MINUTES
THE WEST VIRGINIA UNIVERSITY FACULTY SENATE
DECEMBER 11, 2006

1. Professor Parviz Famouri, Faculty Senate Chair, called the meeting to order at 3:15 PM in Assembly Rooms A/B, NRCCE.

Member Present:

Abbott, J.	Culberson, J.	Jacknowitz, A.	Napolitano, M.	Sherwood, L.
Ameri, S.	Cumming, J.	Kershner, R.	Nath, C.	Steranka, P.
Anderson, R.	D'Souza, G.	Kite, S.	Nestor, P.	Stewart, B.
Atkins, C.	Davari, A.	Kleist, V.	Olson, K.	Stockdale, T.
Bagby, M.	Dixon, S.	Kuhlman, J.	Peace, G.	Stolzenberg, A.
Behling, R.	Etzel, E.	LaGodna, B.	Petronis, J.	Stuchell, R.
Bergner, G.	Fitch, C.	Lake, M.	Richards, A.	Tauger, M.
Bilgesu, I.	Garbutt, K.	Lastinger, M.	Riemenschneider, S.	Townsend, C.
Bonner, D.	Gladwin, M.	Lively, M.	Riley, W.	Urbanski, J.
Branch, D.	Griffith, R.	Long, K.	Robbins, J.	Valenti, M.
Brown, G.	Hartman, K.	Mancinelli, C.	Royall, B.	Weihman, L.
Bryan, W.	Held, J.	Mays, M.	Sand-Jecklin, K.	Wilcox, G.
Buchanan, T.	Hill, R.	McDiarmid, M.	Sedgeman, J.	Woloshuk, J.
Campbell, L.	Hoey, J.	Miller, M.	Selin, S.	
Clark, N.	Hornak, L.	Mullett, C.	Shambaugh, N.	
Cohen, S.	Hornsby, G.	Mutz, C.	Shelton, E.	

Members Absent:

Almond, C.	Cottrell, S.	Howard, S.	Melton, P.	Valentine, S.
Banta, L.	Dedhia, H.	Hurst, M.	Morgan, D.	Verlinden, S.
Bowen, E.	Dillis, C.	Iskander, W.	Nuss, M.	Vona-Davis, L.
Brooks, R.	Douglas, W.	Jones, R.	Nutter, R.	Walker, E.
Bryner, R.	Gerbo, R.	Latimer, M.	Price, S.	Wright, F.
Canfield, P.	Graeber, J.	Mandich, M.	Putman, H.	
Cook, L.	Grose, K.	McGinley, P.	Siegrist, J.	
Cottrell, L.	Hall, D.	McNerney, K.	Simile, R.	

2. President Hardesty wished everyone a happy holiday and invited them to the Blaney House for a holiday reception following the Faculty Senate meeting.
3. It was moved and duly seconded to approve the minutes from the November 13, 2006 meeting. Motion carried.
4. Chair Famouri reported on the following issues:
   - The presidential search is moving along; ads have been placed in publications and newspapers; applications are being received. Screening of applications will begin at the end of next week.
   - An ad-hoc committee (CCCP) has been formed to review curriculum committee procedures. Members are: Gwen Bergner, Steve Kite, Nigel Clark, Keith Garbutt, Mary Strife and Cheryl Torsney. The committee will have a report for the Executive Committee at its March meeting.
   - Nancy Lohmann, representing the Transportation and Parking Committee, will have a report for the Faculty Senate at its January meeting.
   - Sue Ann Lupinski, Identity Management Project, is moving forward with a review of user "sign-ons" (user names and passwords).

- Requested appropriate issues that the senate could debate; items that the Senate can do something about.
- WVU has been invited to join the Coalition of Intercollegiate Athletics (COIA). Chair Famouri will meet with Past Chair Chris Wilkinson, who was Faculty Senate Chair when WVU was first invited to join the Coalition, to discuss this matter. Professor Wilkinson investigated and reported on WVU athletics at that time. Chair Famouri will report back to the Senate at a future meeting.
- Chair Famouri presented President Hardesty a signed copy of his new book: *Reduced Order Systems*.

5. The following Curriculum Committee and General Education Oversight Committee Reports were approved from the consent agenda:

- Curriculum Committee Reports:

  For Approval – New Courses and Course Changes – Annex I
  For Information – Alteration Report – Annex II

- General Education Oversight Committee Report:

  For Approval – Course Recommendations – Annex III

6. Chancellor Brian Noland addressed four topics:

   1. Access. Access is West Virginia's number one challenge. The state's number one investment needs to be on improving transition rates from high school to college. Only 16.9% of West Virginians have a baccalaureate degree. Out of every 100 ninth grade students only 71 graduate high school, 38 attend college, and 14 graduate in six years with a baccalaureate degree.
   2. Affordability. WVU is an affordable institution. Out of the 16 states in the Southern Regional Education Board, the median undergraduate in-state tuition and fees in West Virginia ranks 11th. South Carolina is most expensive at the #1 ranking, and Georgia is least expensive at #16.
   3. Student preparation. Expectations of students and their parents have increased.
   4. Funding. There has been a decline in state appropriations. To off-set this, institutions are raising tuition and fees. Priorities approved by the HEPC Board last month that will be taken to the Governor and Legislature include: significant investment in need-based financial aid; 14.7 million dollars in new operating revenues; 15 million additional dollars in academic research funding; and additional funding for capital projects.

   Chancellor Noland had a handout titled: "Overview of West Virginia Higher Education Policy Commission Budget Request 12-06-06". A powerpoint presentation (Profiles and Trends in West Virginia Higher Education) is available at http://www.wvhepc.org/commission/profilesandtrends_1206.ppt

7. There was no new business.
8. The meeting adjourned at 4:08 p.m. to reconvene on Monday, January 8, 2007.

Linda Cunningham
Secretary

To: Faculty Senate Executive Committee
From: Gwen Bergner, Chair, Faculty Senate Curriculum Committee
Date: November 27, 2006
Re: New Courses and Course Changes

DAVIS COLLEGE OF AGRICULTURE, FORESTRY AND CONSUMER SCIENCES
New Course:

PLANT AND SOIL SCIENCES

PPTH 409. Nematology. 3 Hr. Nematode biology, ecology, taxonomy, and control, with particular emphasis on plant parasitic forms. (Offered in Spring of odd years). (Effective Term: Spring 2007) (CIP-260305)

Rationale: This course will review basic biology and management of a significant taxonomic group of microorganisms. This course is intended to be taught concurrently with PPTH 509, Nematology, which has been previously offered for graduate credit. PPTH 509 has previously had limited undergraduate enrollment, and was occasionally taught as a Special Topics course to accommodate undergraduates. The undergraduate course number is proposed to provide support for the undergraduate minor in Environment Microbiology, as well as to support the recently-approved major in Applied and Environmental Microbiology. The course has already been approved at the 500 level for these curricula, however, enrollment by undergraduates in 500 level courses is limited to students with high grade point averages. Offering the course at a 400 level will expand opportunities for more undergraduates to receive this training and to take the course at a level commensurate with their academic background.

EBERLY COLLEGE OF ARTS AND SCIENCES
New Courses:

COMMUNICATION STUDIES

COMM 315. American Diversity in Film. 3-Hr. This course explores films that show the diversity of individuals who live in the United States of America. Films will show characters of different ages, ethnicity, gender, sexual orientation, race, religion, region, and social class. (Effective Term: Summer 2006) (CIP-099999)

Rationale: Many students will be exposed (via film and readings) to aspects of American culture that they are unfamiliar with. This course adds an alternative (course) for two underrepresented GEC objectives. This course will count towards credit for the major.

COUNSELING

CPSY 740. Assessment of Psychopathology. 3Hr. PR: CPSY 701, CPSY 760 and CPSY 769. Assessment and diagnosis of psychopathology, integration of case data, treatment planning from a developmental, multicultural perspective with emphasis on ethical and socially responsible

interventions, collaboration of counseling psychology with other health care providers. (Effective Term: Fall 2007) (CIP-420601)

Rationale: The accreditation standards for Counseling Psychology are overseen by the American Psychological Association (APA) and published in the "Guidelines and Principles for Accreditation of Program in Professional Psychology" (APA, 2005). They write that certain values lie at the core of the profession including, "Broad and general preparation for practice at the entry level". This is further defined to include developing and demonstrating competence in several substantive areas, one of which is "dysfunctional behavior or psychopathology". The course being proposed, *Assessment of Psychopathology* is designed and intended to address this objective.

The diagnosis and assessment of mental disorders lies at the center of the professional practice of psychology. Licensed psychologists are expected to be able to accurately and consistently apply the standard nomenclature and taxonomy found in the Diagnostic and Statistical Manual of Mental Disorders published by the American Psychiatric Association. This process of assessment and diagnosis involves integration of a considerable range of data including clinical interviews, psychometric assessment, case history and theoretical formulation. Design and implementation of a treatment intervention completely depends on the skills and accuracy with which this task is accomplished by psychologists in hospital, clinical, school or private practice settings. It requires that the practicing psychologist commit to memory a significant array of information and decision-making strategies for the competent and ethical use of existing psychiatric and psychological diagnostic systems. Knowledge and familiarity, the general research findings, and with the basic research tools, models and approaches to the expansion of knowledge and understanding in this area are also vital aspects of the assessment of pathology and dysfunction.

This course will provide instruction and learning experiences aimed at imparting the theoretical knowledge, applied skills and professional values implied in the description of Counseling Psychology given by the APA.

AIR FORCE ROTC

USAF 100. Leadership Laboratory. 1-Hr. Dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force junior officers and complement the AFROTC academic program. Leadership Laboratory enrollment is restricted to AFROTC cadets. (Effective Term: Fall, 2006) (CIP – 290101)

Rationale: AFROTC cadets, those student members of AFROTC pursing a commission in the USAF after graduation, must enroll in Leadership Laboratory each semester. Leadership Laboratory activities and experiences, in conjunction with other AFROTC program requirements, provide skills necessary to become a successful Air Force junior officer. Currently, Leadership Laboratory is a co-requisite section of AFROTC academic lecture courses with no semester hours or grades awarded. Defining Leadership Laboratory as a separate course would not alter the current course objectives or format in any way. In effect, our proposal to create a Leadership Laboratory course is only to allow Pass/Fail grade reporting as a mechanism to independently assess performance and proficiency in meeting laboratory objectives without

necessarily considering performance in accompanying AFROTC academic courses. Although Leadership Laboratory would be a singularly defined course to be taken each semester for up to eighteen semesters total, distinctive sets of course objectives would be applied according to academic status/cadet category within AFROTC-just as it is now. By offering Leadership Laboratory on a P/F basis with independent assessment of laboratory performance, WVU's AFROTC program follows guidelines established by the Air Force Office Accession Training Schools, the governing body for AFROTC programs nationwide.

RELIGIOUS STUDIES
Course Change:

From:

RELG 250. Biblical Ethics/Current Issues. 3 Hr. Principle types of ethics; biblical teaching on sin, guilt, law, grace, the state, perfection, etc. with application to contemporary issues; bioethics, euthanasia, ecology, sex, cybernation, etc.

To:

RELG 350. Biblical Ethics/Current Issues. 3 Hr. Introduction to biblical ethics and its application to current issues. Issues such as war, the environment, and biotechnology are explored by interpreting biblical texts as a touchstone of ethical principles and values. (Effective Term: Spring, 2007) (CIP-380201)

Rationale: RELG 250 is a Cluster A course. Students will have the opportunity to study current events from a modern and historical perspective via the study of relevant modern texts and the Bible. Students will learn how the study of ethics applies to ancient and modern human culture from a critical thinking perspective. In addition, RELG 350 will have more stringent requirements than RELG 250. Students will have more required readings, more thorough textual interpretation, and a lengthy research paper. Hence, RELG 350 merits a Cluster A listing. RELG 350 will also help bring our course curriculum in line with other university programs.

COLLEGE OF BUSINESS AND ECONOMICS
New Courses:

FINANCE

FIN 411. Derivatives. 3-Hr. PR: FIN 310. Examines derivatives markets with an emphasis on options. Introduces the concept of arbitrage and its implications for derivatives equilibrium pricing. Application of derivatives in financial risk management. Trading strategies used for hedging, speculation and arbitrage. (Effective Term: Fall, 2006) (CIP-520801)

Rationale: Along with FIN 410, Security Analysis and Portfolio Management, this course covers advanced-level material essential for finance majors interested in investments. Students will normally take this course in their senior year. The course builds on concepts and skills mastered in FIN 310, Investments, and FIN 330, Financial Institutions. The material learned in

this course will be instrumental for students taking FIN 455, Risk Management, FIN 461, Advanced Bank Management, and Trading Financial Instruments (currently designated as FIN 493K).

ECONOMICS

ECON 453. Economic Transition in Europe. 3-Hr. PR: ECON 201 and ECON 202. Socialism and transition from socialism to capitalism. The experiences of the European transitional economies. Requires travel to one of the transitional economies at students' expense. (Effective Term: Spring, 2006) (CIP-520601)

Rationale: Experiential learning. Students will learn about one of the transitional economies discussed in class by actually going there and experiencing the operation of markets and economic institutions and discuss transition with scholars in that country. Studying transitions is an excellent way to learn the basic economic principles of economics as it so well illustrates how dependent markets are on well-functioning institutions. In addition, economic transition is one of the dominant economic issues of our time.

COLLEGE OF ENGINEERING AND MINERAL RESOURCES
New Courses:

CIVIL AND ENVIRONMENTAL ENGINEERING

CE 436. Pedestrian/Bike Transportation. 3-Hr. Planning, design, operation and maintenance of pedestrian and bicycle facilities, including multi-use trails; policies to encourage non-motorized travel; traffic calming; accessibility and ADA requirements; connections to transit. (Effective Term: Spring, 2006) (CIP – 140801)

Rationale: This new course, in an area of significant current interest, will provide an additional technical elective opportunity (in the transportation area) in the new civil engineering curriculum.

CE 531. Pedestrian/Bike Transportation. 3-Hr. Planning, design, operation and maintenance of pedestrian and bicycle facilities, including multi-use trails; in-depth examination of policies, programs and design principles to encourage non-motorized travel. (Effective Term: Spring, 2007) (CIP – 140801)

Rationale: The transportation engineering concentration in the CE graduate program has long been multi-modal in nature, covering roadway, railway, transit and airports. Given the recent emphasis nationally on non-motorized transport, and the importance of non-motorized considerations in every transportation project, a course on this topic is needed so that the principal modes of transportation continue to be covered in the graduate transportation engineering program.

COLLEGE OF HUMAN RESOURCES AND EDUCATION
New Course:

CURRICULUM & INSTRUCTION

C&I 649. History/Philosophy of Science. 3 Hr. Examines the nature of science and how social forces have interacted with the process of science to promote the dynamic development of the current body of scientific knowledge. (Effective Term: Fall 2006) (CIP-130301)

Rationale: The study of the History & Philosophy of Science is a stated goal of the National Science Education Standards and is a requirement of NCATE.

COLLEGE OF LAW
Course Change:

From:

LAW 703. Contracts 1. 4 Hr. Basic elements of consensual relations enforced by law: formation, performance, breach, excuse, remedies, and the impact of modern legislation upon common law.

To:

LAW 703. Contracts 1. 4 Hr. The study of operation of contracts in society, what it means to have a contract, how contracts are made, and the manner and extent to which contracts and non-contract promises will be enforced. (Effective Term: Fall 2007) (CIP-220101)

Rationale: This course is one of the several staples of legal jurisprudence and introduces the basic principles of legally enforceable contracts, and includes the basic remedies for broken contracts. This is fundamental to our market economy and our democratic way of life. Due to the consolidation of Contracts 1 and part of Contracts 2, the description and course content have been altered to sufficiently cover all necessary information.

Memorandum

To: Faculty Senate Executive Committee

From: Lesley Cottrell, Chair-Elect
Senate Curriculum Committee

Date: November 27, 2006

Re: Administrative Changes

The following alterations (minor changes) have received administrative approval:

ALTERATIONS (Minor Changes):

Subject Code	Course Code	CIP	Alteration Request	Reason for Change	Effective Date
ChE	**201**	140701	**Action:** Pre-requisite change. **Old:** 201. Material and Energy Balances 1. 3 hr. PR: MATH 155 and CHEM 116 and PR or Conc: ENGR 102. Introduction to chemical engineering fundamentals and calculation procedures, industrial stoichiometry, real gases and vapor-liquid equilibrium, heat capacities and enthalpies; unsteady material balances and energy balances. (2 hr. lec., 2 hr. calc. lab). **New:** 201. Material and Energy Balances 1. 3 hr. PR: MATH 155 and CHEM 116 and PR or Conc: ENGR 102 or CHE 102. Introduction to chemical engineering fundamentals and calculation procedures, industrial stoichiometry real gases and vapor-liquid equilibrium, heat capacities and enthalpies; unsteady material balances and energy balances. (2 hr. lec., 2 hr. calc. lab).	**Rationale:** The PR for this course of ENGR 102 has been changed to ENGR 102 or CHE 102 making it consistent with the addition of our new freshman course CHE 102, which students meeting CEMR qualification guidelines and who are interested in chemical engineering can take in place of ENGR 102.	200708

FIDP	**201**	430111	**Action:** Offering course to all students. **Old:** FIDP 201. Introduction to Forensic Identification. 3 hr. A survey course of the competencies required to successfully complete the Forensic Identification Program including overview of the history and components of fingerprint classification systems, newest identification technologies and skills, insight into personal/career characteristics. **New:** FIDP201. Introduction to Forensic Science. 3 hr. A survey course of forensic science including overview of the history and components of fingerprint classification systems, crime scene analysis, and death investigation. This course is open to non-majors.	**Rationale:** This change will allow students to learn about the history and current practices in forensic science. To ensure that the broader university community will be able to find seats for the class, two sections will be offered each time the class is offered. One section will be limited to FIDP majors and will be allocated ~ half the seats. The other section will have no restriction.	200705
FIDP	**335**	430111	**Action:** Change subject code from ART to FIDP. **Old: ART 335.** Forensic Photography. 3 hr. Students focus on the fundamentals of photography, how to handle a camera, and expose film correctly. Include unique forensic environments encountered in forensic work includes fingerprints, crime scenes, and disaster scenes. **New: FIDP 335.** Forensic Photography. 3 hr. Students focus on the fundamentals of photography, how to handle a camera, and expose film correctly. Include unique forensic environments encountered in forensic work includes fingerprints, crime scenes, and disaster scenes.	**Rationale:** The course was previously taught using CAC facilities but now is fully supported through the forensic and investigative sciences program. All course content has not changed. The course will be opened to the university on a space-available basis. Students will still be required to obtain permission from the FIS program.	200708
FIDP	**409**	430111	**Action:** Title and Description Change. **Old: 409.** Trace Evidence/Blood Splatter. 3 hr. Violent crimes frequently produce evidence such as bloodstains and related trace evidence. Scientific analyses of trace evidence and blood patterns at crime scene investigations and their applications in solving crimes. **New:** 409. Bloodstain Pattern Analysis. 3 hr. Violent crimes frequently produce evidence such as bloodstains. Scientific analyses of blood patterns at crime scene investigations and their applications in solving crimes.	**Rationale:** Emphasis has shifted to inclusion of more crime scene software and automated trajectory analysis. Blood stain pattern analysis is the correct terminology for the subject as accepted by professional accreditation boards.	200708

ID	**230**	500408	**Action:** PR drop; open to pre-majors. **Old:** 230. History of Interiors and Furniture I. 3 hr. PR Six hours of ID or consent. Interiors, furnishings, and decorative arts from antiquity through neoclassical periods in France, England, and America. **New:** 230. History of Interiors and Furniture I. 3 hr. The course examines the history of western European design from antiquity through the neoclassical periods as situated within the larger context of the contemporary globe.	**Rationale:** Emphasis on Interior Design for pre-majors. Syllabus altered slightly to reflect expected growth of classroom size but < 20% has been modified. Exam schedule and assignments remain the same.	200708
MAE	**242**	3050	**Action:** add Math 156 with $\geq$ C grade as PR **Old:** 242. Dynamics. 3 hr. PR: MAE 241 and MATH 156. Newtonian dynamics of particles and rigid bodies. Engineering applications of equations of motion, work and energy, conservative forces, impulse and momentum, impulsive forces, acceleration in several coordinate systems, relative motion, instantaneous centers, and plane motion. (3hr. lec). **New:** 242. Dynamics. 3 hr. PR: MATH 156 with grade of C or better and MAE 241. Newtonian dynamics of particles and rigid bodies. Engineering applications of equations of motion, work and energy, conservative forces, impulse and momentum, impulsive forces, acceleration in several coordinate systems, relative motion, instantaneous centers, and plane motion. (3hr. lec).	**Rationale:** Math 156 grade of C or better stipulation is made to improve level of mathematical preparation for this course and thus improve success rate of students in the class.	200708

MAE	**243**	3050	**Action:** add Math 156 with ≥ C grade as PR **Old:** 243. Mechanics of Materials. 3 hr. PR: MAE 241 and MATH 156. Stress, deformation, and failure of solid bodies under the action of forces. Internal force resultants, stress, strain, Mohr's circle, and mechanical properties of materials, generalized Hooke's Law. Axial, bending and buckling loads, and combinations. (3 hr. lec.). **New:** 243. Mechanics of Materials. 3 hr. PR: MATH 156 with grade of C or better and MAE 241. Stress, deformation, and failure of solid bodies under the action of forces. Internal force resultants, stress, strain, Mohr's circle, and mechanical properties of materials, generalized Hooke's Law. Axial, bending and buckling loads, and combinations. (3 hr. lec.).	**Rationale:** Math 156 grade of C or better stipulation is made to improve level of mathematical preparation for this course and thus improve success rate of students in the class.	200708
MAE	**316**	3050	**Action:** add Math 261 with ≥ C grade as PR **Old:** 316. Analysis of Engineering Systems. 3 hr. PR: ENGR 102 and MATH 261 and MAE 242. Analytical, numerical, and computational techniques to analyze and solve engineering problems. Mathematical modeling, solution strategies, and analysis of results. Statistical techniques including probability distribution functions, regression analysis, and curve fitting. **New:** 316. Analysis of Engineering Systems. 3 hr. PR: MATH 261 with grade of C or better, ENGR 102, and MAE 242. Analytical, numerical, and computational techniques to analyze and solve engineering problems. Mathematical modeling, solution strategies, and analysis of results. Statistical techniques including probability distribution functions, regression analysis, and curve fitting.	**Rationale:** Math 261 grade of C or better stipulation is made to improve level of mathematical preparation for this course and thus improve success rate of students in the class.	200708

MAE	**331**	3050	**Action:** add Math 251 with ≥ C grade as PR **Old:** 331. Fluid Mechanics. 3 hr. PR: MAE 241. Fluid statics, laminar and turbulent flow of compressible and incompressible fluids, flow measurements, open channel flow, and kinetics of fluids. (3 hr. lec.). **New:** 331. Fluid Mechanics. 3 hr. PR: MATH 251 with grade of C or better and MAE 241. Fluid statics, laminar and turbulent flow of compressible and incompressible fluids, flow measurements, open channel flow, and kinetics of fluids. (3 hr. lec.)	**Rationale:** Math 251 was added to ensure that students enrolled in this course understand the needed course fundamentals. Math grade of C or better stipulation is made to improve level of mathematical preparation for this course and thus improve success rate of students in the class.	200708
MAE	**343**	3050	**Action:** add Math 251 with ≥ C grade as PR **Old:** 343. Intermediate Mechanics of Materials. 3 hr. PR: MAE 243. Introduction to material and science. Introduction to elasticity. Strength under combined stresses. Energy methods. Column theory. Unsymmetric bending. Fundamentals of fatigue and fracture. **New:** 343. Intermediate Mechanics of Materials. 3 hr. PR: MATH 251 with grade of C or better and MAE 243. Introduction to elasticity. Strength under combined stresses. Energy methods. Column theory. Unsymmetric bending. Fundamentals of fatigue and fracture.	**Rationale:** Math 251 was added to ensure that students enrolled in this course understand the needed course fundamentals. Math grade of C or better stipulation is made to improve level of mathematical preparation for this course and thus improve success rate of students in the class.	200708

MAE	**411**	3050	**Action:** add Math 261 with ≥ C grade as PR, EE 221, 222 in place of EE 306 or EE 307 **Old:** Advanced Mechatronics. 3 hr. MATH 261 and MAE 211 and EE306 and PR or CONC: EE 307. Instrumentation and measurements emphasizing systems that combine electronics and mechanical components with modern controls and microprocessors. First and second order behavior, transducers and intermediate devices, measurement of rapidly changing engineering parameters, microcontrollers, and actuators. (2hr. lec., 3 hr. lab). **New:** 411. Advanced Mechatronics. 3 hr. MATH 261 with grade of C or better, MAE 211, and EE 221, 222. Instrumentation and measurements emphasizing systems that combine electronics and mechanical components with modern controls and microprocessors. First and second order behavior, transducers and intermediate devices, measurement of rapidly changing engineering parameters, microcontrollers, and actuators. (2hr. lec., 3 hr. lab).	**Rationale:** EE 306 and 307 are no longer offered. Our students now take the EE 221 and 222 sequence as part of their regular curriculum. Math grade of C or better stipulation is made to improve level of mathematical preparation for this course and thus improve success rate of students in the class.	200708
MAE	**423**	3050	**Action:** add Math 261 with ≥ C grade as PR **Old:** 423. Heat Transfer. 3 hr. PR: MAE 320. Steady state and transient conduction. Thermal radiation. Boundary layer equations for forced and free convection. (3 hr. lec). **New:** 423. Heat Transfer. 3 hr. PR: MATH 261 with grade of C or better and MAE 320. Steady state and transient conduction. Thermal radiation. Boundary layer equations for forced and free convection. (3 hr. lec).	**Rationale:** Math 261 was added to ensure that students enrolled in this course understand the needed course fundamentals. Math grade of C or better stipulation is made to improve level of mathematical preparation for this course and thus improve success rate of students in the class.	200708

MAE	**454**	3050	**Action:** add Math 261 with ≥ C grade as PR **Old:** 454. Machine Design and Manufacturing. 3 hr. PR: MAE 342 and MAE 343. Mechanical design of mechanical elements such as shaft systems, bearings, gears, screws, and fasteners, clutches and brakes, and flexible drive elements. Design for manufactuability considerations. **New:** 454. Machine Design and Manufacturing. 3 hr. PR: math 261 with grade of C or better, MAE 342 and MAE 343. Mechanical design of mechanical elements such as shaft systems, bearings, gears, screws, and fasteners, clutches and brakes, and flexible drive elements. Design for manufactuability considerations.	**Rationale:** Math 261 was added to ensure that students enrolled in this course understand the needed course fundamentals. Math grade of C or better stipulation is made to improve level of mathematical preparation for this course and thus improve success rate of students in the class.	200708
MAE	**456**	3050	**Action:** add Math 261 with ≥ C grade as PR **Old:** CAD and Finite Element Analysis. 3 hr. PR:(MAE 342 or MAE 345) and MAE 343. Computer-aided design fundamentals, finite element concepts and solution techniques. Exposure to CAD and finite element packages. Design case studies. **New:** 456. CAD and Finite Element Analysis. 3 hr. PR: Math 261 with grade of C or better and (MAE 342 or MAE 345) and MAE 343. Computer-aided design fundamentals, finite element concepts and solution techniques. Exposure to CAD and finite element packages. Design case studies.	**Rationale:** Math 261 was added to ensure that students enrolled in this course understand the needed course fundamentals. Math grade of C or better stipulation is made to improve level of mathematical preparation for this course and thus improve success rate of students in the class.	200708

MAE	**460**	3050	**Action:** PR of MAE 316 dropped; Add Math 261 (≥ C grade) as prerequisite to enrollment. **Old:** 460. Automatic Controls. 3 hr. PR: MAE 316. Time and frequency domain modeling of physical systems. Open-loop and closed-loop transfer functions. Time response, stability, and steady-state errors of control systems. Root-locus techniques. Compensator design. Frequency response. **New:** 460 Automatic Controls. 3 hr. PR: MATH 261 with grade of C or better. Time and frequency of domain modeling of physical systems. Open-loop and closed-loop transfer functions. Time response, stability, and steady-state errors of control systems. Root-locus techniques. Compensator design. Frequency response.	**Rationale:** MAE 316 was dropped as a PR because it was determined that the addition of the Math 261 requirement would fulfill the same purpose. Math grade of C or better stipulation is made to improve level of mathematical preparation for this course and thus improve success rate of students in the class.	200708

Action: Course Drops

FIDP 408 430111

Old: FIDP 408: Forensic Journal Club. 1 Hr. Familiarize students with the primary literature including original research papers, legal documentation, and articles for professional publications by conducting a literature search on a topic and preparing and presenting the analysis to the class.

PATH 600 510811

Old: PATH 600. Fundamentals of Pathology. 2 Hr. Student in Pathology Assistant MS Program. Basic Fundamentals of pathology to include necrosis, neoplasia, carcinogenesis, inflammation, and other conditions.

PATH 602 510811

Old: PATH 602. Pathology Assistant Systemic Pathology. 3 Hr. Introduce specific organ system diseases and pathological process to first-year Pathologist's Assistant students.

PATH 615 510811

PATH 615. Pathology Assistant Microbiology. 1 Hr. PR: Student in MS Pathology Assistant Program. Survey of microbial agents and diseases for Pathologist's Assistants. Emphasis on transmission, safety and basic laboratory techniques including specimen collection and transport.

Memorandum

16 November 2006

To: Senate Executive Committee

Fr: J. Steven Kite, Chair, General Education Curriculum Oversight Committee

Re: **GEC Actions**

The GECO Committee met on 26 October and 9 November and recommends the following items for Faculty Senate approval.

GEC-LSP Course Actions:

New Course Approvals

- **BIOL 122** Human Sexuality: (GEC Objectives 4 & 6, LSP Clusters B & C, FM&G). (*See MDS 122 under Deletions*.)
- **COUN 230** Life Choices (GEC Objectives 4 & 6, W, LSP Cluster B)
- **FIDP 201** Intro Forensics Science (GEC Objective 4, LSP Cluster B).
- **SPED 304** Special Ed in Contemp. Society, (GEC Objectives 4 & 6, LSP Cluster B)

New Course GEC Approvals pending Curriculum Committee course approval.

- **FIDP 408** Prof. Forensics Communications &… ("W")
- **FLIT 371** Holocaust in Lit & Film, (GEC Obj. 5 & 6; W, LSP A, FM&G)
- **SEES 101** Introduction to SEES [Slavic/East Eur. Studies] (GEC Obj. 4 & 8, LSP B, FM&G)

Successful GEC Audit

- **GEOG 210** Urban Geography (GEC OBJ 4 & 7, LSP Cluster B).

Deletion from the GEC and LSP Cluster lists:

- **MDS 122** Human Sexuality: (GEC Objectives 4 & 6, LSP Clusters B & C, FM&G). *(Course replaced by BIOL 122.)*

Deletions from the LSP Cluster lists requested by ECAS:

- **MDS 128** Intro to Technology and Society 1 - LSP Clusters A & C
- **MDS 129** Intro to Technology and Society 2 - LSP Cluster B
- **MDS 230** Intro Celtic Studies – LSP Cluster A
- **MDS 301** Creativity, Discovery, Innovation – LSP Clusters A & B

Overview of West Virginia Higher Education Policy Commission Budget Request
12-06-06

For the 2008 fiscal year (FY08), the Commission requests $59,078,967 for strategic investments in system-wide higher education initiatives aimed at supporting and enhancing the public policy agenda outlined in WV Code §18B-1A-1a. Funding priorities for FY08 are as follows:

1. Need-Based Student Financial Aid - $15,300,000
2. Institution Operating Budgets – $14,773,231
3. Academic Research – $15,000,000
4. Capital Funding – $14,005,736

PRIORITY ONE: NEED-BASED STUDENT FINANCIAL AID

The strategic investment of $15,300,000 into the Grant Program would allow the state to provide financial aid awards equivalent to 100 percent of tuition and fees to all eligible applicants with EFCs of $6,000 or less under current program rules and regulations. However, there is a consensus among the institutions that these rules and regulations should be refined in order to maximize the impact of the program for all students. Potential changes could include the inclusion of more non-traditional students; re-structuring award amounts similar to federal Pell program; and the extension of application deadline and changes to the application process

PRIORITY TWO: INSTITUTION OPERATING BUDGETS

The Commission requests an overall increase of five percent in institution operating budgets. The proposed increase is equivalent to the change in the Higher Education Price Index (HEPI) from FY 2005 to FY 2006.

PRIORITY THREE: ACADEMIC RESEARCH

The Commission requests a $15,000,000 enhancement to build additional infrastructure and expand capacity at West Virginia's universities. Such funds would be utilized to attract and equip (laboratory equipment, supplies, technicians, etc.) fifteen to twenty faculty hires that will be focused on nanosciences and engineering, identification technologies, molecular sciences, energy and the environment with a strong emphasis on interdisciplinary collaboration and economic/community development potential.

Institution	FY 2007 Appropriation	Across-the-Board Allocation (5%)	Proposed FY 2008 Appropriation
Bluefield State College	5,133,813	256,691	5,390,504
Concord University	9,372,786	468,639	9,841,425
Fairmont State University	11,746,694	587,335	12,334,029
Glenville State College	5,475,753	273,788	5,749,541
Marshall University	45,391,341	2,269,567	47,660,908
Shepherd University	10,335,074	516,754	10,851,828
West Liberty State College	8,561,489	428,074	8,989,563
West Virginia State University	11,222,413	561,121	11,783,534
West Virginia University	105,336,051	5,266,803	110,602,854
Potomac State College	4,149,540	207,477	4,357,017
WVU Institute of Technology	7,925,335	396,267	8,321,602
Subtotal	**$224,650,289**	**$11,232,516**	**$235,882,805**
Medical School			
Marshall University School of Medicine	13,078,857	653,943	13,732,800
West Virginia School of Osteopathic Medicine	6,756,463	337,823	7,094,286
West Virginia University School of Health Sciences	48,963,190	2,448,160	51,411,350
Subtotal	**$68,798,510**	**$3,439,926**	**$72,238,436**
Other			
Higher Education Policy Commission	2,015,779	100,789	2,116,568
Subtotal	**$2,015,779**	**$100,789**	**$2,116,568**
Total	**$295,464,578**	**$14,773,231**	**$310,237,809**

PRIORITY FOUR: CAPITAL PROJECTS

One-Time Requests. Recognizing that the Legislature does not regularly make thirty-year funding commitments necessary for most bond issues, the Commission renews its request for one-time funding of $8,005,736 in institution funds during any upcoming special legislative sessions and during the 2007 regular session if funding is not provided beforehand. Consistent with past practice in developing requests for one-time capital funding, institutions shall obtain a 50 percent match commitment before putting the project forward.

Energy Savings Revolving Loan Fund. According to HEPI data, institution utility costs increased on average by 27.1 percent during FY 2006, driven primarily by rising energy costs. The Commission proposes to initiate a revolving loan fund from which institutions can borrow funds to fund energy saving projects and then repay the fund over time from funds saved by the institution as a result of the energy savings. Projects would be selected on a competitive basis and repayment would come from the energy savings themselves; a $6 million one-time appropriation would be sufficient to establish a thriving energy savings revolving loan fund.