


# UCF Graduate Council

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## CURRICULUM COMMITTEE MINUTES

Minutes of November 16, 2011 meeting	
Members Present	Patricia Bishop, Tosha Dupras, Cristina Fernandez-Valle, Naim Kapucu, Charles Kelliher, Max Poole, Kerry Purmensky, Jay Jay Stroup, Terrie Sypolt, Julee Waldrop, Art Weeks, Boris Zeldovich
Recorder	Rhonda Nelson
Guests Present	Teresa Dorman, Boyd Lindsley, Charles Reilly, Peter Larson, John Sacher, Ahmed Elshennawy, Richard Peppler, Weili Luo, Will Russell
Files	<a href="#">2011-11-16 Course Action Requests minutes</a> 

**Welcome and call to order.** The meeting was called to order at 12:00 p.m. by Tosha Dupras, Chair. A quorum was established. The minutes were reviewed and approved.

**Addition of a graduate certificate in Corporate Communication.** Teresa Dorman presented an overview of this new certificate which focuses on both internal and external communication emphasizing public relations, organizational communication, and advertising. This will be a 15 credit hour certificate and no new courses will be needed. Current students will have the option of enrolling. This certificate received unanimous approval.

**Review of equipment fee requests and M&S fee requests.** Charles Reilly was present to give an overview of the equipment fees for the CECS programs. Since 2008, the college had been charging the maximum amount for equipment fees for all programs. He reported that the departments have re-evaluated the equipment needs of each program in the college, both in terms of replacing existing equipment and planning for purchases. They are now requesting to lower the fees for the majority of these programs. There was a suggestion to round off the fee amounts to the nearest five dollars for accounting purposes. All fee revisions received unanimous approval. There was one request to add an M&S fee to course SPA 6569 which also received unanimous approval.

**Revisions to the Engineering Management PSM degree and 2 track inactivations.** Patricia Bishop presented the changes to the PSM degree and the 2 track inactivations. The changes to the MSEM PSM program included changing a required course and adding both a thesis and nonthesis option. Overall hours to remain the same. Any students in the Engineering Management track and the PEM track will be moved to the new MSEM Engineering Management program. All revisions received unanimous approval.

**Revisions to the Education, PhD, Social Science Ed track.** Will Russell presented the changes to this track. The request was to replace three of the current courses with Critical Issues in Social Studies Teacher Ed and 6 hours of Social Science Ed electives. All revisions received unanimous approval.

**Courses and special topics.** Weili Luo was present to provide a summary of the split class request for Physics. Discussion was held on the split class. The committee suggested going forward with just a 5000 level class and have undergraduates take that class. One problem was that it would cost more for them to take the 5000 level course. This course was approved as a 5000 level course (not split class) with one abstention. John Sacher provided rationale for the repeatability of the History courses and also on keeping the wording as graduate standing or C.I. These courses were approved as requested with three abstentions. Dr. Peppler gave a summary of the College of Medicine courses. These courses also received unanimous approval. For a complete list of courses approved, review the attached listing.

**Announcements and adjournment.** The meeting was adjourned at 1:30 p.m.

## **Graduate Council Curriculum Committee** **Course Minutes for 11-16-2011**

*All courses were approved unless otherwise noted. Any notation refers to the course directly below the notation.*

### **College of Arts & Humanities Course Action Additions**

**AMH 5XXX CAH-History 3(3,0)**

**Colloquium in US Military History:** PR: Graduate standing or C.I. Readings in selected topics in United States military history. May be used in the degree program a maximum of 3 times only when course content is different. *Occasional.*

29 of 30 character abbreviation: **Colloq in US Military History**

Rationale: This course is being offered to diversify our course offerings and add to the department's courses in graduate level United States history.

Discussion with others: No conflicts foreseen.

Effect on majors: History MA students

*AGENDA NOTES: Special Topic also being proposed.*

**ASH 5XXX CAH-History 3(3,0)**

**Colloquium in South Asian History:** PR: Graduate standing or C.I. Addresses key themes in South Asian history through selected readings. May be used in the degree program a maximum of 3 times only when course content is different. *Occasional.*

29 of 30 character abbreviation: **Colloq in South Asian History**

Rationale: This course is being offered to diversify our course offerings and add to the department's courses in graduate level Asian history.

Discussion with others: No conflicts foreseen

Effect on majors: History MA students

*AGENDA NOTES: Special Topic also being proposed.*

**EUH 5XXX CAH-History 3(3,0)**

**Colloquium in Medieval Europe:** PR: Graduate standing or C.I. Readings in selected topics in the history of medieval Europe. May be used in the degree program a maximum of 3 times only when course content is different. *Occasional.*

30 character abbreviation: **Colloquium in Medieval Europe**

Rationale: This course is being offered to diversify our course offerings and add to the department's courses in graduate level European history.

Discussion with others: No conflicts foreseen

Effect on majors: History MA students

*AGENDA NOTES: Special Topic also being proposed.*

**EUH 5XXX CAH-History 3(3,0)**

**European Imperialism:** PR: Graduate standing or C.I. Readings in selected topics in the history of European Imperialism. May be used in the degree program a maximum of 3 times only when course content is different. *Occasional.*

30 character abbreviation: **European Imperialism**

**Rationale:** This course is being offered to diversify our course offerings and add to the department's courses in graduate level European and world history.

**Discussion with others:** No conflicts foreseen

**Effect on majors:** History MA students

**AGENDA NOTES:** *Special Topic also being proposed.*

### **College of Medicine Course Action Additions**

**MEL 82XX**            **COM-Medicine 6(6,0)**

**Hematologic Oncology and Bone Marrow Stem Cell Transplantation:** PR: Successful completion of M3 core clerkships. Provides an in-depth exposure and experience in hematologic malignancies and bone marrow hematopoietic stem cell transplantation. Patients seen will have wide range of malignancies such as leukemia, lymphoma, myeloma, Hodgkins disease and bone marrow failure syndrome such as aplastic anemia. *Fall, Spring.*

30 of 30 character abbreviation: **Hematologic Onco & Bone Marrow**

**MEL 83XX**            **COM-Medicine 6(6,0)**

**Acting Internship Internal Medicine, Inpatient:** PR: Successful completion of M3 core clerkships. *Fall, Spring.*

26 of 30 character abbreviation: **Acting Intrn IM, Inpatient**

**MEL 83XX**            **COM-Medicine 6(6,0)**

**Gastroenterology Inpatient/Outpatient:** PR: Successful completion of M3 core clerkships. The student will develop an understanding of the pathophysiology of gastrointestinal disease and learn an approach to the evaluation and treatment of patients with gastrointestinal disease. *Fall, Spring.*

27 of 30 character abbreviation: **Gastroenterology Inpt/Outpt**

**MEL 83XX**            **COM-Medicine 6(6,0)**

**Infectious Diseases-Inpatient/Outpatient:** PR: Successful completion of M3 core clerkships. This course provides an in-depth exposure to the diagnosis and treatment of infectious diseases in the hospital and outpatient setting. *Fall, Spring.*

26 of 30 character abbreviation: **Infect Diseases Inpt/Outpt**

**MEL 83XX**            **COM-Medicine 6(6,0)**

**Nephrology Inpatient/Outpatient:** PR: Successful completion of M3 core clerkships. This course provides an in-depth exposure to the diagnosis and treatment of renal disease in the hospital and outpatient setting. *Fall, Spring.*

21 of 30 character abbreviation: **Nephrology Inpt/Outpt**

**MEL 83XX**            **COM-Medicine 6(6,0)**

**Pulmonary Elective:** PR: Successful completion of M3 core clerkships. Inpatient and outpatient management of pulmonary diseases and sleep disorders. *Fall, Spring.*

30 character abbreviation: **Pulmonary Elective**

**MEL 85XX COM-Medicine 6(6,0)**

**Congenital Cardiology:** PR: Successful completion of M3 core clerkships. In-depth exposure to pediatric cardiology including patients with congenital heart disease in the inpatient, outpatient, CVICU, and operative room settings. *Fall, Spring.*

30 character abbreviation: **Congenital Cardiology**

**MEL 88XX COM-Medicine 6(6,0)**

**Acting Internship Colon and Rectal Surgery:** PR: Successful completion of M3 core clerkships. The fourth year medical student on the colon and rectal surgery acting internship will build upon the surgical core M3 rotation and further explore the workup, diagnosis and treatment/follow-up of surgical diseases involving the colon, rectum and anus in both the inpatient and outpatient settings. *Fall, Spring.*

29 of 30 character abbreviation: **Act Intern Colon/Rectal Surge**

**MEL 88XX COM-Medicine 6(6,0)**

**Acting Internship in General Surgery:** PR: Successful completion of M3 core clerkships. Completion of core clerkship in surgery. The fourth year medical student on the General Surgery Acting Internship will build upon the surgical core M3 rotation and further explore the workup, diagnosis and treatment/follow-up of surgical diseases in both the inpatient and outpatient setting. *Fall, Spring.*

29 of 30 character abbreviation: **Acting Internship Gen Surgery**

**MEL 88XX COM-Medicine 6(6,0)**

**Acting Internship Pediatric Surgery:** PR: Successful completion of M3 core clerkships. The fourth year medical student on Pediatric Surgery (AI) will build upon their surgical clerkship experience with exposure to the workup, diagnosis and treatment/follow-up of surgical diseases involving neonates, infants and children in both the inpatient and outpatient setting. *Fall, Spring.*

29 of 30 character abbreviation: **Acting Internship Ped Surgery**

**MEL 88XX COM-Medicine 6(6,0)**

**Pediatrics Orthopaedics Elective:** PR: Successful completion of M3 core clerkships. This rotation will expose the student to a wide variety of pediatrics orthopaedic problems affecting the growing musculoskeletal system. *Fall, Spring.*

29 of 30 character abbreviation: **Pediatrics Orthopaedics Elect**

**MEL 88XX COM-Medicine 6(6,0)**

**Trauma and Orthopaedics Elective:** PR: Successful completion of M3 core clerkships. The course is designed to present to the student the basic aspects of orthopaedic care. *Fall, Spring.*

30 of 30 character abbreviation: **Trauma & Orthopaedics Elective**

**MEL 8XXX COM-Medicine 6(6,0)**

**Autopsy Pathology:** PR: Successful completion of M3 core clerkships. Provide the student with the opportunity for in-depth study and performance of complete autopsies. *Fall, Spring.*

30 character abbreviation: **Autopsy Pathology**

**MEL 8XXX COM-Medicine 6(6,0)**

**Clinical Pathology Methods and Interpretation:** PR: Successful completion of M3 core clerkships. The course is designed to acquaint the student with all aspects of a large hospital clinical laboratory. The

student will learn the capabilities of the laboratory by rotating through hematology, immunology, chemistry and microbiology. *Fall, Spring.*

30 of 30 character abbreviation: **Clinical Path Methods & Interp**

**MEL 8XXX COM-Medicine 6(6,0)**

**Diagnostic Hematology:** PR: Successful completion of M3 core clerkships. The student will be working closely with the hematopathologist, immunopathologist, clinical hematologists, senior residents and supervisors of the hematology section; he/she will both observe and participate in the usual studies performed in these areas. *Fall, Spring.*

30 character abbreviation: **Diagnostic Hematology**

**MEL 8XXX COM-Medicine 6(6,0)**

**Pathology & Laboratory Medicine:** PR: Successful completion of M3 core clerkships. Provides introduction to all areas of pathology practice with emphasis on anatomic pathology disciplines. *Fall, Spring.*

24 of 30 character abbreviation: **Pathology & Lab Medicine**

**MEL 8XXX COM-Medicine 6(6,0)**

**Pediatric Maxillofacial & Craniofacial Surgery Elective:** PR: Successful completion of M3 core clerkships. This course is designed to provide trainees with expanded clinical training in the areas of cleft, craniofacial and pediatric oral and maxillofacial surgery. *Fall, Spring.*

30 of 30 character abbreviation: **Ped Maxillofacial Craniofacial**

**MEL 8XXX COM-Medicine 6(6,0)**

**Surgical Pathology:** PR: Successful completion of M3 core clerkships. The course is designed to provide the student with the opportunity for surgical specimen preparation and interpretation. Emphasis is placed on normal gross and histologic findings, gross and microscopic pathology and clinicopathologic correlation of the patient's disease process. *Fall, Spring.*

30 character abbreviation: **Surgical Pathology**

### **College of Sciences Course Action Additions**

**PHY 5XXX COS-Physics 3(3,0) – APPROVED AS A STAND ALONE CLASS ONLY.**

**Physics of Fluids and Biofluids:** PR: EGN3343 and MAP 2302 or C.I. Ideal Fluids; Basic equation of fluid flow; Viscous flow, Instability and turbulence; Thermal and mass transfers in fluids; Biofluid mechanics of blood circulation. *Even Spring.*

29 of 30 character abbreviation: **Physics of Fluids & Biofluids**

**Rationale:** Although the name "condensed matter physics" has been in use for almost forty years, our curricula still mainly concentrate on solid state part of condensed matter physics, leaving the liquid state of condensed matter physics untaught. With many new emerging fields in physics such as "biophysics", "soft matter physics", "physics of colloids", "physics of complex fluids" where fluid is the essential part of the system under study, it has become apparent that it is necessary to incorporate physics of fluids into our curricula.

### Engineering & Computer Science Special Topics

**EML 5937C Sect 01 ECS-Mechanical/Matrls/Aerosp 3(3,2)**

**ST: Applied and Computational Biofluids:** PR: EML 4304C, EML 4703. Principles and foundations of applied fluid mechanics and computational methods to the human circulation. In addition to case studies, the course provides laboratory experiences in bioengineering with application to biofluid mechanics. *Occasional*.

30 of 30 character abbreviation: **ST Applied & Comput. Biofluids**

Rationale: This course is being offered as part of the deliverable of the New Florida Board of Governors Bioengineering Clustering Grant. The course expands MMAE's portfolio of bioengineering classes in the biofluids area.

Discussion with others: Consulted COM and they indicated no concerns (email attached).

*AGENDA NOTES: Course Addition also being proposed.*

### Engineering & Computer Science Course Action Additions

**EML 5XXXX ECS-Mechanical/Matrls/Aerosp 3(3,2)**

**Applied and Computational Biofluids:** PR: EML 4304C, EML 4703. Principles and foundations of applied fluid mechanics and computational methods to the human circulation. In addition to case studies, the course provides laboratory experiences in bioengineering with application to biofluid mechanics. *Odd Spring*.

24 of 30 character abbreviation: **Applied & Comp Biofluids**

Rationale: This course is being offered as part of the deliverables of the New Florida Board of Governors Bioengineering Clustering Grant. The course expands MMAE's portfolio of bioengineering classes in the biofluids area.

Discussion with others: Contacted COM and they indicated no concerns (email attached).

Effect on majors: none

*AGENDA NOTES: Special Topic also being proposed.*

### Engineering & Computer Science Course Action Deletions

**CWR 6532 ECS-Civil, Envir & Const Eng 3(3,0)**

**Modeling of Subsurface Reactive Chemical Transport:** PR: CWR 6126 or ENV 6055 or C.I. Mathematical formulations of geochemical equilibrium and kinetics, hydrological transport of chemicals, innovative numerical schemes to solve reactive chemical transport in subsurface media, design, and application of software for numerical solutions. *Occasional*.

Rationale: Department does not have plans to offer this course in the future.

Effect on majors: -----10/20/2011: This course is not used as a prerequisite.

**EES 5605 ECS-Civil, Envir & Const Eng 3(3,0)**

**Outdoor Noise Control:** PR: C.I. Community noise evaluation and control, legislative standards, instrumentation and measurement, abatement methods, and noise modeling. *Occasional*.

Rationale: Department does not have plans to offer this course in the future.

Effect on majors: -----10/20/2011: This course is not used as a prerequisite.

**ENV 5071**            **ECS-Civil, Envir & Const Eng**     **3(3,0)**  
**Environmental Analysis of Transportation Systems:** PR: CWR 3201; ENV 3001. Prediction and abatement of pollution from transportation sources. Analysis techniques and environment laws. *Occasional*.  
Rationale: Department does not have plans to offer this course in the future.  
Effect on majors: -----10/20/2011: This course is not used as a prerequisite.

**ENV 5116C**            **ECS-Civil, Envir & Const Eng**     **3(2,3)**  
**Air Pollution Monitoring:** PR: C.I. Air Pollution sampling techniques, equipment, and monitor siting. Emphasis on theory and direct applications in air pollution monitoring. *Occasional*.  
Rationale: Department does not have plans to offer this course in the future.  
Effect on majors: -----10/20/2011: This course is not used as a prerequisite.

**ENV 5334**            **ECS-Civil, Envir & Const Eng**     **3(3,0)**  
**Characterization of Hazardous Waste Sites:** PR: CWR 4101C and ENV 4341 or C.I. Practical and comprehensive methods of hazardous waste site characterization to determine site properties, contamination type, magnitude and risk, and remedial actions. *Occasional*.  
Rationale: Department does not have plans to offer this course in the future.  
Effect on majors: -----10/20/2011: This course is not used as a prerequisite.

### College of Education Course Action Additions

**PET 6XXX**            **ED-Child, Family & Comm Sci**     **3(3,0)**  
**Dietary and Nutritional Supplementation:** PR: Graduate standing or C.I. An in-depth study of the efficacy of dietary and nutritional supplements used to enhance athletic performance and improve activities of daily living. *Even Spring*.  
26 of 30 character abbreviation: **Dietary & Nutritional Supp**  
Rationale: To increase the course offerings for Exercise Science graduate students.  
Discussion with others: A course similar to this does not exist on UCF campus.  
Effect on majors: Exercise Science graduate students.

**PET 6XXX**            **ED-Child, Family & Comm Sci**     **3(3,0)**  
**Physiological Aspects of Sport and Training:** PR: Admission to program or C.I. An in-depth study of adaptations of various physiological systems to exercise training and the effects of environmental factors on physiological systems and performance. *Even Fall*.  
29 of 30 character abbreviation: **Phys Aspects Sport & Training**  
Rationale: Program revisions are in progress. This course will be added to the Sport and Exercise Science program.  
Effect on majors: Exercise Science graduate students.

**PET 6XXX**            **ED-Child, Family & Comm Sci**     **3(3,0)**  
**Program Design in Strength and Conditioning:** PR: Admission to the program or C.I. An in-depth study of various types of training, including insights on developing athletes' strength, power, anaerobic conditioning, endurance, agility, and speed. *Odd Spring*.  
22 of 30 character abbreviation: **Program Design and S&C**



Rationale: To provide additional course offerings for graduate students in the program.

Effect on majors: Exercise Science graduate students.

**PET 6XXX**      **ED-Child, Family & Comm Sci**      **3(3,0)**

**Sport Nutrition:** PR: Admission to the program or C.I. Study of the proper nutrition for training, the role of macro and micronutrients on the physiological processes of the body, and the importance of nutrient timing. *Even Fall.*

30 character abbreviation: **Sport Nutrition**

Rationale: To provide additional course offerings for Exercise Science graduate students.

Effect on majors: Exercise Science graduate students.

**PET 7XXX**      **ED-Child, Family & Comm Sci**      **3(3,0)**

**Exercise Endocrinology:** PR: Admission to the program or C.I. An in-depth study of the neuroendocrine system and the hormonal responses to exercise. *Occasional.*

30 character abbreviation: **Exercise Endocrinology**

Rationale: To increase course offerings for Exercise Science/Physiology graduate students.

Effect on majors: Exercise Science/Physiology graduate students.

**Tabled. Check with department regarding a prereq.**

**SSE 7XXX**      **ED-Teach, Learn & Leadership**      **3(3,0)**

**Critical Issues in Social Studies Teacher Education:** An examination of the relevant literature surrounding the research and practice of social studies teacher education. The course examines the major themes, ideas, perspectives, and programs. *Even Fall.*

29 of 30 character abbreviation: **Crit Iss in Soc St Teach Educ**

Discussion with others: There is no other course similar at UCF.

Effect on majors: PhD in Education--Social Science Education track and the EdD in Education.

### **Health & Public Affairs Course Action Additions**

**HIM 6XXX**      **HPA-Health Mangt & Informatic**      **1(1,0)**

**Foundation of Health Services Administration:** PR: Admission to Health Care Informatics or C.I. Provides students with an understanding of the managerial and administrative aspects in a health care environment, as it relates to health care informatics. *Spring.*

27 of 30 character abbreviation: **Found Health Services Admin**

Rationale: Provides a basic knowledge of health services administration in a health care environment for students who do not have an administrative background.

Discussion with others: N/A

**HIM 6XXX**      **HPA-Health Mangt & Informatic**      **1(1,0)**

**Medical Terminology for Informatics Professionals:** PR: Admission to Health Care Informatics or C.I. Provides students with medical terminology used or found in the medical environments and discuss the role the language of medicine plays in informatics. *Spring.*

30 of 30 character abbreviation: **Med Term for Informatics Profs**

Rationale: Provides a basic knowledge of medical terminology for students in Health Care Informatics who do not have a clinical background.



Discussion with others: The only potential overlap is within Health Management and Informatics. This has been discussed and determined that the focus of the class is much narrower and relates solely to HCI.

**HIM 6XXX HPA-Health Mangt & Informatic 1(1,0)**

**Survey of Health Information Management:** PR: Admission to Health Care Informatics or C.I. Provide students with an understanding of computer information systems utilized in a health care environment. *Fall.*

29 of 30 character abbreviation: **Survey Health Info Management**

Rationale: Provide students with a basic knowledge of health information technology utilized in a health care environment who do not have a computer or technical background.

Discussion with others: The only potential overlap is within the HIM department. This has been discussed and determined that the focus of this class is much narrower and relates solely to HCI.

**HIM 6XXXC HPA-Health Mangt & Informatic 4(3,1)**

**Health Care Database Management:** PR: HIM 5118C. To develop advanced skills necessary for the design and management of healthcare organization databases and their use in computer-based information systems. *Fall.*

25 of 30 character abbreviation: **Health Care Database Mgmt**

Rationale: This course provides students with the necessary skills for the design and management of healthcare organization databases and their use in computer-based information systems.

Discussion with others: NA

Effect on majors: Health Care Informatics

**College of Sciences Course Action Revisions**

**CHS 5503 Topics in Forensic Science 3(3,0)**

~~PR: Graduate status or C.I.~~ PR: Admission to Digital Forensics MS or Computer Forensics graduate certificate or C.I.

~~Will include the history of Forensic Science and current issues such as Digital Evidence.~~

History and current topics in Forensic Science.

Rationale: This course is for only students that have been enrolled at UCF in the MS in Digital Forensics(MSDF) and the Graduate Certificate in Computer Forensics (GCCF) goes through UCF Continuing Education

Effect on majors: Digital Forensics MS

**Engineering & Computer Science Course Action Revisions**

**CES 6116 Finite Element Structural Analysis 3(3,0)**

PR: CES 4101 ~~5144~~ or C.I.

Concept, theory, and application of the finite element method; analysis of one-, two-, and three-dimensional structural components and systems; stability and dynamics; applications.

**CES 6527 Nonlinear Structural Analysis 3(3,0)**

PR: CES 4101 ~~or CES 5144~~ or C.I.

Structural nonlinear analysis theory and applications, including material and geometric nonlinearity, numerical methods and solution strategies, inelastic element formulation, and use of software packages.

**CWR 5125 Groundwater Hydrology 3(3,0)**

PR: CWR 4203C or equivalent. 4633C or C.I.

Theories of groundwater movement, geological factors, analysis and design techniques, etc. Emphasis on practical considerations.

**CWR 5205 Hydraulic Engineering 3(3,0)**

PR: CWR 4101C and CWR 4203C. 4633C or C.I.

Concepts of fluid mechanics and hydrodynamics applied to natural and man-made flow of interest to civil and environmental engineering.

**CWR 5515 Numerical Methods in Civil and Environmental Engineering 3(3,0)**

PR: CWR 4101C, CWR 4203C. 4633C or C.I.

This course will present intermediate to advanced numerical methods theory and include code development and error assessment, while targeting civil and environmental engineering applications.

**CWR 5545 Water Resources Engineering 3(3,0)**

PR: CWR 4101C, CWR 4203C. 4633C or C.I.

Systems identification and solution to complex water allocation problems, and other hydraulic engineering designs and operations using economic analysis and operations research techniques.

**CWR 6102 Advanced Hydrology 3(3,0)**

PR: CWR 4101C 4633C or C.I.

Single site and regional frequency analysis; modeling hydrologic systems; lumped and distributed event models for urban and natural drainage basins; continuous simulation; real-time forecasting.

**CWR 6236 River Engineering and Sediment Transport 3(3,0)**

PR: CWR 4203C and CWR 4101C. 4633C or C.I.

River morphology and regime with stabilization and modification of river courses. Sediment transport including control methods and modeling.

**CWR 6535 Modeling Water Resources Systems 3(3,0)**

PR: CWR 4101C and CWR 4203C. 4633C or C.I.

Contemporary mathematical models for water quality and quantity considerations including computer-based hydraulic and hydrologic models.

**TTE 5204 Traffic Engineering 3(3,0)**

PR: TTE 4004. 3810 or C.I.

Study of operator and vehicle characteristics, and design for street capacity, signals, signs, and markings.

**TTE 5805 Geometric Design of Transportation Systems 3(3,0)**

PR: TTE 4004 3810 or C.I.

Study of highway geometric design in the engineering of transportation systems.

**Tabled. Check with department regarding a higher level prerequisite. Update: department will be sending through new prereq. information.**

**TTE 6205 Highway Capacity 3(3,0)**

PR: TTE 4004 3810 or C.I.

Highway capacity for all functional classes of highway. Traffic signalization including traffic studies, warrants, cycle length, timing, phasing and coordination.

**Tabled. Check with department regarding a higher level prerequisite. Update: department will be sending through new prereq. information.**

**TTE 6256 Traffic Operations 3(3,0)**

PR: TTE 4004 and STA 3032 3810 or C.I.

Fundamental theories and applications of traffic movements on streets and highways.

**Tabled. Check with department regarding a higher level prerequisite. Update: department will be sending through new prereq. information.**

**TTE 6270 Intelligent Transportation Systems 3(3,0)**

PR: TTE 4004 3810 or C.I.

Theories and applications of intelligent vehicle highway systems in transportation engineering.

**Tabled. Check with department regarding a higher level prerequisite. Update: department will be sending through new prereq. information.**

**TTE 6315 Traffic Safety Analysis 3(3,0)**

PR: TTE 4004 and C.I. 3810 or C.I.

Understanding crash research concepts, and identifying factors contributing to traffic crash occurrence.

### **College of Education Course Action Revisions**

~~**PET 6515C Measurement in Kinesiology and Physical Education– 3(3,0)**~~

**PET 6515 Assessment and Evaluation in Sport and Exercise Science**

PR: Admission to the program of C.I.

Techniques of ~~measurement~~ assessment and evaluation of human performance and their applications to ~~physical education.~~ health, sport, and exercise science.

17 of 30 character abbreviation: **Assess & Eval SES**

Rationale: Program revisions are underway. This course will be added as a required course. The name change and the revised course description better reflect the content to be taught in the course. Additionally, the program no longer offers a Physical Education degree program.

Discussion with others: n/a

Effect on majors: Exercise Science graduate students.

~~**PET 6690 Exercise Testing and Prescription for Special Populations– 3(3,0)**~~

**Exercise Prescription for Special Populations**

PR: PET 6388. PR: Admission to the program or C.I.

Designed to provide the student the basic understanding of exercise testing and prescription as it pertains to special populations.

25 of 30 character abbreviation: **Exercise Prescr Spec Pops**

Rationale: The course title change better reflects the course content.

Discussion with others: n/a

Effect on majors: Exercise and Science graduate students.

### **Health & Public Affairs Course Action Revisions**

**SPA 6820 Leadership Project in School Speech-Language Pathology 3(3,0)**

~~PR: Graduate standing.~~ PR: Admission to MA in Communication Sciences & Disorders or CI.

Development and completion of a clinical or research project pertaining to school-based practice.

**SPA 6211C Voice Disorders 4(3,1)**

~~PR: Graduate standing.~~ PR: Admission to MA in Communication Science & Disorders or CI.

Study of the etiology, evaluation, and management of voice disorders in children and adults, with laboratory demonstration and participation.

**SPA 6225C Fluency Disorders 4(3,1)**

~~PR: Graduate standing.~~ PR: Admission to MA in Communication Science & Disorders or CI.

Study of the theories, etiology, symptomatology and development of fluency disorders as well as assessment, differential diagnosis and management of disorders of fluency in children and adults with fluency failures.

**SPA 6236 Motor Speech Disorders in Adults and Children 3(3,0)**

~~PR: Graduate standing.~~ PR: SPA 6204 or CI.

Evaluation and treatment of dysarthrias, apraxias, and other motor speech disorders in adults and children associated with neurological problems, brain injury and systemic disease.

29 of 30 character abbreviation: **Motor Speech Dis Adults/Child**

**SPA 6410 Aphasia and Related Disorders 3(3,0)**

~~PR: Graduate standing.~~ PR: Admission to MA in Communication Science & Disorders or CI.

Evaluation and treatment of language disorders in adults with damage to the central nervous system, with an emphasis on etiology and differential diagnosis.

**SPA 6417 Cognitive/Communicative Disorders 3(3,0)**

~~PR: SPA 6410.~~ 6410 or CI.

Evaluation and treatment of right hemisphere dysfunctions, traumatic brain injury, and dementias, with special emphasis on memory, cognition, pragmatics and other issues affecting functional communication.

30 of 30 character abbreviation: **Cognitive Communicatv Disorders**

**SPA 6432 Issues in Autism 3(3,0)**

~~PR: Graduate standing.~~ PR: SPA 6402 or CI.

Study of the diagnosis, assessment and intervention strategies for autism and related disorders.

**SPA 6437 Communication Foundations and Assistive/Instructional Technology for Communication 3(3,0)**

PR: Graduate standing, Status or CI.

Classroom approaches involving assistive/instructional technology used to meet communication needs of students with autism spectrum disorders and other communicative disorders.

**SPA 6451**      ~~Theory & Clinical Aspects Cognitive-Commun. Disorders in Traumatic Brain Injury~~  
**3(3,0)**

Theory and Clinical Aspects Cognitive-Comm Disorders in Traumatic Brain

Injury

~~PR: Graduate standing or C.I.~~ PR: Admission to MA in Communication Science or CI.

Impact of traumatic brain injury on neurological, cognitive-communication and social performance of school-aged and post-secondary students, including identification of co-morbid conditions, recovery patterns and interviewing.

28 of 30 character abbreviation: Theory & Clin Aspects in TBI

**SPA 6453**      **Management of Cognitive-Communication Disorders in Traumatic Brain Injury**  
**3(3,0)**

PR: SPA 6452, ~~graduate standing, or C.I.~~ 6452 or CI.

Management of cognitive-communication disorders in traumatic brain injury of school-aged and post-secondary students with emphasis on attention, perceptual skills, executive function, learning and social interaction.

29 of 30 character abbreviation: Mgmt Cognitive-Com Dis in TBI

**SPA 6474**      **Assessment and Management of Culturally and Linguistically Diverse Populations**  
**3(3,0)**

~~PR: SPA 4478 or SPA 5473.~~ PR: Admission to MA in Communication Science or CI.

Role of native and second languages, dialects and culture in the assessment and management of individuals from culturally and linguistically diverse backgrounds.

30 of 30 character abbreviation: Assessmt & Mgmt of Diverse Pop

**CCJ 5015**      **The Nature of Crime**      **3(3,0)**

PR: Admission to Criminal Justice ~~Master's program~~ graduate degree, graduate certificate or C.I.

This course provides an overview of major dimensions of crime in the U.S.; epidemiology of crime, costs of crime, and typologies of crime and criminals.

**CCJ 5456**      **The Administration of Justice**      **3(3,0)**

PR: Admission to Criminal Justice ~~Master's~~ graduate degree program, graduate certificate program or C.I.

This course provides an overview of the criminal justice system and a critical analysis of formal and informal processing of offenders by criminal justice agencies.

**CCJ 5934**      **Criminal Justice Investigative Process**      **1(1,0)**

PR: Graduate standing or C.I.

Advanced seminar providing students with a broad view of how ~~criminal justice investigative processes operate.~~ the criminal justice investigative process operates. Focus on the roles and responsibilities of agents as investigators. May be used in the degree program a maximum of ~~4 times.~~ 3 times only when course content is different.

**CCJ 6027 Criminal Justice Responses to Terrorism 3(3,0)**

~~PR: Graduate standing.~~ PR: Admission to Criminal Justice graduate program or C.I.

Critically examines phenomena of domestic and international terrorism to give students a solid grounding of salient issues in developing crime control strategies to prevent terrorism and mount appropriate responses to incidents.

**CCJ 6051 Community Justice 3(3,0)**

~~PR: CCJ 5015.~~ PR: Admission to Criminal Justice graduate degree, graduate certificate or C.I.

~~Examines the emergence of community justice as a major perspective in the U.S. punishment system.~~  
Examines concepts of community justice as they relate to an alternative form of administering criminal justice.

**CCJ 6067 Perspectives on Genocide 3(3,0)**

~~PR: CCJ 5456, CCJ 5015,~~ PR: Admission to Criminal Justice graduate program or C.I.

This course provides a critical examination of criminal justice perspectives on genocide.

**CCJ 6106 Policy Analysis in Criminal Justice 3(3,0)**

PR: Admission to Criminal Justice graduate program, graduate certificate or C.I.

This course is designed to familiarize students with the causes and consequences of public policy with an emphasis on criminal justice policy.

**CCJ 6431 Leadership and Ethics in Criminal Justice 3(3,0)**

~~PR: CCJ 5456 or C.I.~~ PR: Admission to Criminal Justice graduate program, graduate certificate or C.I.

Examines the leadership issues faced by decision makers in the criminal justice system.

25 of 30 character abbreviation: **Leadership & Ethics in CJ**

**CJC 5020 Foundations of Corrections 3(3,0)**

~~PR: C.I.~~ PR: Admission to Criminal Justice graduate program, graduate certificate or C.I.

Provides an overview of correctional process in U.S., including philosophical foundations and contemporary practices.

**CJE 5021 Foundations of Law Enforcement 3(3,0)**

~~PR: C.I.~~ PR: Admission to Criminal Justice graduate program, graduate certificate program, or C.I.

Examines police role in modern society and law enforcement policy.

**CJJ 6020 The Juvenile Justice System 3(3,0)**

PR: Admission to Criminal Justice graduate program, graduate certificate, or C.I.

This course will focus on the development and philosophy of the Juvenile Justice System; the measurement of delinquency, theories and correlates of delinquency and prevention.

**CJL 6568 Law and Social Control 3(3,0)**

PR: Admission to Criminal Justice graduate program, graduate certificate or C.I.

This course will examine the types of behavior the state has sought to control and the means employed to exert such control.

**Tabled. Check with department regarding the prerequisites.**

**HIM 6816     ~~Practicum in Health Care Informatics~~     3(3,0)**  
**Health Care Informatics Capstone**

PR: HIM 5118C; HIM 6119C; HIM 6122C; HIM 6123C; HIM 6464C; HIM 6117C; HIM 6124C; HIM 6935.

The practicum course addresses the process of transforming data to information, knowledge and practice in a health care setting. An operations management challenge that is amenable to IT interventions in a health care organization shall be identified.

25 of 30 character abbreviation: **Health Care Info Capstone**

**HSA 6128     Health Care Services Management     3(3,0)**

~~PR: Graduate status.~~ PR: Admission to the Health Services Administration graduate program or C.I.

Conceptization and development of customer service in health care organizations. The focus is on the links between theory and practical applications.

**HSA 6342     Health Care Human Resources     3(3,0)**

~~PR: Graduate status.~~ PR: Admission to the Health Services Administration graduate program or C.I.

Study of health care organizations, including modern management, human performances, and leadership.

**HSA 6385     Health Care Quality Management     3(3,0)**

~~PR: Graduate status.~~ PR: Admission to the Health Services Administration graduate program or C.I.

Mechanisms of enhancing quality of service and care.

**PHC 6000     Epidemiology     3(3,0)**

~~PR: Graduate status.~~ PR: Admission to the Health Services Administration graduate program or C.I.

A study of the distribution and determination of diseases and injuries in human populations.

**PHC 6146     Health Planning and Policy     3(3,0)**

PR: Admission to Health Services Administration graduate program or C.I.

Review of the determinants of the revolution of the health care system in the United States; analysis of public health, preventive medicine, and therapeutic medicine in terms of quality, access, and cost; methodologies and issues in comprehensive health planning; and trends in health policy development.

**PHC 6420     Case Studies in Health Law     3(3,0)**

PR: Admission to the Health Services Administration graduate program or C.I.

Health law including patient care, liability, malpractice, workmen's compensation, and legal responsibilities of health personnel.