

MEMORANDUM

To: Graduate Curriculum Committee
From: Mike Price, Executive Director of the School of Graduate Studies
Date: April 4, 2005
Subject: Minutes for April 6, 2005

The Graduate Curriculum Committee met in Victor 219, Wednesday, April 6, 2005 at 2pm. Those in attendance included: Charles Shipley (visitor for Ray Hashemi), Jane Wong (visitor), Anita Nivens (visitor), Dick Nordquist (visitor), Mark Finlay (visitor), Linda Wright, and Mike Price (chair). Voting was held electronically for the members who could not be present due to extenuating circumstances.

I. The March 2, 2005 minutes were approved

I. The following items from the College of Arts and Sciences were approved:

E. Criminal Justice, Social, & Political Science

1. Create the following 15 courses:

- 1. POLS 5210U/G International Law 3-0-3**
Undergraduate prerequisite: POLS 2100 or HIST 1100 or POLS 1100
Graduate prerequisite: permission of the instructor
Description: International agreements, cases, and customs on the legal relationships between nations. Emphasis on recognition, state succession, jurisdiction, extradition, nationality, treaties, diplomacy, and war.

CURCAT:

Major Department: Criminal Justice, Social, & Political Science

Can course be repeated for additional credit? No

Maximum number of credit hours: 3

Grading Mode: normal

Instruction type: lecture

- 2. POLS 5220U/G Theory of International Relations 3-0-3**
Undergraduate prerequisite: POLS 2100 or HIST 1100 or POLS 1100
Graduate prerequisite: permission of the instructor
Description: Relations among nations with emphasis on political realism vs. idealism in international politics, causes of war, and conflict resolution methods. Covers some of the pertinent global issues of the post-Cold War Era; e.g. nuclear proliferation, multinational corporations, environmental and public health, and human rights protection issues.

CURCAT:

Major Department: Criminal Justice, Social, & Political Science

Can course be repeated for additional credit? No

Maximum number of credit hours: 3

Grading Mode: normal

Instruction type: lecture

3. **POLS 5230U/G Constitutional Law of Foreign Policy 3-0-3**
Undergraduate prerequisite: POLS 2100 or HIST 1100 or POLS 1100
Graduate prerequisite: permission of the instructor
Description: An exploration of the narrow intersection of American constitutional law and foreign policy, powers of the executive and legislative in foreign policy, and issues such as the war, treaty, and spending powers.

CURCAT:

Major Department: Criminal Justice, Social, & Political Science

Can course be repeated for additional credit? No

Maximum number of credit hours: 3

Grading Mode: normal

Instruction type: lecture

4. **POLS 5250U/G International Organizations**
Undergraduate prerequisite: POLS 2100 or HIST 1100 or POLS 1100
Graduate prerequisite: permission of the instructor
Description: Survey of formal international organizations, treaty organizations, regional organizations, trade and development organizations, and international non-governmental organizations with emphasis upon the role of these institutions in the maintenance of peace, trade, and security.

CURCAT:

Major Department: Criminal Justice, Social, & Political Science

Can course be repeated for additional credit? No

Maximum number of credit hours: 3

Grading Mode: normal

Instruction type: lecture

5. **POLS 5260U/G Media and Politics in Latin America 3-0-3**
Undergraduate prerequisite: POLS 2100 or HIST 1100 or POLS 1100
Graduate prerequisite: permission of the instructor
Description: Examination of the role of the media in the political process of Latin America, and the media portrayal of political events in Latin America.

CURCAT:

Major Department: Criminal Justice, Social, & Political Science

Can course be repeated for additional credit? No

Maximum number of credit hours: 3

Grading Mode: normal

Instruction Type: lecture

6. **POLS 5290U/G American Foreign Policy 3-0-3**
Undergraduate prerequisite: POLS 2100 or HIST 1100 or POLS 1100
Graduate prerequisite: permission of the instructor
Description: Analysis of United States foreign policy and factors, both domestic and global, contributing to its formulation.

CURCAT:

Major Department: Criminal Justice, Social, & Political Science

Can course be repeated for additional credit? No

Maximum number of credit hours: 3

Grading Mode: normal

Instruction type: lecture

7. **POLS 5420U/G Politics of the Middle East 3-0-3**
Undergraduate prerequisite: POLS 2100 or HIST 1100 or POLS 1100
Graduate prerequisite: permission of the instructor
Description: A descriptive look at and comparison of the governments of the 24 nation-states that comprise the area generally referred to as the Middle East.

CURCAT:

Major Department: Criminal Justice, Social, & Political Science

Can course be repeated for additional credit? No

Maximum number of credit hours: 3

Grading Mode: normal

Instruction type: lecture

8. **POLS 5430U/G Governments of Africa 3-0-3**
Undergraduate prerequisite: POLS 2100 or HIST 1100 or POLS 1100
Graduate prerequisite: permission of the instructor
Description: Political institutions and governments of Africa and the African Union, ethnic conflict and state disintegration, democratization and post-colonial political economy, post-Apartheid South Africa, public health and environmental issues of the continent.

CURCAT:

Major Department: Criminal Justice, Social, & Political Science

Can course be repeated for additional credit? No

Maximum number of credit hours: 3

Grading Mode: normal

Instruction type: lecture

9. **POLS 5440U/G Latin American Politics 3-0-3**
Undergraduate prerequisite: POLS 2100 or HIST 1100 or POLS 1100
Graduate prerequisite: permission of the instructor
Description: Examination of cultural traditions, economic institutions and problems, efforts to strengthen and deepen the recent transitions to democracy, and civil-military relations in post-authorization Latin America.

CURCAT:

Major Department: Criminal Justice, Social, & Political Science

Can course be repeated for additional credit? No

Maximum number of credit hours: 3

Grading Mode: normal

Instruction type: lecture

10. **POLS/SOCI 5450U/G Political Sociology of Nationalism 3-0-3**

Graduate prerequisite: permission of the instructor
Description: Various theories of nationalism and their social, historical, economic, and cultural contexts. Cultural, ethnic, and national identity and conflict are the focus. Ethnic, religious, civic, economic, and anti-colonial nationalism are examined in a global perspective.

CURCAT:

Major Department: Criminal Justice, Social, & Political Science

Can course be repeated for additional credit? No

Maximum number of credit hours: 3

Grading Mode: normal

Instruction type: lecture

11. **POLS 5460U/G Governments of East Asia 3-0-3**

Undergraduate prerequisite: POLS 2100 or HIST 1100 or POLS 1100

Graduate prerequisite: permission of the instructor

Description: Comparative examination of the contemporary political institutions, processes, and ideas of the Peoples Republic of China, Japan, and two Koreas. Emphasis on historical, social, cultural, and contemporary issues.

CURCAT:

Major Department: Criminal Justice, Social, & Political Science

Can course be repeated for additional credit? No

Maximum number of credit hours: 3

Grading Mode: normal

Instruction type: lecture

12. **POLS 5490U/G Political Transformation of the Former Soviet Union 3-0-3**

Undergraduate prerequisite: POLS 2100 or HIST 1100 or POLS 1100

Graduate prerequisite: permission of the instructor

Description: Political change in the former Soviet Union with emphasis on the new direction of the political, economic and social transformation of the regime. Comparison of tsarist autocracy, Soviet totalitarianism, and the contemporary Russian political system.

CURCAT:

Major Department: Criminal Justice, Social, & Political Science

Can course be repeated for additional credit? No

Maximum number of credit hours: 3

Grading Mode: normal

Instruction type: lecture

13. **POLS 5510U/G Third World National Security 3-0-3**

Undergraduate prerequisite: POLS 2100 or HIST 1100 or POLS 1100

Graduate prerequisite: permission of the instructor

Description: Examination of the role, behavior and perspective of Third World nations in the international system, including ethnic conflicts, war, and their search for stability within a chaotic world.

CURCAT:

Major Department: Criminal Justice, Social, & Political Science
Can course be repeated for additional credit? No
Maximum number of credit hours: 3
Grading Mode: normal
Instruction type: lecture

14. **POLS 5560U/G Comparative Foreign Policy 3-0-3**
Undergraduate prerequisite: POLS 2100 or HIST 1100 or POLS 1150
Graduate prerequisite: permission of the instructor
Description: Examination of various theories of state type and foreign policy behavior and evaluation of such theories in foreign policy analysis.

CURCAT:

Major Department: Criminal Justice, Social, & Political Science
Can course be repeated for additional credit? No
Maximum number of credit hours: 3
Grading Mode: normal
Instruction type: lecture

Rationale: To align the Political Science curriculum with the MALPS program and to bring POLS curriculum in line with national programs.

Effective Term: Fall 2005

15. **POLS 5280U/G Seminar in Global Politics 3-0-3**
Undergraduate prerequisite: POLS1101 and 2100
Graduate prerequisite: permission of the instructor
Description: Political structures and leadership strategies in a postmodern world. Topics will include issues covering the European Union, political transitions in the Middle East and Africa, Latin America, and Southeast Asia.

Rationale: To provide students with instruction to the latest political science literature in world politics and on the political interconnectedness of national governments.

Effective Term: Fall 2005

CURCAT:

Major Department: Criminal Justice, Social, & Political Science
Can course be repeated for additional credit? No
Maximum number of credit hours: 3
Grading Mode: normal
Instruction type: lecture

2. Change the title of the following course:

POLS 5533U/G ~~Contemporary Political Thought~~
Twentieth Century Ideologies 3-0-3

Rationale: To reflect contemporary political development in a globalized political and economic world.

3. Modify the International Studies Track of the Master of Liberal and Professional Studies program:

International Studies (12 hours)

ECON 5200G	International Trade
ECON 5340	International Finance
HIST 5100G	Topics in Latin American History
HIST 5200G	Topics in African History
HIST 5250G	Topics in Asian History
HIST 5300G	History of Russian/Soviet Foreign Policy
POLS 5130G	Political Terrorism
POLS 5210G	International Law
POLS 5220G	International Relations Theory
POLS 5230G	Constitutional Law of Foreign Policy
POLS 5250G	International Organizations
POLS 5260G	Media and Politics in Latin America
POLS 5280G	Seminar in Global Politics
POLS 5290G	American Foreign Policy
POLS 5420G	Politics of the Middle East
POLS 5430G	Governments of Africa
POLS 5440G	Latin American Politics
SOCI/POLS 5450G	Political Sociology of Nationalism
POLS 5460G	Governments of East Asia
POLS 5490G	Political Transformation of the Former Soviet Union
POLS 5510G	Third World National Security
POLS 5535G	Public Leadership and Ethics in Theory and Practice
POLS 5560G	Comparative Foreign Policy
POLS 5720G	Intelligence and National Security Policy

Rationale: To prepare students for positions in private organizations and public service.

Effective Term: Fall 2005

J. Psychology

1. Add a prerequisite to the following course:

PSYC 5750U/G Psychology of Aging 3-0-3

Prerequisite: PSYC 1101

Rationale: The prerequisite was not explicitly listed in the current catalog, but the department had intended PSYC 1101 to be a prerequisite for all upper level psychology courses.

II. The following item from the College of Health Professions was approved:

D. Nursing

1. Add NURS 7740 pre and corequisites

Prerequisite: ~~none~~ **NURS 7741 Prerequisite and NURS 7767 Prerequisite or Corequisite**

Rationale: NURS 7740 (Advanced Health Assessment) focuses on comprehensive health assessments that include pathophysiologic findings. NURS 7741 (Pathophysiology for

Advanced Nursing Practice) gives students the basis for recognition and understanding of these pathophysiologic findings. NURS 7767 (Pharmacotherapeutic Interventions for Advanced Nursing Practice) provides pharmacologic information, which students will need to employ in the clinical practice for NURS 7740.
Effective Term: Fall 2005

IV. The following items from the School of Computing were approved:

1. Change the following course title:

CSCI 5820U/G ~~Artificial Intelligence~~ Machine Learning

Pattern matching and classification with an emphasis on developing applications using diverse machine learning methods, including decision trees, neural networks, clustering, and hidden Markov models. Includes a major project encompassing some or all of these concepts. Essential background for this course is covered in CSCI 2410.

Rationale: This course covers the topics recommended by the computer science accreditation entity, ABET/CAC, for machine learning.

Effective Term: Summer 2005

2. Create the following four courses:

a. **CSCI 5825U/G Artificial Intelligence (3-0-3)**

An introduction to machine intelligence, problem solving paradigms, search in state spaces, inference methods, expert systems, game trees, natural language understanding, intelligent agents, multi-agent systems, robotics, and logic and theorem proving. Essential background for this course is covered in CSCI 3330.

Rationale: This course covers the topics recommended by the computer science accreditation entity, ABET/CAC, for artificial intelligence.

Effective Term: Spring 2005

CURCAT:

Major Department: Computer Science

Can course be repeated for additional credit? No

Maximum Number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Lecture

b. **CSCI 5835U/G Graphics Rendering Principles 3-0-3**

Fundamentals of rendering algorithms, modern graphics architectures, and the mapping between the two. Detailed discussion of color, transformation, rasterization, lighting, texture mapping, shading, shadowing, and blending algorithms. Review of non real-time as well as non photo-realistic methods. Multiple projects encompassing a number of the discussed approaches. Essential background for this course is covered in CSCI 2490 and MATH 2160.

Rationale: The course provides fundamental knowledge of modern graphics hardware and low-level algorithms.

Effective Term: Summer 2005

CURCAT:

Major Department: Computer Science

Can course be repeated for additional credit? No

Maximum Number of Credit Hours: 3

Grading Mode: normal

Instruction Type: lecture

c. **CSCI 6999 Independent Study** **V-V- (1-3)**

Prerequisite: ~~Consent~~ **Permission** of the instructor.

In depth study of a specific issue in computer science that is not presented through regular courses.

Rationale: The course enables graduate students to study ~~the current computer science research.~~ **specific issues in computer science that are not present in required courses.**

Effective Term: Spring 2005

CURCAT:

Major Department: Computer Science

Can course be repeated for additional credit? Yes

Maximum Number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Directed study

d. **CSCI 5735U/G** **Data Mining** **3-0-3**

Study of data mining functionalities including characterization and discrimination, classification and prediction, cluster analysis, association analysis, outlier analysis, evolution analysis; data mining system architectures; data mining query languages; and OLAP technology for data mining. Multiple projects encompassing a number of the discussed concepts. Essential background for this course is covered in CSCI 3720.

Rationale: The course covers a field of study that is in demand by industry, business, and biosciences.

Effective Term: Spring 2005

CURCAT:

Major Department: Computer Science

Can course be repeated for additional credit? No

Maximum Number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Lecture

3. Change the following two course descriptions:

- a. CSCI 5830U/G Computer Graphics 3-0-3

Introduction to computer graphics **programming**. Topics include ~~hardware and software, algorithms for computer graphics programming, windows, clipping, two and three dimensional transformations, hidden line and hidden surface removal, graphics standards for hardware and software systems.~~ **graphics programming standards, two- and three-dimensional rendering pipelines, geometric models (including primitives, fonts, curves, and surfaces), affine transformations, orthogonal and perspective views, shading and lighting models, images and texture mapping, interactions and animations.** Major project encompassing some or all of these concepts. Essential background for this course is covered in CSCI 2490 and MATH 2160.

Rationale: The additional prerequisite is necessary because of the substantial mathematical content in a computer graphics course. The description is modified to include topics more relevant to recent graphics programming environments and to realign the topics with the newly created course CSCI 5835.

Effective Term: Summer 2005

- b. **CSCI 5322U/G Advanced Software Engineering**
Advanced software engineering principles, including software processes and methodologies, CASE tools, software metrics, software quality assurance, reusability and reengineering, and future trends. ~~A~~ Major project encompassing some or all of these concepts. Essential background material for this course is covered in CSCI 3321 (Software Engineering) **and CSCI 3720 (Database Systems)** or equivalents.

Rationale: This will enable students to design projects using databases.

Effective Term: Summer 2005

4. Delete the following 2 courses:

- a. **CSCI 7100 Parallel and Distributed Computing 3-0-3**

Rationale: The course was changed to CSCI 5210.

- b. **CSCI 7700 Computer Security 3-0-3**

Rationale: The course was changed to CSCI 5700.

5. Modifications in Program of Study:

A. Core Required Course (3 semester hours)

CSCI 6100 TECHNICAL WRITING 3-0-3

B. Foundation Courses (maximum 12 semester hours)

CSCI 5100G OBJECT-ORIENTED PROGRAMMING	3-0-3	
CSCI 5210G PARALLEL COMPUTING HIGH PERFORMANCE COMPUTING		3-0-3
CSCI 5220G COMPUTER NETWORKS DATA COMMUNICATIONS AND NETWORKS		3-0-3
CSCI 5322G ADVANCED SOFTWARE ENGINEERING	3-0-3	

CSCI 5342G ADVANCED OPERATING SYSTEMS	3-0-3
CSCI 5343G SYSTEMS PROGRAMMING UNDER UNIX	3-0-3
CSCI 5350G COMPILER THEORY	3-0-3
CSCI 5370G HANDHELD AND UBIQUITOUS COMPUTING	3-0-3
CSCI 5410G ANALYSIS OF ALGORITHMS	3-0-3
CSCI 5360G EMBEDDED SYSTEMS PROGRAMMING	3-0-3
CSCI 5520G RAPID JAVA DEVELOPMENT	3-0-3
CSCI 5610G NUMERICAL ANALYSIS	3-0-3
CSCI 5700G COMPUTER SECURITY	3-0-3
CSCI 5720G ADVANCED DATABASE SYSTEMS	3-0-3
CSCI 5735G DATA MINING	3-0-3
CSCI 5820G ARTIFICIAL INTELLIGENCE MACHINE LEARNING	3-0-3
CSCI 5825G ARTIFICIAL INTELLIGENCE	3-0-3
CSCI 5830G GRAPHICS COMPUTER GRAPHICS	3-0-3
CSCI 5835G GRAPHICS RENDERING PRINCIPLES	3-0-3

Respectfully Submitted,

Chris Hansen