



Undergraduate Course Changes effective for the 2009-2010 Academic Year

This list of course additions, changes, and deletions has been approved by the University Senate as of January 14, 2009.

This list is typically updated monthly from November through May. Last updated 1/23/09.

Undergraduate Course Changes effective for the 2009-2010 Academic Year

I. Courses Changed

College of Arts & Sciences

From: ANT 462/662/WSP/HTW 462 Culture and Reproductive Health and Medicine

To: ANT/HTW 462/662/WGS 462 [HTW dble # / pfx change]

From: BIO 123 General Biology (4)

Fundamental characteristics of life from the molecular level to the ecological community. General principles applicable to many forms of life. One lecture, one discussion period, and four hours of individualized instruction, including laboratory.

To: BIO 123 General Biology II (3) [title./credit;/descr change]

Second in two-course sequence. Fundamental characteristics of life from the molecular level to the ecological community. General principles applicable to many forms of life. One lecture, two recitation periods per week. Optional laboratory offered as BIO 124.

From: CHE 412/612 Metals in Medicine

Bonding, stereochemistry, and properties of metallo-drugs and diagnostic agents. Topics in clued platinum compounds for treating cancer, gadolinium and technetium in biomedical imaging, and porphyrins in photo-dynamic therapy. Laboratory experiments emphasize the main topics covered in lecture. Additional work required of graduate students.

To: [descr. change only]

Delete underlined.

From: CSD 325 Fundamentals of Hearing Science

To: [Preq. added]

Preq: CSD 212 or permission of instructor.

From: CSD 345/645 Fundamentals of Speech Science

To: [Preq. added]

Preq: CSD 315/615, CSD 316/616 or permission of instructor.

From: CSD 427/625 Articulation Disorders

Overview of normal articulation and development. Characteristics and description of articulation disorders. Incidence, etiology, related factors. Differences versus disorders. Principles of assessment, types of diagnostic instruments. Elements involved in therapy, various approaches to remediation. A course in phonetics is required.

To: [descr. change/preq. added]

[Delete underlined] Preq: CSD 316/616 or equivalent.

From: CSD 509 Neural Processes of Speech and Language

Neuroanatomical and neurophysiological aspects of speech and language. Role of central and peripheral nervous system in normal speech and language activities.

To: CSD 409/609 Cognitive Neuroscience of Speech and Language

Add to description: Additional work required of graduate students.

From: CSD 511 Cultural and Linguistic Issues in Communication Sciences and Disorders

Discussion of linguistic and cultural variation and comparisons of language acquisition and child socialization across cultures. The assessment and treatment of communication disorders in individuals from culturally and linguistically diverse groups. Preq: CSD 316/616.

To: CSD 437/636 [#/#descr/preq. change]

Add to description: Additional work required of graduate students.

From: CSD 518 Feeding and Swallowing Disorders

Review of the normal swallowing process from infancy to the elderly. Description of swallowing disorders associated with numerous medical conditions; discussion of evaluation procedures and management methods from indirect/direct therapy procedures to medical intervention.

Preq: CSD 315/615/, CSD 509 or p.o.i.

To: CSD 618 Dysphagia [#/#title/descr/ change]

Anatomy and physiology of normal and disordered swallowing. Description of swallowing disorders associated with numerous medical conditions. Assessment and treatment of swallowing disorders in adults and children. Preq: CSD 315/615, CSD 409/609 or p.o.i.

From: CSD 523 Development of Speech and Language

To: CSD 422/622 [Double #/#descr. change]

Add to description: Additional work required of graduate students.

From: CSD 525 Introduction to Stuttering

To: CSD 425/625 Stuttering [Double #/title/descr. change]

Add to description: Additional work required of graduate students.

From: CSD 538 Technology and Rehabilitation for Hearing Loss

Preq: CSD 325, 561.

To: CSD 439/639 [Double #/descr/preq. change]

Additional work required of graduate students. Preq: CSD 325, CSD 429/629.

From: CSD 545 Augmentative and Alternative Communication Systems

To: CSD 446/646 [Double #/descr. change]

Additional work required of graduate students.

From: CSD 551 Clinical Methods in Speech-Language Pathology

To: CSD 451/651 [Double # / descr. change]

Add to description: Additional work required of graduate students.

From: CSD 561 Basic Clinical Audiology

To: CSD 429/629 Basic Clinical Audiology [# / descr. change]

Add to description: Additional work required of graduate students.

From: CSD 562 Early Assessment and Intervention with Hearing-Impaired Children

To: CSD 449/649 Early Assessment and Intervention with Hearing-Impaired Children
[#/descr. change]

Add to description: Additional work required of graduate students.

From: CSD 565 Voice Disorder

Characteristics, assessment, remediation of voice difficulties in children and adults.
Anatomy and physiology of vocal mechanism, functional dysphonias, ventricular
phonation, spastic dysphonia, vocal-fold paralysis, resonance disorders, and
laryngectomy. Prevention of phonation disorders.
Preq: CSD 315, CSD 345 or equivalent.

To: CSD 456/657 Voice Disorders [# / descr / preq. change]

Characteristics, assessment, remediation of voice difficulties in children and adults.
Anatomy and physiology of vocal mechanism, functional dysphonias, organic
dysphonias, neurological dysphonias, resonance disorders and laryngectomy. Prevention

of phonation disorders. Additional work required of graduate students. Preq: CSD 315/615, CSD 345/645 or equivalent.

From: CSD 577 Speech-Language Pathology in School Settings

Preq: CSD 551 or permission of instructor.

To: CSD 477/677 Speech-Language Pathology in School Settings [#/#/descr/preq. change]

Add to description: Additional work required of graduate students. Preq: CSD 451/651 or p.o.i.

From: CSD 585 Auditory Anatomy and Physiology

Preq: CSD 315 or equivalent.

To: CSD 658 [#/#/preq. change]

Preq: CSD 315/615 or equivalent.

The following courses have prerequisite changes only:

Course No. & Title	Current Preq.	New Preq./Coreq.
ECN 301 Intermediate Microeconomics	ECN 101 or 203 or 109	ECN 203
ECN 302 Intermediate Macroeconomics	ECN 101 or 203 or 109	ECN 203
ECN 311 Intermediate Mathematical Microeconomics	ECN 101 or 203 and MAT 284 or 285 or 295 or ECN 109	ECN 203 and MAT 284 or 285 or 295.
ECN 365 Economics of Health and Medical Care	ECN 101 or 203 or 109	ECN 203
ECN 373 Industrial Organization and Policy	ECN 101 or 203 or 109	ECN 203
ECN 358 Economics of US Poverty and Discrimination	ECN 101 or 203 or 109	ECN 203
ECN 365 The World Economy	ECN 101 or 203 or 109	ECN 203
ENG 825, 826 Adv Seminar in Critical Theory	ENG 825, 631, 641 or permission of instructor	ENG 825, 631 or permission of instructor
GOL 342/542 Geomorphology	GOL 101 or 242	GOL 101 or 106
GOL 417/617 Geochemistry	Preq. for GOL 477 : GOL 314; CHE 107, 117. Prereq for GOL 677 : GOL 418, 517, or equivalents	Preq for GOL 417 : GOL 314; CHE 107, 117. Preq for GOL 617 GOL 418, 517, or equivalents
PSC 302 Environmental Politics & Policy	None	PSC 121
FSC 444/644 Forensic Chemical Analysis	CHE 113 or 116/117	CHE 116 or 119; CHE 117 or 139
LIN 591 Second Language Acquisition	None	LIN 301 or 601 or p.o.i

PSY 472 Laboratory in Social Psychology	PSY 252, 274 or equivalent	PSY 252, 274, or equivalent; PSY 471 or Coreq: PSY 471.
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From: GOL 409 Honors in Geology (1-6)

Special investigative work to introduce e methods and techniques of research. Open only to seniors or students with 3.0 or higher GPA. Candidates for honors in geology must complete a satisfactory thesis and pass a comprehensive oral examination on geology and the thesis. Permission of department by petition.

To: EAR 409 Senior Thesis in Earth Science (3-6)

Independent, hypothesis-driven research involving investigative tools and techniques in the Earth Sciences. Students must submit a written thesis to the department and give a public seminar. Written approval by a faculty supervisor and permission of the department is required. Open only to senior in B. A. and B.S. programs.

From: FIA 308 Italian Sculpture Through the Ages

To: Italian Sculpture Interpreted [title change]

From: FIA 413 Late Medieval Art and the Black Death

To: The Black Death and Medieval Art: Catastrophes and Cultural Change [title change]

From: FIA 496 Senior Project: Music History and Cultures

Supervised independent research culminating in a large-scale project demonstrating fluency with musical research and writing. Music History and Culture majors only.

To: Distinction Project in Music History and Cultures [title/descr. change]

Supervised independent research culminating in a large-scale project demonstrating fluency with musical research and writing to fulfill partial requirements for Distinction in the Music and History Culture Program. Candidates for distinction in the Music History and Culture major only.

From: FIA 503 Botticelli and His Age

To: Botticelli: Analysis in Depth [title change]

From: GEO 386 Quantitative Geographic Analysis (4)

Preq: STT 101 and MAX 201 recommended or p.o.i.

To: GEO 386 Quantitative Geographic Analysis (3) [credit/preq. change]

Preq: STT 101, MAT 121, MAT 183 and MAT 221 or equivalent recommended, or p.o.i.

From: HEB/JSP 301 Advanced Hebrew

To: Advanced Hebrew I [title change]

From: HST 341/PSC 329 Modern Presidency

To: Modern American Presidency [title change]

From: LIN 421/621 Methodology of Teaching English to Speakers of Other Languages

Topics include the grammar, sound system, lexis, and pragmatic use of English; how various skills are taught; individual differences and learning styles; history and theories of language teaching. Additional work required of graduate students. Permission of instructor.

To: LIN 421/621 Introduction to Methodology of Teaching English to Speakers of Other Languages

Topics include history and theories of language teaching; the teaching of content (grammar, sound system, lexis, and pragmatics) and skills; and assessment. Additional work required of graduate students.

Preq: LIN 301/601 or p.o.i.

From: LIN 422/622 Advanced Methods of Teaching English as a Second Language

Topics include curriculum development; computer assisted language learning; testing, materials, program administration, and evaluation; and professional development. Students observe classes and do a final project integrating various areas. Additional work required of graduate students.

To: LIN 422/622 Advanced Methods of Teaching English to Speakers of Other Languages

Topics include curriculum development, technology in language learning, global dialects, individual differences, second language acquisition, and professional development. Students complete a practicum. Additional work required of graduate students.

From: PHI/WSP 297 Philosophy of Feminism

Philosophical analysis of feminist theory from Simone de Beauvoir to present. Feminist theories about human nature, gender, relations *between* gender, race, and class, and causes of and remedy for women's subordinate status.

To: PHI/WGS 297 Philosophy of Feminism [prefix/descr. change]

[~~Underlined.~~] [Replace italicized text with: ...among.....]

From: PHI 311 Descartes, Leibniz, and Spinoza

Some major rationalist theories of mind, matter, God, and freedom put forth in the time of the birth of modern science.

To: PHI 311 The Rationalists [title/descr. change]

Theories of mind, matter, God and freedom put forth by rationalist philosophers such as Descartes, Spinoza, Malebranche, and Leibniz.

From: PHI 313 British Philosophy

Major philosophical writings of Locke, Berkeley and Hume. General development of British philosophy.

To: [descr. change]

Major philosophical writings of the British empiricists, including Locke, Berkeley, and Hume, with a focus on their theories of knowledge, mind, and matter.

From: PHI 393 Contemporary Ethics

Selected problems and trends in 20th century ethical philosophy. Considerations of such problems as these: Are ethical beliefs relative? Are there rational foundations for ethical belief? What do such terms as “good”, “right”, and “just” mean?

To: [descr. change]

Selected problems and trends in recent ethical philosophy. Consideration of such questions as these: What is the nature of moral disagreement? What makes a person’s life go well? What makes an action morally right?

From: PHI 551 Symbolic Logic

Propositional calculus, predicate calculus with identity. Techniques for the symbolization and analysis of arguments. Important results concerning independence, consistency, completeness, decidability.

To: PHI 551 Mathematical Logic [title/descr. change]

Predicate calculus with identity, its relationship to mathematics and to computer theory. Important results concerning independence, consistency, completeness, decidability and computability.

From: PHY 523 Intermediate Mechanics II

Moving coordinate systems, systems of particles, mechanics of rigid bodies, normal modes of vibrating systems. Preq: PHY 322.

To: PHY 523 Advanced Mechanics [title/preq. change]

Moving coordinate systems, systems of particles, mechanics of rigid bodies, normal modes of vibrating systems. Preq: PHY 360.

From: REL/JSP 302 The Temple and the Dead Sea Scrolls

To: REL/JSP 307 [# change only]

From: WSP 101 Introduction to Women's Studies

To: WGS 101 Introduction to Women's and Gender Studies [prefix/title change]

From: WSP 310 Feminist Inquiries

Develops competency in interdisciplinary approaches to feminist theories, methodologies, and epistemologies. Offers a comparative approach to feminist research. Students read, critique, and write from feminist perspectives and interrogate what it means to ask feminist questions.

To: WGS 310 Feminist Inquiries [prefix/descr. change]

Replace underlined with: Examine...

From: WSP 410 Senior Capstone Experience

Students create a synthesis of their studies in the field and deepen their skills in women's studies research, culminating in an independent project that can be a research project, creative work, activism project, or internship.

To: WGS 410 Advanced Studies in Feminist Thought [Prefix/title/descr. change]

Topics in women's and gender studies. May be repeated once for credit when topics vary.

The Department of Earth Sciences' course designator changes from GOL to EAR. Below is a chart of all active GOL courses and the prerequisites that will change to EAR, effective fall 2009:

CURRENT COURSE #	COURSE TITLE	PRE-REQS
GOL 101	Dynamic Earth	
GOL 102	History of Earth and Life	GOL 101, 203
GOL 105	Earth Science	
GOL 106	Environmental Geology	GOL 101 or 105
GOL 117	Oceanography	GOL 101 or 203
GOL 180	International Course	
GOL 190	Independent Study*	
GOL 200	Selected Topics	
GOL 203	Earth Systems Science	
GOL 240	Environmental Geology*	
GOL 270	Experience Credit	

GOL 280	International Course	
GOL 290	Independent Study	
GOL 296	Oceanography & Limnology*	
GOL 300	Selected Topics	
GOL 309	Honors Tutorial in Geology	
GOL 314	Mineralogy	GOL 101,or105,or203
GOL 325	Introduction to Paleobiology	GOL 101 or 102
GOL 333	Structural Geology	GOL 101
GOL 342/542	Geomorphology	GOL 101 or 242
GOL 345/545	Global Change: The Geologic Record	GOL 101
GOL 377	Introduction to Geochemistry	
GOL 380	International Course	
GOL 400	Selected Topics	
GOL 417/617	Geochemistry	Prereq for GOL 314; CHE 107, 117. Prereq for GOL 677: GOL 418, 517, GOL 478/678
GOL 418	Petrology	GOL314
GOL 428	Capstone Seminar: Environmental Science	
GOL 430/630	Topics in Thermochronology and Tectonics	GOL 431/631, GOL 444/644
GOL 431/631	Plate Tectonics	Preq. for GOL 431: GOL333; Preq. for GOL 631: GOL 333; MAT 296; PHY 212; CIS/NAS 197
GOL 432/632	Seafloor Spreading and Oceanic Lithosphere	GOL 333, 314
GOL 435/635	Geophysics	MAT 296; PHY 212; GOL 314
GOL 444/644	Thermochronology	GOL 418 and 431/631
GOL 478/678	Isotope Geology	GOL 417, 617
GOL 470	Experience Credit	
GOL 480	International Course*	
GOL485/BIO485	Societal Approaches to Environmental Problem Solving I	ESP 255
GOL 490	Independent Study	
GOL 499	Honors Capstone Project	
GOL500	Selected Topics*	
GOL507	Experimental Skills*	
GOL 510	Paleolimnology	none
GOL 517	Sedimentary Processes & Systems	GOL 314
GOL 541	Hydrogeology	GOL 101, MAT 296, PHY 212
GOL544	Quaternary Environmental & Climate	GOL542

	Change	
GOL 555	Environmental Geophysics	PHY 211, 212 or equiv. MAT 295, 296 or equiv.
GOL 590	Independent Study	

The Department of Women's and Genders Studies' designator changes from WSP to WGS. Below is a chart of all active WGS courses that will change to WGS , effective fall 2009:

CURRENT COURSE	CROSS LIST	COURSE TITLE
WSP 101		Introduction to Women's Studies
WSP 192	ETS 192	Gender and Literary Texts
WSP 201	ANT 201	Transnational Feminist Studies
WSP 230	SOC 230	Intergroup Dialogue
WSP 248	SOC 248	Ethnic Inequalities and Intergroup relations
WSP 258	ECN 258	Poverty and Discrimination in America
WSP 281	SOC 281	Sociology of Families
WSP 297	PHI 297	Philosophy of Feminism
WSP 301		Feminist Theory
WSP 303	AAS 303	Black Women Writers
WSP 305	SOC 305	Sociology of Sex and Gender
WSP 307	AAS 307	African Women Writers
WSP 309	AAS 309/SOC 309	Race, Gender, and Sexuality in the African Diaspora
WSP 310		Topics in Women's & Gender Studies
WSP 317	SOC 319	Qualitative Methods in Sociology
WSP 318	PSC 328	American Social Movements
WSP 319	PSC 319	Gender and Politics
WSP 324	ANT 324/SAS 324	Modern South Asian Cultures
WSP 325	ECN 325	Economics and Gender
WSP 326	SWK 326	Persons in Social Contexts
WSP 327	ANT 326	Africa Through the Novel
WSP 328	SWK 328	Human Diversity in Social Contexts
WSP 329	PSY 329	Biophysical Perspectives on Women's Health
WSP 331	HST 331	Women in American History
WSP 335	HST 335	American Social and Cultural History
WSP 340	PSY 340	Sex Differences: Origins and Implications
WSP 341	REL 341/HST 387	Women, Abolition, and Religion in 19 th Century America
WSP 342	HST 340	Women in America: 17 th Century to the Civil War
WSP 349	HST 349	Women in America: Civil War to Present
WSP 350	HST 350	Women, the Family, and Sexuality in Europe to 1600
WSP 351	HST 351	Women, the Family, and Sexuality in Europe Since 1600
WSP 355	SOC 355	Sociology of Health and Illness
WSP 356	PSC 356	Political Conflict
WSP 358	ECN 358	Economics of U.S. Poverty and Discrimination
WSP 360	ETS 360	Reading Gender and Sexualities
WSP 362	CFE 362/DSP 362	Youth, Schooling and Popular culture
WSP 363	ANT 363	Anthropology of Family Life
WSP 364	SOC 364	Aging and Society
WSP 365		Negotiating Difference: Coming of Age Narratives
WSP 367	ANT 367/GEO 367	Gender in a Globalizing World

WSP 371	HST 371/LAS 371	Gender in Latin American History
WSP 373	ANT 373	Magic and Religion
WSP 374	PSC 374	Law and Society
WSP 384	REL 384/SAS 384	Goddesses, Women, and Power in Hinduism
WSP 389	HST 389/QSX 389	LGBT Experience in American History
WSP 400		Selected Topics
WSP 403	AAS 403	African and Caribbean Women Writers
WSP 404	ANT 404/HST 404	Family and Gender in Renaissance Italy
WSP 408	ANT 408/HST 408	The Practice of Eros: A History of Sexuality in Europe (1400-1800)
WSP 409	ANT 409/HST 409 REL 409	A History of Witchcraft
WSP 410		Advanced Studies in Feminist Thought
WSP 412	FRE 412	French Women Writers
WSP 413	PHI 413/PSC 413	Identity and Difference
WSP 414	CRS 414	Communication and Gender
WSP 425	SOC 425	Feminist Organizations
WSP 427	AAS 427	New York city: Black Women Domestic Workers
WSP 433	SOC 433	Race, Class, and Gender
WSP 435	SOC 435	Sexual Politics
WSP 438	QSX 438	Trans Genders and Sexualities
WSP 441	PHI 441	Topics in Feminist Philosophy
WSP 444	CFE 444	Schooling and Diversity
WSP 445	AAS 445/SOC 445	The Caribbean: Sex Workers, Transnational Capital, and Tourism
WSP 447	QSX 447	Sexualities and Genders in World Teen Culture
WSP 449	FIA 449	Women in Art
WSP 451	HST 451	Picturing Sex: Representation, Gender and Identity in Renaissance and Baroque Italy
WSP 454	HST 454/SOC 454	Family and Gender in Contemporary Italy
WSP 455	ANT 455	Culture and AIDS
WSP 456	QSX 456/SOC 456	LGBT Studies in Sociology
WSP 457	HST 457/SOC 457	Gender, Politics, Society in Europe (1400-1800)
WSP 462	ANT 462/HTW 462	Culture and Reproductive Health and Medicine
WSP 465	REL 465/SAS 465	Gender in Islam
WSP 472	ANT 472/LIN 472	Language, Culture, and Society
WSP 475	LAS 475/SPA 475	Women, Myth, and Nation in Latin American Literature
WSP 474	ANT 474	Culture and Folklore
WSP 478	ANT 478	Language and Gender
WSP 490		Independent Study
WSP 492	SOC 492	Work and Inequality
WSP 494	FIA 494	Music and Gender
WSP 512	AAS 512	African American Women's History
WSP 513	AAS 513	Toni Morrison: Black Book Seminar
WSP 553	ANT 553	Women and Social Change

WSP 576	GEO 576	Gender, Place, and Space
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College of Engineering and Computer Science

From: CEN 231 Introduction to chemical Engineering principles

Material balances for single units and multistage processes. Recycle and bypass streams. Gas laws. Vaporization and condensation processes. Energy balances including latent and sensible heat effects, heat of reaction..

To: CEN/BEN231 Mass and Energy Balances [Cross-listing/title/descr. change]

Material balances for single units and multistage processes. Recycle and bypass streams. Gas laws. Energy balances including latent and sensible heat effects, heat of reaction. Applications to biomedical processes.

From: CEN 333 Chemical Engineering Fluid Mechanics

To: CEN/BEN 333 Fluid Transport [Cross-listing/title change]

From: CEN 341/MAE 355 Fundamentals of Heat & Mass Transfer

To: CEN/BEN 341/MAE 355 [Added BEN cross-list]

From: BEN 465/665 Skeleto-Muscular Biomechanics (4)

Integration in normal system function. Analytical and testing techniques. Prosthetic design. Ergonomic issues (lectures and laboratories). Preq: BEN 305 or equivalent; ECS 221; MAT 485 or p.o.i.

To: BEN 465/665 Biomechanics (3) [title/credit/descr/preq changes]

Functions and mechanical properties of cells and tissues, how those cells and tissues combine to form structures, the properties and behaviors of those structures, and biomechanical techniques to analyze the structures and individual components. Preq: BEN 365, ECS 221, and MAT 485.

From: BEN 481 Bioinstrumentation: Fundamentals and Laboratory I (4)

Measurement and analysis of instrument performance in the time and frequency domain. Preamplifiers and operational amplifiers, analog, and digital signal processing; sensors, transducers, and sources of biopotentials; biopotential electrodes. Labview and virtual instrumentation. Lectures and laboratory. Preq: BEN 305, ELE 351, and CSE 261.

To: BEN 481 Bioinstrumentation (3) [title/credit/descr/preq. changes]

Measurement and analysis of biological signals in the time and frequency domain. Operational amplifiers, analog, and digital signal processing; sensors and sources of

biopotentials; biopotential electrodes. Matlab, Labview and C programming. Preq: BEN 575 and ELE 292.

From: CEN 575 Chemical Process Control

To: CEN/BEN 575 Process Control [Cross-listing/title change]

From: BEN 641 Principles of Tissue Engineering

Cellular and biomaterials principles relevant to tissue engineering, focusing on cellular and tissue organization; regulation of cell behavior; biomaterials for tissue regeneration and material design issues; tissue engineering applications in cardiovascular, neurological, and skeletal-muscular systems. Permission of instructor.

To: BEN 541 [#/descr chngs/preq added]

Cellular and biomaterials principles relevant to tissue engineering, focusing on cellular and tissue organization; regulation of cell behavior; biomaterials for tissue regenerations; tissue engineering applications in cardiovascular, neurological, and musculoskeletal and other organ systems.

Preq: BEN 301 or equivalent.

From: CIE 274 Civil and Environmental Systems (4)

To: (3) [credit change only]

From: CIE 443/643 Transportation Engineering

Planning and design of transportation routes and terminals. Traffic mechanics and geometric design of highway. A research project is required for students taking CIE 643. Permission of instructor.

Coreq: CIE 272 or equivalent.

To: CIE 443/643 Transportation Engineering [descr/preq change]

Transportation systems, modes and significance. Traffic engineering fundamental relationships and field studies. Intersection design and control. Geometric design of road alignments. Introduction to transportation planning. Additional work required of graduate students. A research report is required for CIE 643. Preq: MAT 296, PHY 211.

From: CIE 541 Transportation

Planning and designing of transportation routes and terminals; highway, railway, and airway. Traffic mechanics. Students are expected to complete a project. Three lectures and one laboratory a week. Permission of instructor.

To: CIE 443/643 Transportation Engineering (3)

Planning and design of transportation routes and terminals. Traffic mechanics and geometric design of highway. Additional work is required of graduate students. Permission of instructor. Coreq: CIE 272 or equivalent.

From: CIS 428 Introduction to Cryptography

Prereq: CIS 565, MAT 534, or MAT 541.

To: [Prereq. change]

Replace CIS 565 with CIS 477.

From: CIS 473 Logic and Computability Theory

Multiple characterizations of computable partial functions. Universal Machines. Church's thesis. Recursive enumerability. Recursive theorem. Predicate logic and models. completeness and compactness. Decidability and undecidability. Godel's incompleteness theorem.

To: CIS 473 Automata and Computability [title/descr chngs]

Countable and uncountable sets; diagonalization proofs; finite state automata; regular, context-free, context-sensitive, recursive, and r. e. languages; Turing machines; relationships between classes of languages and machines; the halting problem; proof methods for decidability and undecidability.

From: CIS 575 Introduction to Analysis of Algorithms

To: CIS 477 [# change only]

From: CIS 586/CSE 585 Design of Operating Systems

Design and implementation of modern operating systems. Resource management and protection of CPU, memory, and storage. File systems. Input/output. Concurrent process implementation. Process synchronization. Networking. Senior or graduate standing in computer engineering or computer science.

To: CIS/CSE 486 Design of Operating Systems [# /descr. change]

[Delete underlined]

From: CEN 212 Experimental Methods in Chemical Engineering and Bioengineering

Prereq: MAT 296, ECS 102 or 104.

To: CEN/BEN 212 [Cross-list added/prereq change]

Prereq: MAT 296 and ECS 104.

From: MAE 315 Mechanical and Aerospace Engineering Laboratory

Prereq: MAE 341, ECS 325.

To: [Prereq. change/coreq. added]

Prereq: ECS 325. Coreq: MAE 341.

From: MEE 416 Mechanical Engineering Laboratory

Experiments in vibrations, engines and fluid dynamics performed in small groups. Written and oral reports. Preq: MAE 251, 315 421.

To: [descr/preq. changes]

Experiments in air conditioning, refrigeration, and turbomachines performed in small groups. Written and oral reports. Preq: MAE 251, 315.

From: MFE 331 Manufacturing Processes

Fundamentals of foundry and presswork, modern machining processes, nontraditional processes, joining and assembly, mensuration and gauging, integration of manufacturing with other disciplines, design for manufacture, the manufacturing organization, laboratory experience. Preq: MAE 184, ECS 325.

To: [descr/preq. changes]

Fundamentals of casting, forming, machining, joining, assembly, and other manufacturing processes. Measurement and gauging, integration of manufacturing with other disciplines, design for manufacture, the manufacturing organization, laboratory experience. Preq: MAE 184.

From: MFE 429 Modeling and Optimization Techniques

Introduction to operations-research models and techniques. Topics include convex functions, linear programming, network flows, nonlinear models, dynamic programming, heuristics. Markov chains, queuing systems, and simulation. Preq: MAT 331, 397 and MFE 326.

To: MFE 429 System Modeling and Optimization [title/dscr/preq. changes]

Introduction to system modeling and optimization techniques and their applications. Topics include linear programming and its extensions, integer programming, dynamic programming, stochastic modeling, simulation and other system modeling techniques. Preq: MAT 397, 521, or equivalent.

College of Human Ecology

From: NSD 457 Research and Evaluation in Nutrition (2)

To: (3) Credit change only

From: CFS 432 Foundations and Principles of Early Childhood Education (4)

To: (3) [Credit change only]

From: CFS 467 Child and Family in Cross-Cultural Perspectives

To: CFS 367 [# change only]

From: CFS 493 Family Practicum I

Seminar and supervised internship in the community designed to apply theory to practice by developing skills in working with children and families, learning to work within an organization and identifying career goals. Preq: CFS 201.

To: CFS 493 Youth and Family Practicum I [title/descr/preq. changes]

Change underlined to: "...children, youth and families,...". Preq: CFS 201 and 202.

From: CFS 494 Family Practicum II

To: CFS 494 Youth and Family Practicum II [title change]

From: HPM/NSD 115 Food Science I

Principles of food preparation; composition and quality control. Self-instruction lecture and laboratory. Open to students in all schools and colleges.

To: [descr. change]

Explore principles of food science and preparation, including basic physical and chemical properties of food and the relationship to nutrition. Students analyze aspects of food quality and safety and apply concepts to hands-on production.

From: HPM 214 Menu Development (2)

Topics in food service management and hospitality centered on menu development, food event planning, customer service, hospitality principles, standardized recipes and yields, quality assurance, and international and American regional cuisine. Preq: HPM 115, 216. Coreq: HPM 115, 216.

To: HPM 214 Menu Development (3) [credit/descr/preq/coreq chngs]

Topics in food service management and hospitality centered on menu development related to food event planning, customer service, hospitality principles, standardized recipes and yields, quality assurance, and international and American regional cuisine. Preq: HPM/NSD 115, 216. Coreq: HPM/NSD 115, 216.

From: HPM 216 Restaurant Operations

Principles, concepts and application of food preparation, service, supervision and management techniques. Menu planning, production control, budget and event planning. Preq: HPM 115.
Coreq: HPM 115.

To: HPM/NSD 216 Restaurant and Food Service Operations [cross-list added/preq/coreq. chngs]

Preq: HPM/NSD 115. Coreq: HPM/NSD 115.

From: HPM 413 Beverage Management (2)

Purchasing, receiving, storing, issuing, merchandising and controlling wines, spirits and beer in food service operations. Sensory evaluation of spirits and relationship to food. Proof of age for tasting. Senior majors only or p.o.i.

To: HPM 413 Beverage Operations Management (3) [title/credit/descr chngs]

Procurement, issuing, merchandising and controlling wines, spirits, beers, coffees, teas, and non-alcoholic beverages in lodging and food service operations. Sensory evaluation of and relationship to food. Proof of age for tasting. Hospitality Management majors only.

From: HPM 414 Food Service Facilities Planning

Problems, principles, and procedures, including computer-aided design, in planning facility design and equipment layout. Hospitality juniors or seniors or p.o.i.

To: HPM 414 Hospitality Facilities Planning and Design

Principles of facility planning, layout and design for food service, lodging and resort operations. Hospitality Management juniors and seniors or p.o.i.

From: NSD 456 Nutritional Biochemistry (3)

To: (4) [credit change only]

From: NSD 457 Research and Evaluation in Nutrition (2)

To: NSD 457 (3) [credit chng/coreq. added]

Coreq: NSD 456.

From: HTW 318 Alcohol, Other Drugs, Sex and Gambling: Dynamics of Addiction

To: HTW 318/618 [Double Numbered/descr chng]

Add to description: Additional work required of graduate students.

School of Information Studies

From: IST 463 Design and Management of Internet Services

To: IST 263 Web Design and Management [#/title change]

From: IST 555 Enterprise Technologies

To: IST 639 [# change only]

School of Public Communications

From: GRA 217 Introduction to the Graphic Arts

Principles of digital design, composition, computerized layout, typography and imaging applied to advertising, public relations and publication design. Introduction to the computer as layout and design tool for visual communications practice. Concurrent lab required.

To: [description change]

Add to end of first sentence: ...for print and web.

From: GRA 218 Introductory to Graphics Laboratory

Continuation of GRA 217. Students learn Quark, Photoshop and Illustrator.

To: [descr. change]

Continuation of GRA 217. Students learn contemporary applications such as Photoshop, Illustrator and Indesign for print and web.

From: ICC 555 Communicating with Computers

Using computers for interactive, multi-media programs and presentations with emphasis on information and entertainment. Students create individual and group projects using a variety of software and hardware. Preq: NEW 205 or TRF 155 or PRL 205, or p.o.i.

To: ICC 575 Communicating with Computers [#,descr, preq. change]

Using computers for interactive, multimedia programs and presentations with emphasis on information and entertainment. Students create individual projects using a time-based media software such as Flash.

Preq: ICC 565 or p.o.i.

From: MAG 409/MNO 609 Advanced Magazine Editing

Problems and opportunities that magazine editors face each day. A variety of topics ranging from ethics to the repositioning of magazines. Additional work required of graduate students.

To: MAG 409 [descr. change/drop cross-listing]

Problems and opportunities that magazine editors face each day. A variety of topics ranging from ethics to covers, editorial mix, and positioning a magazine.

From: MAG 538 Travel Writing

Preq: NEW 305

To: [Preq. change]

NEW 305 or NEW 617.

From: PHO 302 Principles of Photography II

Extensive experience in location lighting for photojournalism and advertising photography. Fundamentals of color photography in analog and digital technology.

To: [descr. change]

Delete underlined.

From: PHO 405/605 Photojournalism

Principles and practices of photojournalism. Photographing news, features, portraits, and sports. Picture story and essay ideas and production and layout using digital techniques. Location lighting techniques. Marketing practices. Additional work required of graduate students.

To: PHO 405/605 Photojournalism and Multimedia

Principles and practices of photojournalism and multimedia storytelling. Photographing news, features, portraits, and sports. Picture story and essay production using digital, still, video, and sound. Location lighting techniques. Marketing practices. Additional work required of graduate students.

From: PHO 425/625 Picture Editing

Develops newspaper and magazine picture editor's management skills and electronic editing and pagination skills. Communicative qualities of photographs and word picture combinations, how they affect decisions of picture use in publications. Additional work required of graduate students.

To: PHO 425/625 Picture and Multimedia Editing

Develops newspaper and magazine picture editor's management skills for multimedia storytelling. Communicative qualities of images and sound and how they affect decisions of picture use in publications and on the web. Additional work required of graduate students.

College of Visual and Performing Arts

From: APH 441 Art Photography: Advanced

Black and white, color, and variant techniques. Application leading to a personal visual statement demonstrated by a final portfolio.

To: APH 461 Art Photography: BFA Senior Seminar

Students propose and develop their own projects which will be reviewed in individual and group critiques. Working closely with faculty, students, utilize technical, conceptual, and visual tools to evaluate and expand their own work. Preq: APH 362.

Whitman School of Management

From: FIN 751 Financial Controls in Business

Finance and control function within general management framework, and role of controller and treasurer in analysis, profit planning, and control activities. Goals, basic concepts and financial tools of decision-making. Preq: ECN 604, MBC 633, MBC 638 or MAS 653.

To: FIN 751 Corporate Financial Policy and Strategy

Advanced issues in corporate investment decisions, dividend and debt policy, corporate restructuring, risk management, and corporate governance. Preq: ECN 604, MBC 633 and MBC 638.

From: FIN 443 Real Estate Capital Markets

To: RES 443 [prefix change]

From: FIN 462 Real Estate Finance and Investment

Preq: FIN 256.

To: RES 462 [Prefix/preq. change]

Preq: RES 431.

II. Courses Dropped

N/A

III. Courses Inactivated

College of Arts & Sciences

CHE/STS 205 Social and Legal Aspects of Chemistry

ECN 361 Economics of European Integration

IV. Courses Reactivated

College of Arts and Sciences

REL 255 Depth Psychology and Religious Ethics (3)

Theories of human nature and their implications for religion and ethics. Includes narcissism, religious experience, moral conscience, mutuality, and the commandment to love thy neighbor as thyself.

School of Information Studies

IST 502 New Directions in Academic Libraries (1-3)

Present state and future prospects of academic libraries in light of changes in the technology of scholarly communications and in the nature of higher education.

V. New Courses

College of Arts & Sciences

AAS/SOC 413 There Goes the Neighborhood: US Residential Segregation (3)

Chronicles patterns of racial residential segregation in the US by examining the methods that maintain racially distinct neighborhoods. Explores link between segregation and education, social mobility, health, and mortality.

BIO 124 General Biology II Laboratory (1)

Laboratory course associated with BIO 123. Includes inquiry-based exploration and practical application of concepts discussed in BIO 123. One laboratory session per week. Coreq: BIO 123.

BIO 305 Integrative Biology Laboratory (3)

Provides students with early laboratory experience, presenting a quantitative, integrated view of sub-cellular, organismal, and ecosystem/environmental perspectives on biology. Preq: BIO 121 or equivalent.

BIO 315 Everyday Implications of Biological Research (3)

Topics include genetically modified organisms, environmental and energy-source concerns, biomedical advanced leading to enrichment or elongation of lives, or to medico-social/ethical controversies.

BIO 417 Animal Behavior and Evolutionary Biology Laboratory (3)

Focuses on understanding the process of natural selection, with an emphasis on the evolution of adaptive animal behavior. Planned lab and field exercises, independent research projects. Suitable for junior and senior biology majors. Preq: BIO 345 or p.o.i. May be repeated once.

BIO 448 Evolutionary Medicine (3)

Application of evolutionary principles to prevention and treatment of human disease. Evolution of antibiotic

resistance, epidemiology, virulence, population genetics, germ theory of disease, aging, human evolution. Lectures and discussion. Preq: BIO 121, BIO 123.

***EAR 104** Introductory Geology Laboratory (1)

Laboratory course designed for students who took EAR 105 but who need credit for a laboratory course. Equivalent to the lab portion of EAR 101; credit will not be given for both EAR 101 and 104.

Coreq: EAR 105 or p.o.i.

EAR 225 Volcanoes and Earthquakes (3)

Examination of the geologic nature of volcanoes and earthquakes as they are related to plate tectonic activity in the earth. Discussion of related societal hazards. Preq: EAR 101, 105 or an equivalent EAR course.

EAR 419/619 Environmental Aqueous Geochemistry (1)

Fundamentals of aqueous geochemistry in ground water and surface water in the context of carbonate and silicate dissolution, reactions governing metal oxidation and reduction, mixing of waters and isotopic characterization. One year of college chemistry required. Additional work required of graduate students.

EAR 420/620 Contaminant Hydrogeology (1)

Fundamentals of solute transport, major classes of groundwater contamination, remediation strategies, natural attenuation characterization, fingerprinting of contaminant types. One year of college chemistry, one course in physics or hydrology, one course in calculus. Additional work required of graduate students.

EAR 429/629 Topics in Paleobiology (3)

Current research in paleobiology with a topical focus. Subjects might include macroevolution, evolutionary paleoecology, extinctions and radiations, stratigraphic paleontology, etc. EAR 429 by permission of instructor. Additional work required of graduate students. Preq: EAR 325.

EAR 440/640 Watershed Hydrology (3)

Focus on physical hydrology at the catchment scale, including water budgets, precipitation, evaporation, surface runoff, groundwater flow and connections to biogeochemistry. Understanding hydrologic concepts and acquiring and analyzing hydrologic data. Additional work required of graduate students.

EAR 455/655 Geochemical Patterns in the History of Earth and Life (3)

Insights gained from the geochemistry of fossils and sedimentary sequences into the history of the Earth's surface. Emphasis on relationships between the biological world and the physical environment as revealed through stable and radiogenic isotopes and elemental chemistry. EAR 455 by permission of instructor. EAR 377 recommended. Additional work required of graduate students. Preq: EAR 325.

FIA 313 The Mediterranean City: Architecture, Ritual and Power (3)

Examines a series of ritual sites around the Mediterranean basin; architecture, choreography, politics, considering innovation and continuity in the design, use, and abuse of mass spectacle as a tool for social identity. Offered only in Florence.

FIA 414 Fifteenth-Century Italian Art: Inventing the Renaissance (3)

Explores the new developments in a 15th century Italian visual culture that became the defining characteristics of the early Renaissance period. Requires previous course in art history or one course in Renaissance history. Offered only in Florence.

FIA 419 Sixteenth Century Italian Art and Identity (3)

Explores how, during the “High Renaissance”, works of art were commissioned by patrons using art to create their own public identity. Focuses on paintings and sculpture. How artists defined themselves in relation to Leonardo and Michelangelo. Requires previous course in art history or in any aspect of Renaissance history or culture. Offered only in Florence.

FIA/ANT 422 Etruscans and Romans: Ancient Art and Society in Italy (3)

Explores art and society of ancient Italy from ca. 1000 B.C. to A.D. 138, with special emphasis on the early Etruscans through Rome under Hadrian. Requires previous course in art history. Offered only in Florence.

FIA 424 The Gothic Spell (3)

Exploration of the definition, meaning, and appeal of the Gothic through the ages, Gothic being understood as an architectural language, a literary and film genre, and a Pop subculture.

FIA 582 World Music and Film (3)

The global flows of music explored through commercial, ethnographic, documentary, and animated films. How music and musicians outside the Euro-American mainstream have been represented, creatively adopted and recontextualized, and used to construct meaning.

GEO 440 Race and Space (3)

Critical geographic study of race and racism as formative aspects of sociocultural, economic and political processes. Focus on race/racism’s operations across scales, with particular attention to gender, class, culture, colonialism, citizenship, power, and resistance.

GEO 463 Geography of Homelessness (3)

Examines the roots and consequences of homelessness in contemporary cities. Focus on United States and globalization of “American-style” homelessness. Explores role of space and spatial relationships in shaping homeless people’s lives and homeless policy.

GEO 482 Environmental Remote Sensing (3)

Principles and environmental applications of remote sensing. Uses and limitations of remotely-sensed data; typical image processing operations and analyses; laboratory work and individual term project using remotely-sensed imagery.

HEB/JSP 303 Advanced Hebrew II (3)

Continuation of HEB/JSP 301, using more advanced texts. Preq: HEB/JSP 301 or equivalent.

HST 222 History of American Sexuality (3)

Examines sexuality in America from the colonial period to the present, exploring how American views of sex and desire have changed over time.

HST/*WGS 379 Gender and Colonialism (3)

Explores the intersection of gender and race in colonial ideologies, imperial practices and anti-colonial nationalist movements, in the 18th and 19th centuries.

HST 393 East Asia and the Socialist Experience (3)

Examines the adoption of socialism in East Asia. Historical account of how socialist China, Mongolia, North Korea and Vietnam arose, developed, “failed” and responded to globalization in the 20th century.

HST 395 Modern Japan (3)

Examines Japanese society from early-modern times (1600-1868) through modern (1868-1945) and postwar Japan (1945-today). Topics include: urbanization, mass culture and nationalism, popular protest, imperialism and empire, gender, war and occupation and globalization.

HST 397 Modern Korea (3)

Examines political, economic and social history from 1860 until today. Topics include: colonialism, modernity, division, the Korean War, nation-building, nationalism, democratization, North Korean society, inter-Korean affairs, nuclear issues, Korean diaspora and “Korea Wave”.

HUM 403 China; Past, Present and Future (2)

Presemester, two-week field studies seminar taught in Kunming or Xi'an, Beijing, and Shanghai. Introduction to the diversity of cultures and economies within China, overview of social conditions and forces that shape people's lives in the Peoples Republic of China.

HUM 404 “AZAHAR” The Islamic Conquest and the Christian Reconquest (2)

Thirteen day interdisciplinary seminar. Lectures in situ. Artistic, historical, cultural monuments of Cordoba, Sevilla, Granada and Toledo or Salamanca. Theological, philosophical and historical thought as to recreate the artistic and cultural climate of medieval al-Andalus/Spain.

MES 495 Distinction Thesis in Middle East Studies (3)

Thesis in partial fulfillment of the requirements for the Distinction in Middle Eastern Studies Program. Normally in the semester prior to graduation, topic chosen in conjunction with advisor.

***(new prefix) Women's and Gender Studies**

PHI 293 Ethics in Entertainment Media (3)

Great traditions in ethical theory; application to television, film, new media. Role of ethics in program and content development; and in business practices. Ethical issues arising from social networking, globalization, and new trends in the media.

PHY 360 Vibrations, Waves and Optics (3)

Exploration of the rich behavior of vibrating systems. Simple harmonic motion, driven oscillators and resonance, normal modes, Fourier analysis, geometrical optics, diffraction and interference. Preq: PHY 212.

PSC 369 Global Migration (3)

How should local communities, national governments, and international institutions respond to economic migrants and refugees? Are their policies effective? These questions will be explored through historical and contemporary perspectives from around the world.

PSC 385 Rationality and Politics (3)

Introduction to the concept of technical rationality and its role in contemporary political science.

PSC 414 European Identity Seminar (2)

Eleven-day interdisciplinary field studies seminar explores the multi-layered cultural and political identities in contemporary Europe, their overlapping (and at times, contradictory nature), and their effect on political and social developments. Offered in Strasbourg only. May be repeated once for credit.

PSY 383 Laboratory in Health Psychology (3)

Applied study of research questions, techniques, methods, and practices in the field of health psychology.

Preq: PSY 205 or 209, and 382, Coreq: PSY 382.

SOC/WGS/CFS 422 Work and Family in the Twenty-first Century (3)

Examines the social, demographic, and economic forces that are reshaping the boundaries between family and work.

SPA 305 Mare Nostrum: Mediterranean Introduction to Spain (2)

Thirteen-day seminar introduces students to Spanish culture with an emphasis on the heritage and industry of the Mediterranean and the consciousness that has shaped cuisine, literature, architecture, fashion, lifestyles and social mores in contemporary Spain. Offered only in Spain.

WGS 395 Gender and Popular Culture (3)

How gender is created, mediated, maintained and policed through popular culture. The role of celebrity, music, musicians and musical performers and performances, film, television, the news, gossip, the internet, and advertising.

College of Engineering and Computer Science

BEN 301 Biological Principles for Engineering (4)

Introduction to cell types and structure, nucleic acids, proteins and enzyme kinetics. Gene expression including transcription, translation and post-translational modification. Introduction to genomics, proteomics and bioinformatics. Genetic engineering and tissue engineering. Applications to biotechnology.

Preq: CHE 275, MAT 397, and ECS 104.

BEN 364/664 Quantitative Physiology (4)

Introduction to mammalian physiology from an engineering perspective. Each of the major systems of the body will be addressed, with an emphasis on electrical, mechanical, and thermodynamic principles. Lecture and laboratory. Additional work required of graduate students. Preq: BEN 301.

BEN 485 Bioengineering Laboratory (4)

Practical experience in the design, execution and analysis of experiments related to biomechanics and bioinstrumentation. Technical writing skills will also be emphasized. One four-hour laboratory a week.

Coreq: BEN 465 and 481.

CIE/CEN 565 Bioremediation (3)

Uses of bioremediation in engineering applications. Role of microorganisms in degradation of pollutants and contaminants. Regulatory, societal, and legal issues of bioremediation. Preq: CIE 472 or p.o.i.

CIE/CEN 567 Biotechnology (3)

Engineering applications of biotechnology in agriculture, industry, and the environment. Principles of molecular genetics as applied in the biotechnology industry. Hands-on exposure to laboratory recombinant DNA technology. Preq: CIE 472 or p.o.i.

CIS 471 Optimization Methods (3)

Classical methods of minimum and maximum, gradient methods, conjugate direction methods, linear programming and simplex algorithm, integer programming, non-linear optimization, random search algorithms. Preq: MAT 295, 296 and 331.

CPS 234 Introduction to Computational Thinking (3)

Computational-thinking skills developed through team-based problem solving. Fundamental concepts of computation, including algorithms, data organization, and computational strategies. Application of those concepts to solve problems from multiple settings and disciplines.

College of Human Ecology

CFS 325 Introduction to Child Life (3)

Basic child life theory and practice focused on improving healthcare experiences for children and families by providing play, preparation and education programs in pediatric settings. Preq: CFS 202.

CFS 204 Applied Research Methods in Child and Family Services (3)

Critical evaluation of research studies, development of basic skills for conducting research and application of research knowledge and skills in practical settings. Coreq: PSY 252 or MAT 122 or MAT 222 or MAT 286 or MAT 296 or MAX 201.

HTW 306 Public Health Administrative Systems (3)

The organization of the American Medical and Public Health systems. It will familiarize students with operational aspects of public health programs.

HTW 405/605 Cognitive Behavioral Approaches to Stress Reduction (3)

Students will learn mindfulness practices for professional self-care and as therapeutic modalities. Examining stressors “mindfully” through focused attention on the present. Separately observing the mind’s cognitive and emotive reactions to present, past and anticipated events. Additional work required of graduate students.

HTW 406/606 Clinical Evaluation and Assessment of Addictions (3)

Pre-treatment tools for engaging individuals in the evaluation and assessment of potentially problematic use of addictive and other addictive behaviors. Emphasizes the bio-psycho-social underpinnings of addictions. Role of the counselor as change agent. Additional work required of graduate students. Preq. for HTW 406: HTW 318. Preq. for HTW 606: HTW 618 or SWK 731.

HTW 407/607 Wellness Counseling and Coaching: Overcoming Resistance to Change (4)

Knowledge of the philosophies, practices, policies and outcomes of models of behavior change. Motivational interviewing and solution-focused approaches to addictions counseling. Individual counseling, goal setting and relapse prevention techniques. Includes 30 hours of practice laboratory. Additional work required of graduate students.

HTW 408/608 Addictions in Cultural Context (3-4) *variable length*

Exploration of the role played by drugs in different societies, and follows the dissemination of different substances in the process of cultural encounters. Includes an optional summer component in the Netherlands. Additional work required of graduate students.

HTW 409/609 The Impact of Addictions on Families and Relationships (3)

Knowledge of effects of chemical dependency on family, significant others and the importance of family support in recovery. Knowledge of basic family treatment approaches. Additional work required of graduate students.

HTW 410/610 Addictions Treatment Planning and Referral (3)

Treatment, planning, clinical record keeping, and discharge planning in addition to individual and group, recovery models, replacement therapy, and dual-diagnosis. Additional work required of graduate students.

Preq: HTW 405 or 606.

NSD 329 Pediatric Diabetes (1)

An overview of causes, characteristics and nutrition guidelines and recommendations for children with diabetes. Preq: NSD 326.

NSD/HPM 423 Food in History (3)

Explore how food has shaped the world's history from prehistoric times. Discover how it is shaping the "history" of who you are. Sophomores, juniors, and seniors.

School of Information Studies

GET *234 Effective Collaboration in a Globally Distributed Enterprise (1.5)

Key technologies that facilitate collaboration in a global enterprise. Best practices for virtual and cross-cultural enterprise. Best practices for virtual and cross-cultural collaboration. Strategies for synchronous and asynchronous collaboration. Challenges of team building in a distributed environment.

GET 235 Leveraging Emerging Technologies (1.5)

Explore emerging technologies on a global scale and in the context of services familiar to students. Infrastructure, data centers, programming languages, security, privacy, mobile applications, and payment systems.

GET 471 Internship in Global Enterprise Technology (1-12)

Fully supervised internship available to Global Enterprise Technology minors. Students must complete contract with a site supervisor.

GET 481 IT-Enabled Innovation and Change Within a Global Enterprise (3)

Supports internship in global enterprise: Analytical views of IT-enabled innovation and change management; Develop strategic approach to innovation and change; Understand organizational implications of innovation; Present innovative ideas to senior management.

IST/FIN 302 Global Financial Systems Architecture (3)

Structures of real-world information systems in the money supply chain. Emphasis on large-scale banking organizations and their challenges in moving and processing millions of complex transactions worldwide for all types of customers.

***(new prefix) Global Enterprise Technology**

IST/MIS 365 Business Value of Information Technology (1.5)

Financial measures of IT value including TCO, ROI, and NPV; non-financial dimensions of business value such as strategic fit, IT investment risk; IT governance and IT models; measuring IT performance; IT change management.

IST/MIS 375 Management of Information Technology Contracting (1.5)

Budgeting and controlling IT costs; IT procurement including requirements specification, requests for proposals, evaluation criteria, and vendor selection; evaluating and managing vendor performance; developing and monitoring contracts.

IST 432 Enterprise Systems (3)

Technical overview of Enterprise Systems and their impact on organizations. The concepts, fundamentals, issues and technologies in planning, implementing and operating an Enterprise System. Current trends, issues, technologies and extensions. Laboratory exercises.

IST 434 Global Computing Challenges (3)

Management and technical overview of large-scale computing challenges and their impact on global enterprise operations. The concepts, fundamentals, issues and technologies for managing high performance computing operations. Laboratory exercises.

IST 439 Enterprise Technologies (3)

Coverage of technical architecture and management issues that comprise enterprise computing environments. Focus on identifying and solving large complex problems and using large scale computing systems to deploy enterprise solutions. Hands-on development using enterprise technologies.

College of Visual and Performing Arts

ART 431/631 Art Nouveau Design and Architecture: Studies in Material Culture (4)

Introduction to the historical and social context that gave rise to Art Nouveau, its various manifestations, and the important practitioners and promoters of this movement in Europe and the United States. Preq: ART 111 or 113 or FIA 106.

MUI 010 Soyars Entertainment Leadership Lecture Series I (0)

Features music industry leaders from the highest levels of business. These visiting faculty members will focus, in depth, on cutting edge issues as they relate to leadership in today's industry. May be repeated 8 times.

MUE 510 Practicum in Children's Choir (1-3)

Develop understanding, expertise, and practical experience working with a children's choir through score analysis, rehearsal observations, and conducting experiences. In-depth study of choral music appropriate for children's choirs of varying levels.

Whitman School of Management

RES 442 Real Estate Development (3)

Build understanding of the real estate development process. Deliver the prerequisite understanding of terms, concepts and competencies necessary for a basic understanding of and participation in real estate development. Preq: FIN 256 or FIN 301.

RES 431 Real Estate Principles (3)

The understanding of real estate fundamentals, including roles, activities, terminology, transaction processes and how the tools and models in real estate are used to make informed decisions, with emphasis on developing valuation skills. Preq: FIN 256 or FIN 301.

New Minor

Minor in Addition Studies, College of Human Ecology

Minor in Global Enterprise Technology, School of Information Studies

Minor in Real Estate, Whitman School of Management