

Minutes of the University Curriculum Committee
December 11, 2009
217 Koldus

Members present: Robert Knight (Chair), College of Agriculture and Life Sciences; Tim Scott (Vice-Chair), College of Science; Lynn Burlbaw, College of Education and Human Development; Cathy Sperry (for Lale Yurttas), Dwight Look College of Engineering; Sarah Bednarz, College of Geosciences; Claude Gibson, College of Liberal Arts; Liesl Wesson, Mays Business School; Suzanne Shurtz, Medical Sciences Library; Kristin Harper (for Pamela Matthews), Undergraduate Studies; James Herman, College of Veterinary Medicine and Biomedical Sciences.

Guests: Chanda Elbert, Department of Agricultural Leadership, Education and Communications; Ashlea Schroeder, Department of Biological and Agricultural Engineering; Carol McBryde and Nancy Simpson, Mays Business School; Ann Gundy, Department of Educational Administration and Human Resource Development; April Place, Department of Electrical and Computer Engineering; Matt Whiteacre and Ben Zoghi, Department of Engineering Technology and Industrial Distribution; Andy Banerjee, Department of Industrial and Systems Engineering; Jon Jaspersen, Department of Information and Operations Management; Mike Stephenson, College of Liberal Arts; Peter Kuchment, David Larson, and Mila Mogilevsky, Department of Mathematics; Richard Cummins, School of Military Science; John Lee, Department of Petroleum Engineering; Chuck Kenerley, Department of Plant Pathology and Microbiology.

The University Curriculum Committee recommends approval of the following:

1. The minutes of the November 13, 2009 meeting.
2. New Courses

AERO 209. Aerospace Engineering Mechanics I. (2-1). Credit 2. Forces and moments; static equilibrium of particles and bodies; truss and frame structures; distributed force systems; centroids and distributed force systems; internal forces in structural members; friction; moments of inertia. Prerequisite: Admission to upper division degree sequence in aerospace engineering; MATH 251 or 253 or registration therein.

AERO 210. Aerospace Engineering Mechanics II. (2-1). Credit 2. Fundamentals of Newtonian mechanics; system of particles and rigid bodies; review of free body diagrams; rectilinear and curvilinear motion of particles; translational momentum; angular momentum; the effect of friction forces on motion; plane motion of rigid bodies; particle impact; situations involving variable mass. Prerequisite: AERO 209 and MATH 308 or registration therein.

AFST 252. Introduction to Hip-Hop Philosophy. (3-0). Credit 3. Introduction to philosophy by way of the major themes and subjects of Hip-Hop; critical advocacy of various philosophical ideals. Cross-listed with PHIL 252.

AFST 324. Africana Social Sciences. (3-0). Credit 3. Exploration of a significant topic pertaining to Africa and/or its diaspora in the social sciences. May be taken three times for credit. Prerequisite: Junior or senior classification.

AFST 325. Africana Humanities. (3-0). Credit 3. Exploration of a significant topic pertaining to Africa and/or its Diaspora in the humanities and arts. May be taken three times for credit. Prerequisite: Junior or senior classification.

AFST 326. Africana Popular Culture. (3-0). Credit 3. Dynamics of popular culture and classic theories of society; popular and public cultural forms in context of globalization and the Africana

Diaspora. May be taken three times for credit. Prerequisite: Junior or senior classification or approval of instructor.

AFST 352. Africana Philosophy. (3-0). Credit 3. Presentation of the seminal ideas of several influential Africana thinkers; recovery of the neglected traditions in which these thinkers locate themselves. May be taken three times for credit. Prerequisite: Junior or senior classification or approval of instructor. Cross-listed with PHIL 352.

AFST 353. Radical Black Philosophies of Race and Racism. (3-0). Credit 3. Critical evaluation of white supremacy, colonialism and the modern construction of race; examination of the historical background for contemporary theories of race. Prerequisite: Junior or senior classification or approval of instructor. Cross-listed with PHIL 353.

AFST 391. Africana Feminisms. (3-0). Credit 3. Exploration of a significant topic in feminist theory by and about women from Africa and/or its Diaspora, from various disciplinary perspectives and historical periods, and with application to societal debates and controversies. May be taken three times for credit. Prerequisite: Junior or senior classification.

ALED 222. Practicing Diverse Leadership and Cultural Exploration. (3-0). Credit 3. Social theories and historical perspectives of leadership, particularly in terms of class, gender, race, ethnicity, and nationality; multidisciplinary approach to the study of leadership with a special emphasis on culture completed through readings, class lectures, films, group projects and discussions. Prerequisite: Membership in the Multicultural Services Culture Leadership, Understanding and Exploration for Sophomores Learning Community.

AMST 200. American Studies: History and Methods. (3-0). Credit 3. Examination of the “American symbology” (1920-1950) school through current trans- and post-national theories of the “United States”; exploration and application of theoretical approaches to interdisciplinarity. Prerequisite: Freshman or sophomore classification or approval of instructor.

AMST 210. American Expressions. (3-0). Credit 3. Exploration of American artistic and cultural productions from different historical periods; visual and performing arts, fine and folk arts, architecture, and other forms of cultural expression; and interrelationship between indigenous, imported, exported, and hybrid arts and representations of “America.” Prerequisite: AMST 200 or approval of instructor; freshman or sophomore classification.

AMST 220. Constructing Identities. (3-0). Credit 3. Examination of the cultural construction of identity; personal and collective, corporeal and virtual, national and global identities; and multicultural, psychoanalytic, sociological, transnational, ethical, and narrative theories of identity. Prerequisite: AMST 200 or approval of instructor; freshman or sophomore classification.

AMST 240. Cultures of Science and Technology. (3-0). Credit 3. Examination of the history and theories of science and technology in the United States; interrelated “American” philosophies of exceptionalism, pragmatism, democracy, progress, and technological determinism; scientific theories and technological innovations and their relationship to gender, race, ethnicity, nationalism, imperialism, and globalization. Prerequisite: AMST 200 or approval of instructor; freshman or sophomore classification.

AMST 250. Comparative Border Studies. (3-0). Credit 3. Exploration of hemispheric and transnational borders as physical spaces, metaphorical constructions, and as imagined places

where cultures of the United States and other nations intersect; related borders of gender, class, race, and nation. Prerequisite: AMST 200 or approval of instructor; freshman or sophomore classification.

ANSC 210. Companion Animal Science. (3-0). Credit 3. Types, care, physiology, common diseases and common treatments of companion animals (dogs, cats, exotic pets); careers including biomedical research; solutions for problems such as behavior and overpopulation. Prerequisite: ANSC 107.

ANSC 335. Purebred Beef Cattle Management. (1-2). Credit 2. Information and skills needed to be successful in the production, management and merchandising of purebred beef cattle; purpose and organization of the purebred beef cattle industry, and career opportunities in the industry. Prerequisite: Junior or senior classification.

ANTH 419. Indians of Texas. (3-0). Credit 3. Study of diverse native/immigrant Texas Indian lifeways/cultures from late pre-European to contemporary times; exploration of historical underpinnings, traditional cultures, especially land-use patterns; assessment of tribal relationships with colonial powers, U.S., and Texas governments as evidenced in ethnographic, ethnohistoric, and historical materials; application toward anthropological, archaeological, and human ecology research. Prerequisite: Junior or senior classification; ANTH 201; and ANTH 301 or 302 or 303 or HIST 258; or HIST 308 or approval of instructor.

BESC 357. Biotechnology for Biofuels and Bioproducts. (3-0). Credit 3. Biotechnology issues in developing bioenergy as a renewable energy source; emphasis on the three generations of bioenergy and enabling technologies; special topics include recent advances in bioenergy research, government policy, and industrial development. Prerequisite: BESC 201 and junior or senior classification.

BUSN 302. Applied Business Competencies. Credit 1 to 3. Business core-competencies applied in specific disciplinary and/or experiential contexts; topics include working in the nonprofit sector, office politics; facilitation and training; conflict resolution, women in business, personal leadership, project evaluation. May be taken five times for credit. Prerequisite: BUSN 205; junior or senior classification or approval of instructor.

BUSN 403. Personal Competency Assessment. (3-0). Credit 3. Self-assessment of development of core business competencies: communication, problem-solving, management and leadership, ethical decision making, team work; compilation and evaluation of evidence of competencies; preparation of competency portfolio; creation of professional development plan. Prerequisite: BUSN 205; junior or senior classification or approval of instructor.

ENTC 251. Engineering Leadership. (2-3). Credit 3. Exploration of Emotional Intelligence (EI), identification of personal EI competencies and areas for improvement, and development of these competencies and skills; determination of techniques to anticipate and manage our emotions, and to anticipate and work with the emotions of others.

INFO 309. Supply Chain Management Principles. (3-0). Credit 3. Integrated management of the make, buy and delivery processes in firms; emphasis on issues specific to the procurement, manufacturing, and logistics disciplines; requirements for operating in a global marketplace; includes cultural, functional and strategic aspects of global business. Prerequisite: INFO 209; junior classification; for students other than business and agribusiness majors.

INFO 335. Sourcing and Procurement. (3-0). Credit 3. Processes to identify and manage suppliers for goods and services to support operations; including sourcing, contracting, negotiations, buying procedures, cost and price analysis, vendor relations, auditing and inspection, supplier relations, and applications to information technology systems. Prerequisite: INFO 364; junior or senior classification; or approval of instructor.

INFO 345. Business Process Design. (3-0). Credit 3. Design, implementation and improvement of the processes by which a firm sources, makes, and delivers products and services to meet customer requirements; includes six-sigma, process flow charting, computer simulation, and other techniques to document, analyze, design and improve business processes. Prerequisite: INFO 364; junior or senior classification; or approval of instructor.

MATH 167. For All Practical Purposes. (3-0). Credit 3. Application of mathematics to real world situations using quantitative methods; includes urban services and elements of management science (optimal routes, planning and scheduling), elements of statistics (sampling/polling methods, analyzing data to make decisions), codes used by stores, credit cards, internet security, cryptography. Prerequisite: High school Algebra I and II.

PHIL 252. Introduction to Hip-Hop Philosophy. (3-0). Credit 3. Introduction to philosophy by way of the major themes and subjects of Hip-Hop; critical advocacy of various philosophical ideals. Cross-listed with AFST 252.

PHIL 352. Africana Philosophy. (3-0). Credit 3. Presentation of the seminal ideas of several influential Africana thinkers; recovery of the neglected traditions in which these thinkers locate themselves. May be taken three times for credit. Prerequisite: Junior or senior classification or approval of instructor. Cross-listed with AFST 352.

PHIL 353. Radical Black Philosophies of Race and Racism. (3-0). Credit 3. Critical evaluation of white supremacy, colonialism, and the modern construction of race; examination of the historical background for contemporary theories of race. Prerequisite: Junior or senior classification or approval of instructor. Cross-listed with AFST 353.

SCSC 458. Land Use and Water Quality Management. (3-0). Credit 3. Land use impact on surface and ground water chemistry; legislation impacting water quality; surface and groundwater impairment and restoration. Prerequisite: CHEM 101 or equivalent or permission of instructor; junior or senior classification.

SOMS 111. Principles of Academic and Personal Development. (1-0). Credit 1. Identification of personal goals and learning skills promoting academic and career success; development of personal leadership strengths, styles, motivation and values; personal development planning for self-improvement. Prerequisite: Freshman classification or approval of instructor.

SOMS 180. Survey of Performance Based Training Methods. (1-0). Credit 1. Introduction to performance oriented training methods and techniques; key concepts and generalizations of training and identification of training needs; study of representative theories of workplace training, performance evaluation, and experiential training techniques. Prerequisite: Freshman classification or approval of instructor.

SOMS 280. Fundamentals of Peer Leadership. (1-0). Credit 1. Introduction to theories of peer leadership when applied to a specific context; fundamentals and techniques of small group communication; performance evaluation; survey of basic supervisory skills. Prerequisite: Sophomore classification or approval of instructor.

SPAN 352. Hispanic Linguistics. (3-0). Credit 3. Study of Hispanic linguistics, including phonetics and phonology, morphology, syntax, change and variation. Prerequisite: Any two 300-level Spanish classes or approval of instructor; junior or senior classification.

SPAN 460. Topics in Hispanic Literature. (3-0). Credit 3. Exploration of a significant topic, author, movement, genre or period in Hispanic literature. May be taken three times for credit. Prerequisite: Junior or senior classification; SPAN 302 or 303 and SPAN 320 or approval of instructor.

SPAN 461. Topics in Hispanic Culture. (3-0). Credit 3. Exploration of significant socio-cultural issues or the socio-cultural influences derived from or exerted on expressive forms within Hispanic Society. May be taken three times for credit. Prerequisites: Junior or senior classification; SPAN 311 or 312 or approval of instructor.

SPAN 462. Topics in Hispanic Linguistics. (3-0). Credit 3. Exploration of significant topics in Hispanic linguistics from different theoretical and applied perspectives. May be taken three times for credit. Prerequisites: Junior or senior classification; SPAN 352 or approval of instructor.

URSC 451. Hazard and Vulnerability Analysis for Planners. (3-0). Credit 3. Tools and techniques used by city planners and emergency managers to determine their jurisdictions' hazard risk and social vulnerability to disaster impacts. Prerequisite: Junior or senior classification, URSC 450 or approval of instructor.

3. Withdrawal of Course

ANTH 306. Indians of Texas.

4. Change in Courses

AERO 201. Introduction to Aerospace Engineering.

Prerequisite

From: Admission to upper division degree sequence in aerospace engineering; AERO 211 or registration therein.

To: Admission to upper division degree sequence in aerospace engineering; AERO 209 or registration therein.

AERO 213. Material Science for Engineers.

Course title

From: Material Science for Engineers.

To: Material Science for Aerospace Engineers.

Prerequisite

From: Admission to upper division degree sequence in aerospace engineering; AERO 211 and MATH 251 or 253 or registration therein.

To: Admission to upper division degree sequence in aerospace engineering; AERO 209 and MATH 251 or 253 or registration therein.

AERO 214. Aerospace Engineering Principles of Continuum Mechanics.

Prerequisite

From: AERO 211; AERO 213 and MATH 308 or registration therein.

To: AERO 209; AERO 213 and MATH 308 or registration therein.

AERO 220. Introduction to Aerospace Computation.

Lecture and lab hours

From: (1-2). Credit 2.

To: (2-1). Credit 2.

Prerequisite

From: Admission to upper division degree sequence in aerospace engineering; AERO 211 or registration therein.

To: Admission to upper division degree sequence in aerospace engineering; AERO 209 or registration therein.

AERO 304. Structural Analysis I.

Course title

From: Structural Analysis I.

To: Aerospace Structural Analysis I.

Lecture and lab hours

From: (4-0). Credit 4.

To: (3-0). Credit 3.

AERO 306. Structural Analysis II.

Course title

From: Structural Analysis II.

To: Aerospace Structural Analysis II.

AERO 310. Aerospace Dynamics.

Prerequisite

From: AERO 320 or registration therein; AERO 214, MATH 308.

To: AERO 320 or registration therein; AERO 210, 214, MATH 308.

AERO 401. Aerospace Vehicle Design I.

Prerequisite

From: AERO 303, 306, 351, 421.
To: AERO 302, 303, 306, 351, 421.

AERO 402. Aerospace Vehicle Design II.

Prerequisite

From: AERO 401.
To: AERO 305, 401.

AGSM 439. Management of Agricultural Systems I.

Lecture and lab hours

From: (0-2). Credit 1.
To: (1-2). Credit 2.

ARCH 421. Energy Conservation in Residential Architecture.

Course title

From: Energy Conservation in Residential Architecture.
To: Energy and Sustainable Architecture.

Course description

From: Analyze energy use for sustainability in architecture; energy and Leadership in Energy and Environmental Design (LEED) audits, computer simulations of design using solar, low-energy and passive energy; include LEED rating analysis. Prepare for LEED rating.
To: Understanding the various design decisions impacting sustainability and energy efficiency; includes participation in an “academic” LEED-NC rating project; interdisciplinary team approach with a design studio architect to perform the LEED-NC rating on the architect’s building; application of reference material, standards, and USGBC material.

Prerequisite

From: ENDS 233, with ARCH 334 preferred.
To: ARCH 335 or approval of instructor.

ECEN 303. Random Signals and Systems.

Lecture and lab hours

From: (3-0). Credit 3.
To: (3-1). Credit 3.

ECEN 322. Electric and Magnetic Fields.

Lecture and lab hours

From: (3-0). Credit 3.
To: (3-1). Credit 3.

ECEN 325. Electronics.

Lecture and lab hours

From: (3-3). Credit 4.

To: (3-4). Credit 4.

ECEN 370. Electronic Properties of Materials.

Lecture and lab hours

From: (3-0). Credit 3.

To: (3-1). Credit 3.

EHRD 391. Measurement and Evaluation in HRD.

Prerequisite

From: Junior or senior classification; admitted to professional phase; or approval of instructor.

To: Junior or senior classification or approval of instructor; MATH 141 and 142.

EHRD 473. Introduction to Distance Learning.

Course title

From: Introduction to Distance Learning.

To: Distance Learning Applications.

Course description

From: Introduction to the field of distance learning; application of distance learning principles to educational and training settings via a variety of distance learning modalities.

To: Application of distance learning principles to educational and training settings via a variety of distance learning modalities.

EHRD 475. Multimedia Development for Training and Instruction.

Prerequisite

From: Junior or senior classification and approval of instructor.

To: Junior or senior classification; or approval of instructor; INFO 209 or approved substitution.

EHRD 481. Human Resource Development Seminar.

Course title

From: Human Resource Development Seminar.

To: Human Resource Development Seminar in Career Development.

Prerequisite

From: Junior or senior classification and approval of instructor.

To: Junior or senior classification; admitted to professional phase; or approval of instructor.

EHRD 484. Professional Internship.

Prerequisite

From: Junior or senior classification and approval of instructor.

To: Senior classification and approval of instructor, admitted to professional phase, EHRD 481, 491.

EHRD 491. Research.

Course title

From: Research.

To: Research in Human Resource Development.

Course description

From: Research conducted under the direction of a faculty member in educational research development.

To: Overview of various types of investigative techniques currently employed in human resource development (HRD) including the context of HRD research, planning HRD research, styles of HRD research, and strategies for data collection and researching.

Prerequisite

From: Junior or senior classification and approval of instructor.

To: Junior or senior classification; approval of instructor; admitted to professional phase, EHRD 391.

ISEN 220. Introduction to Production Systems.

Course description, co-requisite, prerequisite

From: Introduction to manufacturing and production systems; provides an overview of various aspects of manufacturing systems; includes design, analysis, operation and control; a perspective for manufacturing systems related problems and the complex interactions that they entail. Co-requisites: CSCE 206; ENTC 181; STAT 211.

To: Introduction to manufacturing and production systems; provides an overview of various aspects of manufacturing systems; includes design, analysis, operation and control; a perspective for manufacturing systems related problems and the complex interactions that they entail; includes the use of Excel and VBA. Co-requisites: ENTC 181; STAT 211. Prerequisite: CSCE 206.

MEEN 459. Mechanical Vibrations.

Course title

From: Mechanical Vibrations.

To: Sound and Vibration Measurements.

Course description

From: Basic theory of vibrating systems with single and multiple degrees of freedom and principles of transmission and isolation of vibrations, vibration measurement and application for machinery health monitoring.

- To: Basic acoustics, review of vibration theory, wave propagation in vibrating systems, sound radiation from vibrating systems, sound and vibration sensors and instrumentation, data acquisition systems, measurement techniques, spectral analysis, spatial FFT analysis, design of experiments with vibro-acoustic systems, applications.

MGMT 475. Leadership Development.

Course description

- From: Provides participants both academic grounding and practical experience in health, education and economic development issues that are facing the nation; exercises and simulations designed to improve leadership skills.
- To: Explores the evolution of leadership theory and practice with an emphasis on effective and ineffective leaders' traits, behaviors, and styles in profit and not-for-profit work organizations; reviews critical aspects of leader role behavior from theoretical and practical perspectives; examines leader effectiveness at the individual, group, and strategic level.

NUEN 417. Introduction to Fusion Engineering.

Course title

- From: Introduction to Fusion Engineering.
- To: Basics of Plasma Engineering and Applications.

Course description

- From: Fusion reactor requirements and fundamentals. Basic plasma physics and confinement techniques. Reactor design and engineering problems.
- To: Basic plasma properties and confinement techniques; single particle orbits in electric and magnetic fields, moments of Boltzmann equation and introduction to fluid theory; wave phenomena in plasmas and introduction to plasma kinetic theory; analysis of laboratory plasmas and plasma applications including fusion, electric propulsion, materials processing and plasma enhanced chemistry.

Prerequisite

- From: Senior classification in nuclear engineering or approval of instructor.
- To: PHYS 208 or equivalent; senior classification in nuclear, mechanical, or aerospace engineering, physics, or approval of instructor.

PETE 201. Introduction to Petroleum Engineering.

Course description

- From: Overview of petroleum industry and petroleum engineering, including nature of oil and gas reservoirs, petroleum exploration and drilling, formation evaluation, well completions and production, surface facilities, reservoir mechanics, and improved oil recovery.

To: Overview and history of the petroleum industry and petroleum engineering; nature of oil and gas reservoirs, exploration and drilling, formation evaluation, well completions and production, surface facilities, reservoir mechanics, improved oil recovery; impact of ethical, societal, environmental considerations; career development resources, including professional society.

PETE 301. Petroleum Engineering Numerical Methods.

Prerequisite

From: PETE 311; CVEN 305; MEEN 315; MATH 308.

To: PETE 225, 311; MATH 308, junior or senior classification, petroleum engineering majors only; or approval of instructor.

PETE 310. Reservoir Fluids.

Prerequisite

From: PETE 311; CHEM 107; CVEN 305; MEEN 315; MATH 308.

To: PETE 311; CHEM 107; MEEN 315; MATH 308, junior or senior classification, petroleum engineering majors only; or approval of instructor.

PETE 311. Reservoir Petrophysics.

Course description

From: Systematic theoretical and laboratory study of physical properties of petroleum reservoir rocks; lithology, porosity, relative and effective permeability; fluid saturations, capillary characteristics, compressibility, rock stress, and fluid-rock interaction.

To: Systematic theoretical and laboratory study of physical properties of petroleum reservoir rocks; lithology, porosity, elastic properties, strength, acoustic properties, electrical properties, relative and effective permeability, fluid saturations, capillary characteristics, and rock-fluid interaction.

Prerequisite

From: PETE 225; MEEN 221; GEOL 104; MATH 308 or registration therein.

To: MEEN 221; GEOL 104; MATH 308 or registration therein; junior or senior classification, petroleum engineering majors only; or approval of instructor.

PETE 314. Transport Processes in Petroleum Production.

Course description

From: Fluid mechanics; fluid statics; mass, energy, momentum balances; friction losses, turbulent flow, Reynolds Number (Moody diagram); Newtonian/Non-Newtonian fluids; flow in porous media (Darcy's law and Non-Darcy flow); heat transfer: heat conduction (steady-state/transient-flow: flux components, slabs/cylinders, thermal conductivity, analogs, applications); heat convection (heat transfer/pressure drop, heat exchangers, applications).

- To: Theory and application of fluid mechanics (statics; mass, energy, momentum balances; laminar and turbulent flow, Reynolds number, Moody diagram; non-Newtonian fluid flow; multi-phase flow; flow in porous media, non-Darcy flow); heat transfer; transport phenomena analogies; analysis and selection of pumps, compressors and heat exchangers.

PETE 321. Formation Evaluation.

Course description

- From: Introduction to modern well logging methods, engineering, core-log integration.
- To: Well logging methods and evaluation of well logs for formation evaluation; basic logging principles, theory of tool operation, open hole log analysis to estimate rock and fluid properties, including porosity, net pay thickness and saturation; capillary pressure-saturation relationships, shaly sand analysis, core-log integration and resource determination.

Prerequisite

- From: PETE 301 and 310; GEOL 404; or approval of instructor.
- To: PETE 301, 310, 311; GEOL 404, junior or senior classification, petroleum engineering majors only; or approval of instructor.

PETE 322. Geostatistics.

Course description

- From: Introduction to geostatistics; basic statistics concepts; univariate distributions and estimators; measures of heterogeneity; hypothesis testing, correlation, and regression; analysis of spatial relationships, modeling geological media and use of statistics in reservoir modeling.
- To: Introduction to geostatistics; basic concepts in probability and univariate statistics; bivariate statistics and spatial relationship; covariance and correlation; second order stationarity; variogram estimation and modeling; spatial estimation and reservoir modeling; simple and ordinary kriging; uncertainty analysis; estimation versus conditional simulation; sequential Gaussian simulation.

Prerequisite

- From: PETE 401; GEOL 404; or approval of instructor.
- To: Senior classification, petroleum engineering majors only; or approval of instructor.

PETE 323. Reservoir Models.

Prerequisite

- From: PETE 301 and 310; GEOL 404.
- To: PETE 301, 310, 311; GEOL 404, junior or senior classification, petroleum engineering majors only; or approval of instructor.

PETE 324. Well Performance.

Prerequisite

From: PETE 301 and 310; GEOL 404.

To: PETE 301, 310, 311; GEOL 404, junior or senior classification, petroleum engineering majors only; or approval of instructor.

PETE 325. Petroleum Production Systems.

Prerequisite

From: PETE 301, 310, 314; GEOL 404.

To: PETE 301, 310, 314, junior or senior classification, petroleum engineering majors only; or approval of instructor.

PETE 335. Technical Presentations I.

Course description

From: Preparation of a written technical paper on a subject related to petroleum technology and an oral presentation of the paper in a formal technical conference format; oral presentations judged by petroleum industry professionals at the departmental student paper contest held during the same academic year.

To: Preparation of a written technical paper on a subject related to petroleum technology and an oral presentation of the paper in a formal technical conference format; oral presentations judged by petroleum industry professionals.

Prerequisite

From: COMM 205; junior classification in petroleum engineering.

To: COMM 205, junior or senior classification, petroleum engineering majors only; or approval of department head.

PETE 401. Reservoir Development.

Course title

From: Reservoir Development.

To: Reservoir Simulation.

Course description

From: An integrated reservoir development experience for senior students in petroleum engineering; emphasis on reservoir description (reservoir and well evaluation), reservoir modeling (simulation), production optimization (nodal analysis, stimulation, artificial lift, facilities), reservoir management (surveillance and reservoir optimization) and economic analysis (property evaluation and risk analysis).

To: Solution of production and reservoir engineering problems using state-of-the-art commercial reservoir simulation software, using data commonly available in industry; emphasis on reservoir description, reservoir model design and calibration, production forecasting and optimization, economic analysis and decision making under uncertainty.

Prerequisite

From: PETE 321, 323, 324, 325, 403.

To: PETE 310, 321, 323, 324, 325, 403, senior classification, petroleum engineering majors only; or approval of instructor.

PETE 403. Petroleum Project Evaluation.

Prerequisite

From: PETE 301, 310, 314.

To: PETE 301, 310, 311, 314, junior or senior classification, petroleum engineering majors only; or approval of instructor.

PETE 405. Drilling Engineering.

Prerequisite

From: PETE 321, 323, 324, 325, 403.

To: PETE 225, 321, 325, 403, senior classification, petroleum engineering majors only; or approval of instructor.

PETE 416. Production Enhancement.

Course description

From: Design, problem diagnosis and solving, and performance optimization of the technologies that increase oil and gas well production, including artificial lift, acid stimulation and hydraulic fracturing.

To: Design, diagnosis and solution of production problems, and optimization of the technologies that increase oil and gas well performance; integration of the different elements of a production system to maximize recovery from a field.

PETE 435. Technical Presentations II.

Prerequisite

From: PETE 335; senior classification in petroleum engineering.

To: PETE 335, satisfactory performance in PETE 335 student paper contest, senior classification, petroleum engineering majors only; or approval of department head.

RENr 460. Development and Management of Protected Areas.

Course title

From: Development and Management of Protected Areas.

To: Nature, Values, and Protected Areas.

Course description

From: Case studies illustrating social, political, and legal influences on the development and management of parks, refuges, wilderness and other protected areas; interaction between protected-area management and tourism development in neighboring communities and regions; interpretation of social contexts. Prerequisite: RPTS 307 or 316; or 9 hours of credit in natural resource courses. Cross-listed with RPTS 460.*

- To: Writing-intensive course in which students discuss the ways in which protected areas reflect human values about nature; identify stakeholders in and around protected areas, exploring how interests either conflict or coincide; evaluate social, economic, cultural, and ecological trade-offs of different approaches to conservation. Prerequisite: RPTS 307 or 316; or 9 hours of credit in natural resource courses. Cross-listed with RPTS 460.*

RPTS 301. Leisure and Outdoor Recreation.

Course title

From: Leisure and Outdoor Recreation.

To: Leisure and Outdoor Recreation in American Culture.

Course description

From: Development and administration of recreational facilities in natural and indoor settings; development of community, land and water resources to provide recreational opportunities in which environmental factors play major roles; fundamental concepts of recreation and leisure and their roles in modern American culture.

To: Introduction to the fundamental concepts of leisure and outdoor recreation and how they influence us as individuals, groups and society; critical factors such as self, family, lifespan, ecology, health, work patterns, communications, diversity, popular culture, and consumption are studied in relationship to past, present and future leisure patterns.

RPTS 423. Tourist and Resort Development.

Course title

From: Tourist and Resort Development.

To: Resort and Tourism Management.

Course description

From: Tourism and recreational travel; nature of resort development and its effect on generating tourist flow to and within regions; relationship of resource characteristics and resource ownership and control to the characteristics and economic importance of state and national resort industries.

Prerequisite: RPTS 202.*

To: Managing tourism businesses; organization, complexity and scope of tourism systems; tourism issues related to distribution, operations and sustainability; managing tourism in different environments; roles of technology and information technology; future of tourism. Prerequisite: RPTS 202.*

RPTS 460. Development and Management of Protected Areas.

Course title

From: Development and Management of Protected Areas.
To: Nature, Values, and Protected Areas.

Course description

From: Case studies illustrating social, political, and legal influences on the development and management of parks, refuges, wilderness and other protected areas; interaction between protected-area management and tourism development in neighboring communities and regions; interpretation of social contexts. Prerequisite: RPTS 307 or 316; or 9 hours of credit in natural resource courses. Cross-listed with RENR 460.*

To: Writing-intensive course in which students discuss the ways in which protected areas reflect human values about nature; identify stakeholders in and around protected areas, exploring how interests either conflict or coincide; evaluate social, economic, cultural, and ecological trade-offs of different approaches to conservation. Prerequisite: RPTS 307 or 316; or 9 hours of credit in natural resource courses. Cross-listed with RENR 460.*

5. Change in Curricula

College of Architecture

Department of Construction Science
B.S. in Construction Science

College of Education and Human Development

B.S. in Human Resource Development
B.S. in Technology Management

College of Education and Human Development

B.S. in Technology Management

Dwight Look College of Engineering

Department of Aerospace Engineering
B.S. in Aerospace Engineering

Dwight Look College of Engineering

Department of Electrical and Computer Engineering
B.S. in Computer Engineering
Electrical Engineering Track

6. Special Consideration

College of Liberal Arts

Arabic and Asian Language Office
Request for a Minor in Japanese

College of Liberal Arts

International Studies Degree Program and George Bush
School of Government and Public Service
Request for a Five-Year Joint Degree Program
B.A. in International Studies and MPIA

College of Liberal Arts

Minor in Neuroscience – Catalog requirement changes

7. Change in Curriculum – *from November 13, 2009 meeting*

Dwight Look College of Engineering

Department of Engineering Technology and Industrial Distribution
B.S. in Engineering Technology
Electronics Engineering Technology Option
Telecommunications Engineering Technology Option

8. Tabled Courses

- New course
 - FINC 268 – syllabus course description has reference to 289, ADA lacks web reference, late assignment requires delivery on due date even if excused absence, remove footer reference; remove “restricted” statement from course description (form).
- Change in course
 - ARCH 207 – no representative present; under Attendance and Timeliness what is meant by “substantially lowered grades” and projects needs “except for university excused absence.”

9. Department of Petroleum Engineering pulled PETE 400 change in course (awaiting GEOL 400-cross-listed course).

10. Other Business

- Report from subcommittees
 - Stacked courses subcommittee – correct charge of subcommittee (not “editorial subcommittee”); will report at next UCC meeting.
 - Course description subcommittee – brief summary from K. Harper with full report at next UCC meeting.
- Discussion on grading scale.
- Course forms – new forms must be used beginning January 2010; courses presented on old course forms will be returned to department.