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# University Course Review Committee

**Agenda**

**Meeting # 255**

# April 23, 2012 Tobin Rm, Knight Hall

# 10:00 AM

**Present: Bruce Cameron, Trent Allen, Audrey Shalinsky, David Whitman, Rex Gantenbein, Kent Drummond, Lane Buchanan, Jacquelyn Bridgeman, Courtney Carlson, Debra Donahue**

## Part I – Consent Agenda

* ***College of Agriculture and Natural Resources***

**AECL/PLNT**

**4120 ORGANIC FOOD PRODUCTION, 3 hrs.**

***Current Course Description and Prerequisites*:** A complete review of the federal organic production guidelines, methods and applications for organic production facilities, alternative marketing principles, concepts of organic fertilizer use, organic pest control and concepts for using environmentally friendly methods to reduce chemical, petroleum and synthetic inputs for more sustainable crop and livestock agricultural systems. Cross listed with PLNT 4120.

*Prerequisite*: 8 hours of life sciences and/or Chemistry.

***Requested Addition of Dual list*:** PLNT 5120.

***Action Taken:*** Approved.

**ANSC**

**4540 PRINCIPLES OF ANIMAL BREEDING, 3 hrs.**

***Current Course Description and Prerequisites*:** Discusses genetic principles underlying animal improvement; introductory population genetics; heritability; systems of mating; and selection.

*Prerequisites*: MATH 1000 or a statistics course; LIFE 3050.

***Requested Addition of Dual list*:** 5540.

***Action Taken:*** Approved.

* ***College of Arts and Sciences***

**MATH**

**0921 LC: BASICS OF ALGEBRA, 3 hrs.**

***Current Course Description and Prerequisites*:** None.

***Requested Change of Title*:** LC: Algebra I.

***Action Taken:*** Approved.

**MATH**

**0925 LC: ALGEBRA REVIEW, 3 hrs.**

***Current Course Description and Prerequisites*:** None.

***Requested Change of Title*:** LC: Algebra II.

***Action Taken:*** Approved.

* ***College of Business***

**ECON**

**4430 ENERGY ECONOMICS, 3 hrs.**

***Current Course Description and Prerequisites*:** Economics of energy, particular oil and gas. Includes a discussion of the history of the oil industry, as well as aspects of contemporary markets. Apply a variety of concepts from microeconomics, particularly related to industrial economics.

*Prerequisites*: ECON 3020, MATH 2205 or 2355.

***Requested Change of Prerequisites*:** ECON 3020, MATH 2200 or 2350.

***Action Taken:*** Approved.

**MBAM**

**5503 FUNDAMENTALS OF ACCOUNTING IN THE ENERGY INDUSTRY, 3 hrs.**

***Current Course Description and Prerequisites*:** Overview of security analysis applied to energy firms, hedging strategies, and trading activities in energy markets. Trading activities covered in the course include the use of forward and futures contracts, swaps, options, and related derivatives.

*Prerequisites*: Permission of MBA program director, or student’s graduate program coordinator in consultation with MBA program director.

***Requested Change of Course Description*:** Introduction to basic financial accounting and reporting issues related to energy producing activities. Investigate current accounting practices of energy producing companies related to exploration, acquisition, development, and delivery of energy products. Cover financial requirements of the Financial Accounting Standards Board (FASB), the International Accounting Standards Board (IASB), and the Securities and Exchange Commission (SEC).

***Action Taken:*** Approved.

**MGT**

**4425 SUPERVISION, 3 hrs.**

***Current Course Description and Prerequisites*:** Focuses on interactions with direct report employees. Influence, work maturity, integrity, work standards, communication skills, team management, doing performance appraisal, managing customer service, training, and interviewing are among the supervisory topics.

*Prerequisites*: MGT 3210 and advanced business standing.

***Requested Change of Prerequisites*:** MGT 3210, MGT 4410 or MGT 4410 concurrently; advanced business standing.

***Action Taken:*** Approved.

**MGT**

**4465 MANAGERIAL TOOLS, 3 hrs.**

***Current Course Description and Prerequisites*:** Supply commonly used tools for managers, including those for controlling operations, budgeting, financial forecasting and analysis ratios, risk assessment and control, management audits, monitoring, clan control, and employee discipline systems. Planning tools include strategic and operational plans, goals, MBO, succession, disaster, contingency and scenario planning.

*Prerequisites*: MGT 3210, advanced business standing.

***Requested Change of Prerequisites*:** MGT 3210, MGT 4420 or MGT 4420 concurrently; advanced business standing.

***Action Taken:*** Approved.

* ***College of Education***

**EDAD**

**5010 LEADERSHIP CURRICULUM DEVELOPMENT, 3 hrs.**

***Current Course Description and Prerequisites*:** The main learning outcome is curriculum development with topics including educational and cultural foundations, curricular outcomes, K-12 alignment, standards and community values, developing, managing, and evaluating curriculum, multicultural education, equal access (special education, gifted and talented, ESL, poverty, sex ed., character ed., etc. ), academic freedom, and censorship.

*Prerequisite*: graduate standing.

***Requested Change of Course Description and Prerequisites*:**

Focuses on leadership skills that support curriculum and curriculum development in student learning and achievement. Key topics include: K-12 curriculum alignment; incorporating standards and community values; curriculum development, implementation, and evaluation; equity and access for diverse learning needs; and effective communication about curriculum.

*Prerequisite*: Admission to program or consent of instructor.

***Action Taken:*** Approved.

**EDAD**

**5020 LEADERSHIP FOR SCHOOL ORGANIZATION, 3 hrs.**

***Current Course Description and Prerequisites*:** Focus is on school organization with topic areas including school culture, community building, models for strategic planning, school governance/operations, site-based management, ethics and morality, budgeting and resource allocation, scheduling, school buildings and facilities, student rights, religious expression, and equal access.

*Prerequisite*: graduate standing.

***Requested Change of Course Description and Prerequisites*:**

Focuses on organizational leadership. Topics include: history of organizational leadership, leadership styles, change process, strategic planning, federal, state, and local governance as well as politics, power and policy, and school operations, to include budget, facilities, scheduling, recruitment, selection and induction.

*Prerequisite*: Admission to program or consent of instructor.

***Action Taken:*** Approved.

**EDAD**

**5030 LEADERSHIP FOR COMMUNICATION AND PERSONNEL, 3 hrs.**

***Current Course Description and Prerequisites*:** Focus is on communication and personnel development. Topics include recruitment, selection, induction, supervision, and evaluation of staff, models of supervision, staff development and models of professional development, conflict management, politics, power and policy, public relations and communication, and employment law related to teachers and classified staff.

*Prerequisite*: graduate standing.

***Requested Change of Course Description and Prerequisites*:**

Focuses on the leadership role of the principal in building relations with students, staff, family, and community. Topics include school culture and climate, community and family involvement, public relations and communications, student discipline, and crisis management.

*Prerequisite*: Admission to program or consent of instructor.

***Action Taken:*** Approved.

**EDAD**

**5040 LEADERSHIP FOR INSTRUCTION, 3 hrs.**

***Current Course Description and Prerequisites*:** Focus is on teaching and learning with topic areas including mission, vision, and goal development, improvement of instruction, school improvement, research in school improvement, assessment and testing, models of instruction, integrating technology in the classroom, and privacy and confidentiality issues.

*Prerequisite*: graduate standing.

***Requested Change of Course Description and Prerequisites*:**

Focuses on the principal as instructional leader. Topics include: developing a school vision of learning; employing effective instructional strategies, supervision and evaluation of teacher performance; integration of supervision, evaluation, and student achievement with professional development and professional learning communities, and instructional trends and issues within diverse learning communities.

*Prerequisite*: Admission to program or consent of instructor.

***Action Taken:*** Approved.

**EDAD**

**5580 SUPV INTERN ED ADMIN, 1-8 hrs. [MAX 12].**

***Current Course Description and Prerequisites*:** An internship experience may be required as part of the planned program in educational administration for the elementary principalship, the secondary principalship, and the superintendency. A maximum of four hours may be counted in meeting the minimum requirements of a graduate degree, but additional credit may be taken beyond this limit for the recording of appropriate supervised experience.

*Prerequisite*: 8 hours of education administration courses, 15 hours of education, consent of department, and graduate standing.

***Requested Change of Course Description and Prerequisites*:**

Designed to expand student knowledge by providing an intensive clinical experience in educational administration along with other activities that involve practical experiences with peers and with practising K-12 administrators.

*Prerequisite*: Admission into the UW Educational Leadership Principal Certificate, Master's or EdD Doctoral Program.

***Action Taken:*** Approved.

**EDAG**

**4170 AGRICULTURAL MECHANICAL SYSTEMS AND TECHNOLOGY, 3 hrs.**

***Current Course Description and Prerequisites*:** Introduces advanced knowledge and skills in the areas of agricultural mechanics taught in the secondary schools. Safety management and practices are included as well. Includes those practices required of future teachers of agriculture in planning and delivering agricultural mechanics instruction.

*Prerequisites*: EDAS 3170, 3180.

***Requested Change of Title, Course Description and Prerequisites*:**

Principles of Agricultural Mechanics and Technology,

Content will emphasize those skills commonly taught in Wyoming agricultural education in the secondary school system with an emphasis on advanced gas and plasma welding theory, small gas engines, and advanced electrical wiring and practices. Designed for students preparing to teach agricultural science in the Wyoming public school system.

*Prerequisites*: EDAG 4070 or by approval of instructor.

***Action Taken:*** Approved.

**EDAG**

**4180 AGRICULTURAL POWER SYSTEMS, 3hrs.**

***Current Course Description and Prerequisites*:** Prepares preservice teachers for teaching electrical, mechanical, fluid, and alternative power systems. Emphasizes selection, installation, and maintenance of electric motors and controls, internal combustion engines, hydraulic components and systems, and alternative power sources.

*Prerequisites*: junior standing.

***Requested Change of Title and Course Description*:**

Techniques of Agricultural Mechanics and Technology,

Techniques of agricultural mechanics and instruction. Content will emphasize those skills commonly taught in the Wyoming school system agricultural mechanics program with emphasis on woodworking, welding theory, agricultural plumbing, and electrical wiring and practices. Designed for students preparing to teach agricultural science in the Wyoming public school system.

***Action Taken:*** Approved.

**EDEX**

**5000 COLLABORATIVE/PROFESSIONAL INTERDISCIPLINARY RELATIONSHIPS, 3hrs.**

***Current Course Description and Prerequisites*:** Represents an opportunity for students to examine and explore a range of consultant concepts in the field of Special Education.

*Prerequisite*: graduate standing and permission of instructor.

***Requested Change of Prerequisites*:** Admission to program or consent of instructor.

***Action Taken:*** Approved.

**EDEX**

**5071 TEACHING STUDENTS WITH MILD AND MODERATE DISABILITIES, 3 hrs.**

***Current Course Description and Prerequisites*:** Relates the theoretical, research, and practical aspects of high incidence mild-moderate disabilities to the teacher, classroom, parents, paraprofessionals, other school personnel, and community agencies, all in the effort to help resolve student presenting problems.

*Prerequisite*: consent of Instructor.

***Requested Change of Course Description and Prerequisites*:**

Relates the theoretical, research, and practical aspects of mild-moderate disabilities to the student, teacher, classroom, parents, paraprofessionals, and other school personnel and community agencies, all in an effort to help understand and remediate student instructional and behavioral presenting problems.

*Prerequisite*: Admission to program or consent of instructor.

***Action Taken:*** Approved.

**EDEX**

**5080 TEACHING STUDENTS WITH SEVERE AND LOW INCIDENCE DISABILITIES, 3 hrs.**

***Current Course Description and Prerequisites***: Designed to provide teachers with the repertoire of instructional, curricular, and behavior analytic skills needed to effectively serve students with severe and low-incidence disabilities. An emphasis on inclusive education and promoting access to the general curriculum will be stressed.

*Prerequisites*: consent of instructor.

***Requested Change of Prerequisites*:** Admission to program or consent of instructor.

***Action Taken:*** Approved.

**EDEX**

**5100 PRACTICUM I, 3 hrs.**

***Current Course Description and Prerequisites***: Designed to allow the student to practice skills and competencies reflected in the Council for Exceptional Children standards. The activities are designed to follow the Wyoming Teaching Standards for Special Education Certification.

*Prerequisite*: consent of the Instructor.

***Requested Change of Prerequisites*:** Admission to program or consent of instructor.

***Action Taken:*** Approved.

**EDEX**

**5110 POSITIVE BEHAVIOR SUPPORT AND MANAGEMENT, 3 hrs.**

***Current Course Description and Prerequisites***: Relates the theoretical, research, and practical strategies for the teachers, parents, paraprofessionals, by which to develop, implement, and evaluate behavior change.

*Prerequisites*: graduate Standing and consent of instructor.

***Requested Change of Course Description and Prerequisites*:**

Relates the theoretical, research, and practical strategies of behavior change models to students, teachers, parents, and paraprofessionals, in order to understand and remediate student behavior presenting problems, to include the application of systematic Behavior Management plans, BIPs, FBAs, BSPs, and school wide PBIS.

*Prerequisite*: Admission to program or consent of instructor; EDEX 5071.

***Action Taken:*** Approved.

**EDEX**

**5120 SPECIAL ACADEMIC INSTRUCTION IN GENERAL EDUCATION FOR STUDENTS WITH DISABILITIES, 3 hrs.**

***Current Course Description and Prerequisites***: Offers teachers appropriate practices and procedures for accommodating children with disabilities in their general education classroom. The focus is on moving from academic and nonacademic assessments to appropriate teaching and learning in the general education classroom environment.

*Prerequisite*: consent of instructor.

***Requested Change of Prerequisites*:** Admission to program or consent of instructor.

***Action Taken:*** Approved.

**EDEX**

**5150 RESEARCH APPLICATIONS IN THE CLASSROOM, 3 hrs.**

***Current Course Description and Prerequisites***: Methodology for conducting applied research projects in classroom settings will be discussed. The relationship of applied research to best practices in teaching students with disabilities will be examined. In particular, the value of conducting single-subject research to evaluate educational programs and apply scientifically-based research to evaluate educational programs and apply scientifically-based research are discussed. *Prerequisite*: admission to special education program.

***Requested Change of Course Description and Prerequisites*:**

Methodology for conducting applied research projects in classroom settings will be discussed. A variety of "classroom-friendly" experimental designs will be examined. In particular, the value of single-subject research in evaluating educational programs and serving as a rigorous, experimentally sound methodology are discussed.

*Prerequisite*: Admission to program or consent of instructor.

***Action Taken:*** Approved.

**EDEX**

**5200 PRACTICUM II, 3 hrs.**

***Current Course Description and Prerequisites*:** Designed to allow the student to practice skills and competencies reflected in the Council for Exceptional Children standards. The activities are designed to follow the Wyoming Teaching Standards for Special Education Certification.

*Prerequisite*: consent of the instructor.

***Requested Change of Prerequisites*:** Admission to program or consent of instructor; EDEX 5100.

***Action Taken:*** Approved.

**EDEX**

**5250 ASSISTIVE TECHNOLOGY AND TRANSITION, 3hrs.**

***Current Course Description and Prerequisites*:** Addresses assistive technology information for students with disabilities. Also, the class will examine the transition and post-high school options available for students.

*Prerequisites*: none.

***Requested Change of Title, Credit Hours, Course Description and Prerequisites*:** Assistive Technology, 2 hrs.

Addresses assistive technology considerations for students with disabilities. Assessment, planning, selection, use, and evaluation of options will be emphasized.

*Prerequisite*: Admission to program or consent of instructor.

***Action Taken:*** Approved.

**EDEX**

**5355 ASSESSMENT, 3 hrs.**

***Current Course Description and Prerequisites*:** Involves the interpretation of selected formal psycho-educational tests, informal tests, the relationship to eligibility standards, and the application to the practical remediation of the student's presenting problem.

*Prerequisite*: graduate standing.

***Requested Change of Course Description and Prerequisites*:**

Involves the history, ethics, data collection procedures, psychometric understanding, and interpretation of selected formal and informal psycho- educational tests; the relationship to a comprehensive evaluation and IDEA eligibility requirements; and the application of assessment results to the practical remediation of student instructional and behavioral presenting problems.

*Prerequisite*: Admission to program or consent of instructor.

***Action Taken:*** Approved.

**EDEX**

**5720 SPECIAL EDUCATION LAW, 3 hrs.**

***Current Course Description and Prerequisites*:** Provides prospective special education teachers and support personnel with overview of important case and statutory law in special education.

*Prerequisites*: 3 semester hours of graduate course work in special education; 3. 0 graduate GPA, and consent of instructor and department head; and EDEX 3470 or equivalent.

***Requested Change of Prerequisites*:** Admission to program or consent of instructor.

***Action Taken:*** Approved.

* ***College of Law***

**LAW**

**6160 LEGAL WRITING, 2 hrs.**

***Current Course Description and Prerequisites*:** Introduction to legal writing and legal reasoning. In this course students are introduced to the fundamentals of legal reasoning and analysis and the basics of legal writing.

*Prerequisites*: none.

***Requested Change of Title*:** Legal Writing I.

***Action Taken:*** Approved.

**LAW**

**6260 APELLATE ADVOCACY, 2 hrs.**

***Current Course Description and Prerequisites*:** A study of the theory and procedure of appellate advocacy, an examination of abstracts of record, research and drafting of appellate briefs, and the presentation of oral argument.

*Prerequisites*: none.

***Requested Change of Title*:** Legal Writing II.

***Action Taken:*** Approved.

* ***Other***

**ENR**

**4000 ENR APPROACHES, 3 hrs. [WB, CS]**

***Current Course Description and Prerequisites*:** Explores important environmental policy, collaborative and adaptive decision-making, and the integration of diverse disciplines in the study and resolution of complex ENR challenges. This is the first course in the ENR Capstone series (along with ENR 4900) and students should take both capstone courses in the same academic year. Dual listed with ENR 5000.

*Prerequisite*: USP WA course.

***Requested Change of Number, Course Description and Removal of Dual list*:**

3000, Provides an introduction to environmental and natural resources problem solving and decision making. Learn how scholars and practitioners define and structure ENR problems for management and policy decision making. Additionally, students learn approaches, processes and techniques that address problems analytically and in a values-oriented context. Remove dual list with ENR 5000.

***Action Taken:*** Approved, actually discontinuing 4000 and modifying 3000 that already exists, should have been two separate CARFs.

## Part II – Consent Agenda

## Courses for Discontinue

* ***College of Arts and Sciences***

**BOT**

**5756 ECOLOGICAL SYSTEMS MODELING, 4 hrs.**

***Current Course Description and Prerequisites*:**

Design, implementation, analysis, and interpretation of ecological models. Includes model development, sensitivity analyses, parameterization, uncertainty, and validation. Emphasizes empirical (data-driven) and mechanistic models that encompass a hierarchy of scales and processes. Primary ecological focus is terrestrial systems, including models that span leaf to ecosystem processes. *Prerequisites*: one course each in calculus, statistics and ecology.

***Action Taken:*** Approved.

## Part III – Regular Agenda

## Courses for Addition

* ***College of Agriculture and Natural Resources***

**AECL**

**3036 INTRODUCTION TO VITICULTURE, 3 hrs.**

***Proposed Course Description and Prerequisites*:** Introduces the science of viticulture. Topics include grapevine origin and distribution, taxonomy, morphology and physiology, soil and climatic requirements, vineyard establishment, grapevine nutrition, cultural practices, harvesting and post-harvest management. Successful completion will enhance students’ knowledge and understanding on grape production and management.

*Prerequisites*: AECL 2025.

***Justification*:** This course will provide students/growers/homeowners science- based information on grapevine production.

***Action Taken:*** Approved.

**AECL/PLNT**

**4190/5190 HERBS SPICES & MEDICINAL PLANTS, 3 hrs.**

***Proposed Course Description and Prerequisites*:** Includes the history and importance of HSMP, collection of medicinal plants in the wild, botany, chemistry, greenhouse and field production, organic production, harvesting, drying, and postharvest operations, legal aspects of HSMP and their products.

*Prerequisites*: 8 hrs. LIFE and/or CHEM. [**Dual listing w/ PLNT only**]

***Justification*:** The course will provide novel content for Agroecology undergraduate students and Agronomy graduate students. It will also contribute to the "3+1" program in horticulture that is under development with Sheridan College and which will soon be extended to other Wyoming community colleges. Student demand for the course is expected to be high. A similar course, PLNT 4120, Organic Food Production, attracted 30 registered students and 10 wait-listed students when it was offered online for the first time in the Spring semester of 2012. The course will also tend to promote small scale and alternative horticulture by providing an introduction to the technical details of specialty crop production appropriate to Wyoming.

***Action Taken:*** Approved.

**AGRI**

**1520 FIELD PRACTICES: EXTENSION, 1-2 hrs. (MAX 2).**

***Proposed Course Description and Prerequisites*:** Project based work that includes practice applications of Extension programming. Directed by Extension faculty around matching topics of youth development, rangeland resources, food safety and nutrition, community development, or profitable and sustainable agriculture. Local issues are addressed in the context of applied research for public good.

*Prerequisites*: none.

***Justification*:** This proposed course will give the College of Agriculture and Natural Resources a lower level (1000- 2000) general experience in Extension programming. Currently there is no lower level course for sophmore, freshman, or high school guests that provide an opportunity for supervised learning experiences that occur off-campus but across the entire state. The college does offer an upper level courses- AGRI 4520 and AGRI 5520. Adding this course will allow us to provide initial exposure to the college and its departments. This course will especially enable high school aged students the opportunity for targeted learning experiences that may be their first exposure to UW and especially to the College of Agriculutre and Natural Resources.

***Action Taken:*** Approved.

**ANSC**

**4132 EQUINE REPRODUCTION, 2 hrs.**

***Proposed Course Description and Prerequisites*:** Introduces methods of manipulating reproduction within equine management systems. Includes artificial insemination, diagnosis of pregnancy, induction and control of estrus and ovulation, parturition, embryo transfer, and control and prevention of equine reproductive diseases.

*Prerequisite*: ANSC 4120 and 3150. (Normally offered spring semester)

***Justification*:** Animal Science hired a new equine specialist, Dr. Amy McLean, with the goal of developing a new ANVS Equine Science Option. This proposed course, ANSC 4132 - Equine Reproduction is a required course of the proposed ANVS Equine Science Option. Dr. Doug Zalesky, Ph.D. in reproductive biology, is the new Laramie R & E Center Director and will be teaching this course. There is intense interest in equine science by our undergraduates. The new ANVS Equine Science Option curriculum is designed to meet our student's needs and must focus more specifically on management and care of equine. This course will provide for a more in depth understanding about equine reproduction including nine hands on labs focused on various facets of equine reproduction. This course will benefit many students who own equine, have a desire to pursue a career with equine, as well as students applying for graduate and veterinarian programs.

***Action Taken:*** Approved.

**ANSC**

**4250 ADVANCED EQUINE PRODUCTION & MANAGEMENT, 3 hrs.**

***Proposed Course Description and Prerequisites*:** A capstone course for students wanting to pursue a career in the equine industry with main focus on equine management. Business applications, health, facilities, and management will be explored in depth. Integrates equine breeding, nutrition, and reproductive physiology in equine production management schemes.

*Prerequisites*: ANSC 1030 and 3150.

***Justification*:** Animal Science hired a new equine specialist, Dr. Amy McLean, with the goal of developing a new ANVS Equine Science Option. This proposed course, ANSC 4250 - Advanced Equine Production & Management is a required course of the proposed ANVS Equine Science Option. Dr. Amy McLean will be teaching this course. There is intense interest in equine science by our undergraduates. The new ANVS Equine Science Option curriculum is designed to meet our student's needs and must focus more specifically on management and care of equine. This course will provide for a more in depth understanding about equine production and management. This course will benefit many students who own equine, have a desire to pursue a career with equine, as well as students applying for graduate and veterinarian programs.

***Action Taken:*** Approved.

* ***College of Arts and Sciences***

**ASTR**

**5490 PLANETS AND THEIR STARS, 4 hrs.**

***Proposed Course Description and Prerequisites*:** Reviews recent and current research in planets and exoplanets. Topics may include planet formation, known properties of exoplanets, comparisons to Solar System planets, properties of planet-hosting stars, and evolution of planetary systems.

*Prerequisties*: graduate standing or permission of the instructor.

***Justification*:** Update the graduate astronomy curriculum with the addition of an elective course on planets and exoplanets, a new and high-profile topic in astronomy not covered elsewhere in the curriculum.

***Action Taken:*** Approved.

**GEOL**

**4760/5760 RATES AND TIMESCALES OF SURFACE PROCESSES, 3 hrs.**

***Proposed Course Description and Prerequisites*:** Explores methods for quantifying rates and timescales of weathering, erosion, soil formation, nutrient cycling and other surface processes. Focus includes cosmogenic nuclides, tracer thermochronometry, U-series disequilibrium, fallout radionuclides, and optically stimulated luminescence. Course features a mix of instructor-driven lectures on fundamentals and student-driven discussion of cutting-edge research from recent literature.

*Prerequisties*: GEOL 2150 or 3010 or 4880 and MATH 2205 and CHEM 1020 and PHYS 1100.

***Justification*:** This course represents an augmentation to the existing coursework in surface processes, an area in which the department has been expanding, with two new faculty hires in the last 4 years. More generally, in the broader community (outside UW), the area of surface processes research has been undergoing a quantitative revolution in recent years, from a descriptive science in the 70's and 80's to one that deals much more rigorously with mechanistic hypotheses. Here Riebe proposes a formal course on the methods that have enabled the ongoing quantitative revolution in surface processes. In practice, this course will give our undergraduates a deeper, quantitative appreciation for earth surface processes while providing graduate students with the fundamentals of methods that are now widely used to make advances in process-based studies of Earth's surface. It's perhaps worth adding that this course covers material that Riebe's grad students need to learn to make adequate progress on the research typically done in his lab group. Hence it would serve Riebe's research while simultaneously enriching the educational experience for undergraduates with a new, quantitatively rigorous perspective on Earth's changing surface. A final point: this course has already been offered once, in Spring 2011 as a topics course (4200/5200 in geology) as a trial. It was largely successful, as evinced by solid reviews from the 8 students (including 3 undergraduates) who took the course. It is anticipated that, once this course is given a formal listing in the bulletin, it will be well subscribed, by perhaps 10-15 students per offering (every other year in the spring). This course is listed in Riebe's job description as one of his regular courses; hence no other courses will be taught less as a result of adding this course to the University curriculum.

***Action Taken:*** Approved.

* ***College of Business***

**FIN**

**4250 ADVANCED CORPORATE FINANCE, 3 hrs.**

***Proposed Course Description and Prerequisites*:** Designed to give a better appreciation of the techniques and theories of corporate finance and investments that may have been introduced in introductory finance courses.

*Prerequisites*: FIN 3250, 3310.

***Justification*:** The Economics and Finance Department is requesting a new course Advanced Corporate Finance. Our reasoning is twofold. First, the Department currently offers only one introductory course in this important area of modern finance (Fin 3250). The introductory course provides a broad overview of the key topics in corporate finance for all COB students. Finance majors need more depth and exposure, however, to ideas within Corporate Finance; this second course will allow our instructors to explore the key areas in more detail. Second, Advanced Corporate Finance will serve as the capstone course for Finance majors. This will provide an excellent opportunity for our finance majors to pull together all the critical financial ideas they have learned over the last 3-4 years. The course will also be used by the Department to assess the performance and education of our finance majors.

***Action Taken:*** Approved.

* ***College of Education***

**EDEX**

**5260 TRANSITION PLANNING, 2 hrs.**

***Proposed Course Description and Prerequisites*:** Examines the transition and post-high school options available for students with disabilities and in accordance with the requirements of the Individuals with Disabilities Education Act. Emphasis will be placed on assessment, planning, and evaluation of the transition components.

*Prerequisites*: Admission to program or consent of instructor.

***Justification*:** One 3-credit course was split into two 2-credit courses to provide more thorough coverage of course content.

***Action Taken:*** Approved.

**EDSE**

**4279 SUBJECT MATTER SPECIFIC METHODS II: BIOLOGICAL SCIENCE METHODS FOR AGRICULTURAL EDUCATION MAJORS, 3 hrs.**

***Proposed Course Description and Prerequisites*:** Provide meaningful learning in preparation for a professional career in a secondary school setting, teaching life science courses in addition to agriculture classes. Engaged as active participants in discussions and hands-on science activities. Designed to offer experiences to enhance pedagogical content knowledge as well as skills to successfully make science education accessible for all students.

*Prerequisites*: Grade of C or better in EDST 3000, 2.75 minimum GPA in major content courses, grade C or better in specific content courses required in the Secondary Biology Endorsement.

***Justification*:** Many agricultural education teachers in Wyoming are also asked to teach biology courses. This methods course will ensure that agricultural education teachers are successfully prepared to do so.

***Action Taken:*** Approved.

* ***College of Health Sciences***

**HLSC**

**0500 COLLEGE OF HEALTH SCIENCES ASPIRE! HONORS PROGRAM, 0 hrs.**

***Proposed Course Description and Prerequisites*:** Signifies completion of the College of Health Sciences Aspire! program. Aspire! encourages, promotes, and nurtures scholarship, leadership, and professionalism in our future health care professionals through mentorship and professional development. Aspire! emphasizes seven areas of excellence: service, learning, research, leadership, mentoring, interprofessionalism, and cultural competency.

*Prerequisites*: Satisfactory participation in Aspire! program.

***Justification*:** The College of Health Sciences academic plan calls for the development of a "scholars" program whereby we could nurture and better prepare students with extra potential for leadership, academic, and practitioner roles. Aspire! is the result. Aspire! encourages, promotes, and nurtures scholarship, leadership, and professionalism in our future health care professionals through mentorship and professional development. To achieve this goal, Aspire! provides selected students with various opportunities in seven areas of excellence: service, learning, research, leadership, mentoring, interprofessionalism, and cultural competency. Each school/division within the College designed its own Aspire admission requirements and structure. While there are many opportunities and obligations within Aspire! there is no formal coursework to give it "official" status where graduate programs and prospective employers could validate an Aspire entry on a vita, resume, or application. This zero credit, ungraded "course" will give our program official status and signify that the student has participated in and completed the program.

***Action Taken:*** Tabled for Clarification on requirements and concerns of setting a precedent.

**KIN**

**5020 MODALITIES AND ADMINISTRATION IN ATHLETIC TRAINING, 3 hrs.**

***Proposed Course Description and Prerequisites*:** Emphasis on professional development and ability to research and compile information. Opportunity to develop administrative skills related to the day-to-day operations of an athletic training room including budgeting, ordering, inventory, and facility maintenance. Develop an understanding of hiring practices within a healthcare facility.

*Prerequisites*: Graduate level standing, NATA-BOC certification, and a Graduate Assistant Athletic Trainer in the Athletic Department.

***Justification*:** Each year the Athletic department employs 6-8 graduate students in graduate assistant (GA) positions in the field of athletic training. These GA positions are funded through the Athletic Department. The students who are successful in receiving a GA position in athletic training have graduated with their bachelor’s degree in athletic training (i.e., completed an accredited undergraduate athletic training program) and are nationally certified athletic trainers. Most of the students who are accepted to a GA position in athletic training at University of Wyoming seek to complete their master’s degree in kinesiology and health.

To strengthen the graduate curriculum for these students, we are proposing four 5000 level courses designed specifically to enhance the educational experience of the graduate students in the area of athletic training. Joi Thomas, one of the current athletic trainers in the Athletic Department, is an adjunct faculty member in Kinesiology and Health. She has her M.S. degree in Kinesiology and Health and is currently a doctoral candidate in the Biomedical Sciences Ph.D. Program. She will serve as the coordinator for all four of proposed courses. Instruction will be provided by the athletic trainers in the Athletic Department as well as physicians from the Premier Bone & Joint Centers (formerly known as Gem City Bone & Joint) and Laramie Physicians Clinic (names and credentials provided in course syllabi). Each course will be offered once every-other-year (i.e., one course offered each fall and spring semester).

The four proposed courses are as follows:

1. KIN 5020, Modalities and Administration in Athletic Training (3 credits)

2. KIN 5021, Pharmacology and Rehabilitation in Athletic Training (3 credits)

3. KIN 5022, Surgical Procedures and Post-operative Care (3 credits)

4. KIN 5023, Advanced Rehabilitation in Athletic Training (3 credits)

***Action Taken:*** Approved.

**KIN**

**5021 PHARMACOLOGY AND REHABILITATION IN ATHLETIC TRAINING, 3 hrs.**

***Proposed Course Description and Prerequisites*:** Emphasis is on professional development and ability to research and disseminate information. Students will recognize and understand the pharmacokinetics of commonly prescribed medications in the athletic setting. Research injuries and develop rehabilitation programs to be presented to the athletic training staff and various medical providers within the community.

*Prerequisites*: Graduate level standing, NATA-BOC certification, and a Graduate Assistant Athletic Trainer in the Athletic Department.

***Justification*:** Each year the Athletic department employs 6-8 graduate students in graduate assistant (GA) positions in the field of athletic training. These GA positions are funded through the Athletic Department. The students who are successful in receiving a GA position in athletic training have graduated with their bachelor’s degree in athletic training (i.e., completed an accredited undergraduate athletic training program) and are nationally certified athletic trainers. Most of the students who are accepted to a GA position in athletic training at University of Wyoming seek to complete their master’s degree in kinesiology and health.

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The four proposed courses are as follows:

1. KIN 5020, Modalities and Administration in Athletic Training (3 credits)

2. KIN 5021, Pharmacology and Rehabilitation in Athletic Training (3 credits)

3. KIN 5022, Surgical Procedures and Post-operative Care (3 credits)

4. KIN 5023, Advanced Rehabilitation in Athletic Training (3 credits)

***Action Taken:*** Approved.

**KIN**

**5022 SURGICAL PROCEDURES AND POST-OPERATIVE CARE, 3 hrs.**

***Proposed Course Description and Prerequisites*:** Watch orthopedic surgeries and develop a sound understanding of common surgical techniques and procedures. Emphasis will be placed on understanding the anatomical structures, appropriate post-operative care, and rehabilitation techniques.

*Prerequisites*: Graduate level standing, NATA-BOC certification, and a Graduate Assistant Athletic Trainer in the Athletic Department.

***Justification*:** Each year the Athletic department employs 6-8 graduate students in graduate assistant (GA) positions in the field of athletic training. These GA positions are funded through the Athletic Department. The students who are successful in receiving a GA position in athletic training have graduated with their bachelor’s degree in athletic training (i.e., completed an accredited undergraduate athletic training program) and are nationally certified athletic trainers. Most of the students who are accepted to a GA position in athletic training at University of Wyoming seek to complete their master’s degree in kinesiology and health.

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The four proposed courses are as follows:

1. KIN 5020, Modalities and Administration in Athletic Training (3 credits)

2. KIN 5021, Pharmacology and Rehabilitation in Athletic Training (3 credits)

3. KIN 5022, Surgical Procedures and Post-operative Care (3 credits)

4. KIN 5023, Advanced Rehabilitation in Athletic Training (3 credits)

***Action Taken:*** Approved.

**KIN**

**5023 ADVANCED REHABILITATION IN ATHLETIC TRAINING, 3 hrs.**

***Proposed Course Description and Prerequisites*:** Provided opportunities to continue to increase their clinical evaluation skills and develop advanced rehabilitation protocols. Emphasis will be placed on the importance of using evidence based medicine and the ability to critically evaluate peer-reviewed research.

*Prerequisites*: Graduate level standing, NATA-BOC certification, and a Graduate Assistant Athletic Trainer in the Athletic Department.

***Justification*:** Each year the Athletic department employs 6-8 graduate students in graduate assistant (GA) positions in the field of athletic training. These GA positions are funded through the Athletic Department. The students who are successful in receiving a GA position in athletic training have graduated with their bachelor’s degree in athletic training (i.e., completed an accredited undergraduate athletic training program) and are nationally certified athletic trainers. Most of the students who are accepted to a GA position in athletic training at University of Wyoming seek to complete their master’s degree in kinesiology and health.

To strengthen the graduate curriculum for these students, we are proposing four 5000 level courses designed specifically to enhance the educational experience of the graduate students in the area of athletic training. Joi Thomas, one of the current athletic trainers in the Athletic Department, is an adjunct faculty member in Kinesiology and Health. She has her M.S. degree in Kinesiology and Health and is currently a doctoral candidate in the Biomedical Sciences Ph.D. Program. She will serve as the coordinator for all four of proposed courses. Instruction will be provided by the athletic trainers in the Athletic Department as well as physicians from the Premier Bone & Joint Centers (formerly known as Gem City Bone & Joint) and Laramie Physicians Clinic (names and credentials provided in course syllabi). Each course will be offered once every-other-year (i.e., one course offered each fall and spring semester).

The four proposed courses are as follows:

1. KIN 5020, Modalities and Administration in Athletic Training (3 credits)

2. KIN 5021, Pharmacology and Rehabilitation in Athletic Training (3 credits)

3. KIN 5022, Surgical Procedures and Post-operative Care (3 credits)

4. KIN 5023, Advanced Rehabilitation in Athletic Training (3 credits)

***Action Taken:*** Approved.

* ***Other***

**ENR**

**4750/5750 ENR LAW & POLICY, 3 hrs.**

***Proposed Course Description and Prerequisites*:** Explores the policy underpinnings of ENR issues and legal responses to these problems. Gain a basic understanding of (1) the causes of environmental problems, including energy, water, wildlife, and other western land use issues; (2) the range of policy and instrument choices; and (3) the approaches actually taken in current laws.

*Prerequisites*: ENR 2000 and upper division standing or permission from the instructor.

***Justification*:** We propose to create a permanent course that will meet the needs undergraduate and graduate students within the Haub School of Environment and Natural Resources (ENR), as well as other interested students from across campus. During the last few years, Applied Environmental Law has been offered as a well-subscribed ENR special topics course; the course has been particularly popular among students from Energy Resource Science and Engineering Systems Science. The instructor, Deb Donahue, is a member of the College of Law faculty and has considerable expertise within the field.

The course is designed to provide a basic understanding of the underlying causes of environmental problems, the various approaches and instruments available for addressing these problems, and the actual approaches taken in major federal environmental laws. Currently, no course provides depth in this area to non- lawyers, and this content is of interest to many ENR students.

***Action Taken:*** Approved.

**Part IV**

**Tabled Courses**

**MATH/COSC**

**3340 SCIENTIFIC COMPUTING AND PROGRAMMING, 3 hrs.**

***Current Course Description and Prerequisites*:** Mathematical bases for scientific problems of current interest in biology, physics and engineering, then focuses on their respective translation into efficient computational algorithms. Post- processing of the results (visualization, sound generation) is also discussed. Cross listed with COSC 3340.

*Prerequisites*: grade C or better in COSC 1010 and MATH 2210.

***Requested Change of Title, Course Description and Prerequisites*:**

Introduction to Scientific Computing, Introduces basic numerical methods to solve scientific and engineering problems. MATLAB will be used as the primary environment for numerical computations. Topics include: MATLAB's syntax, code structure and algorithms, basic numerical methods for linear systems, eigenvalue problems, interpolation and data fitting, nonlinear systems, numerical differentiation and integration.

*Prerequisites*: MATH 2310.

***Action Taken:*** Removed from Tabled and approved with the following course description:

Introduces basic numerical methods to solve scientific and engineering problems. Topics include: code structure and algorithms, basic numerical methods for linear systems, eigenvalue problems, interpolation and data fitting, nonlinear systems, numerical differentiation and integration.

**MATH/COSC**

**4340 NUMERICAL ANALYSIS, 3 hrs.**

***Current Course Description and Prerequisites*:** Considers computer methods and their accuracy for applied mathematics. Topics include machine arithmetic, analysis of rounding error, solution methods for linear systems and nonlinear equations, interpolations, numerical differentiation and integration, and numerical solution of differential equations. Will include some programming. Cross listed with COSC 4340.

*Prerequisites*: grade of C or better in COSC 1010, MATH 2310, and either MATH 2250 or 3310.

***Requested Change of Title, Course Description and Prerequisites*:**

Numerical Methods for Ordinary and Partial Differential Equations, Develops the skills needed for computational problem solving and numerical analysis. Topics addressed include: one-step, linear multistep methods for solving initial value problems; truncation errors, stability analysis, convergence of numerical methods; finite difference approximation for elliptic equations and initial boundary value problems; iterative methods for sparse linear systems.

*Prerequisites*: MATH 3340.

***Action Taken:*** Removed from Tabled and approved.