

BALL STATE UNIVERSITY

ACADEMIC POSTING

2013-2014

VOLUME XLV – 5

January 7, 2014

This posting may contain all or part of the following: new, revised, and dropped programs, courses and prefixes. The posting period begins January 8, 2014. If no demurrer is received within ten school days, the changes will be certified for implementation. *The effective date for implementing undergraduate materials posted after May 27, 2013 is Fall Semester 2014. Graduate materials posted after April 16, 2012 have an implementation date of Fall Semester 2014.*

COLLEGE OF APPLIED SCIENCES AND TECHNOLOGY

Department of Family and Consumer Sciences

FAMILY AND CONSUMER SCIENCES: FASHION APPAREL (FCFA)

New:

625 Fashion Theories (3) An in-depth study of fashion theories, including theories related to fashion design and construction, social psychological aspects of fashion, consumer behavior, social change, and fashion history. Provides an opportunity to become skillful in identifying and evaluating theories used in fashion research.

Revised:

475 International Apparel Markets (3) Provides an overview of the global textile and apparel industries. Considers the U.S. textile complex and market within an international context.

Prerequisite: FCFA 230 and 270; and MKG 300 or MGT 342.

488 Fashion Buying, Merchandising and E-Commerce (3) Gives potential fashion retailers the knowledge base to make decisions on buying and merchandising in various retail environments (e.g. store, catalog, e-commerce) to satisfy the customer and to maintain an adequate profit level. Demonstrates mathematical and computer skills in buying and merchandising.

Prerequisite: FCFA 280 and 415; and MGT 300; and MKG 300 or MGT 342.

501 Advanced Construction for Apparel Design (3) Students will recognize characteristics typifying high quality

tailored garments and produce garments using advanced construction techniques. Application of appropriate techniques to construct a tailored garment. Students will apply advanced techniques to original design work. Provides experience in working in design and production teams.

505 Advanced Computerized Apparel Product

Development (3) Provides advanced knowledge of the use of computer skills in product development. Integration of design development skills in apparel design and illustration, apparel product prototype development, and presentation using industry software. Another topic covered is grading. Incorporates design and critical problem solving skills, design process models, and design theory including utilization of toolsets.

FAMILY AND CONSUMER SCIENCES: FAMILY AND CHILD (FCFC)

Revised:

100 Introduction to Family and Child (1) An overview and analysis of the family and child field, including discussion of academic requirements, career opportunities, and ethical standards in each of the three tracks: Child Development, Child Life, and Family Studies.

492 Professional Practices in Child Life (3) Students will learn clinical and professional practices required to work in the child life field, including the history of the child life profession, ethics in child life, interventions, and healing environments in family-centered care.

FAMILY AND CONSUMER SCIENCES: FASHION MERCHANDISING (FCFM)

Revised:

369 Internship in Fashion Merchandising (3-6) Provides the opportunity for the student to work in an established internship

setting to gain professional experience in one's specific area of study.

Prerequisite: FCFA 280 or 345 and MKG 300 or MGT 342 and permission of the department chairperson.

A total of 12 hours of credit may be earned, but no more than 6 in any one semester or term.

FAMILY AND CONSUMER SCIENCES: INTERIOR DESIGN (FCID)

Dropped:

100 Introduction to the Interior Design (1)

211 Graphic Communication 2 (3)

321 Graphic Communication 4 (3)

New:

400 NCIDQ Preparation (1) Prepares students for the National Council for the Interior Design Qualification exam by simulating the actual testing experience. Covers all the exercises that will be encountered on the actual examination.

Prerequisite: FCID 424 or permission of the department chairperson.

Open only to interior design majors.

Revised:

120 (211) Graphic Communication 2 (3) Visual communication techniques for interior designers. Emphasis on computer applications and basic training for Computer Aided Drafting (CAD).

Prerequisite: FCID 111 or permission of the department chairperson.

228 (321) Graphic Communication 4 (3) An advanced 3-D modeling course using current modeling and rendering software to produce high quality perspectives and animations.

Prerequisite: FCID 120 or permission of the department chairperson.

FAMILY AND CONSUMER SCIENCES (FCS)

New:

690 Sustainable Practices for Designers and Merchandisers (3) Provides the graduate student the opportunity to learn sustainable theories and practices specific to apparel, merchandising, and interior design. Topics include ecological principles, consumer perspectives, process and practices, policy and performance assessments of various design methods and frameworks.

Revised:

697 Research Methods in Family and Consumer Sciences

(3) Introduces family and consumer science students to the research process as informed consumers and future investigators. Topics include the research process; quantitative, qualitative, mixed methods, and action research designs; and evaluation of research statistics. Includes scientific writing, strategies for conducting literature searches, research ethics, and elements of a research proposal.

Prerequisite: EDPS 641 or 642 or BIO 548 or HSC 687 or permission of the department chairperson.

Open only to departmental majors.

School of Nursing

NURSING (NUR)

Revised:

609 Health Assessment for Clinical Practice (3) Enhance knowledge and skills to integrate science and technology into holistic health assessments. Focuses on application of an evidence-based nursing process for patient care across the life-span in a variety of clinical settings.

Prerequisite: NUR 603 and 604 and 605 and 607.

Open only to graduate nursing students.

614 Issues in the Aging Adult Population (3) Issues of the aging adult population are applied. Research findings are analyzed related to quality care. Impact of fiscal management health care policies and technology are explored.

Prerequisite: NUR 610.

Open only to graduate nursing students.

School of Physical Education, Sport, and Exercise Science

Revised:

Department change of prefixes:

GERO, WELN, and WWIN moved **from:**

Fisher Institute for Wellness and Gerontology **to:**

School of Physical Education, Sport, and Exercise Science.

AQUATICS (AQUA)

Dropped:

213 Introduction to Sailing (1)

217 Canoe and Kayak (1)

255 Practicum in Aquatics (2)

317 Teaching Diving, Water Polo, and Synchro Swim (3)

Revised:

190 Introduction to Aquatics (3) An introduction to such

topics as career opportunities, industry trends, and industry practice. Aquatics concepts, theory, and publications will be discussed. Aquatic related terminology, research, and fundamentals to aquatic oversight are studied.

212 (213) Aquatic Recreation Activities (3) Provides entry-level knowledge and skill practice in canoe, kayak, sailing, water polo, and synchronized swimming. Students learn the basics in each of these areas including nomenclature, rules and regulations as appropriate for the content area. Students with entry-level swimming skills are welcome. Lab fee required.

216 Lifeguard Training (3) Teaches the skills and knowledge necessary to become a certified lifeguard. Includes CPR, FA, AED, 02, and PDT Training. Advanced topics include techniques for open water and surf rescue. Optional certification fee.

Prerequisite: successful completion of intermediate swimming skills test.

221 Advanced SCUBA Diver (2) Series of open water dives and lectures on advanced diving and lifesaving subjects. Optional certification fee.

Prerequisite: AQUA 220 or basic level certification with permission of the instructor.

260 Emergency Medical Responder (3) Provides knowledge and experiences in Emergency Medical Responder skills. Instruction includes training in assessment, CPR, First Aid, Automated External Defibrillation, Oxygen administration, and other advanced care. This is not a state-sanctioned Emergency Medical Responder course.

314 Teaching and Coaching Swimming and Diving (3) Focuses on the application of skills, tactics, and strategies of competitive swimming and diving. Includes entry level to advanced knowledge concepts and skills. Competitive swimming and diving experience is not needed. Skill sessions take into account the student's individual willingness and abilities.

315 Water Safety Instructor (WSI) (3) Swimming and rescue skills necessary to complete certification for a Water Safety Instructor program. Emphasizes a broad range of other aquatic experiences and teaching methodologies. Optional certification fee.

Prerequisite: successful completion of swimming test.

316 Aquatic Fitness Instructor (3) Introduction to the objectives, format, and water exercise classes, emphasizing participation and application of fitness and related concepts to selected water aerobic activities. Optional certification fee.

Prerequisite: successful completion of swimming test the first week of class.

404 Lifeguard Instructor (LGI) (3) Trains students to be Lifeguard Instructors. Training includes LG, CPR, FA, AED, 02, and PDT skills. Advanced topics include open water and surf techniques. Certification available upon successful completion. Optional certification fee.

ATHLETIC TRAINING (AT)

Dropped:

392 Practicum 1 in Athletic Training (1-3)

New:

361 Clinical Education in Athletic Training 4 (2) Guided experiences in athletic training, which includes the application of knowledge and skills in the following domains: prevention, clinical evaluation and diagnosis, immediate care, treatment, rehabilitation, and reconditioning, organization and administration, and professional responsibilities.

Prerequisite: AT 260 and 261 and 360 and 370 and 371.

Open only to athletic training majors admitted into the Athletic Training Program.

Revised:

240 Prevention and Care of Musculoskeletal Injuries (3) Introduction to the prevention, recognition, evaluation, treatment, and rehabilitation of common musculoskeletal injuries and conditions. Laboratory experiences emphasize the following: basic injury evaluation and management, preventative stretching techniques, bracing methods, spinal stabilization, splinting, and equipment fitting techniques. A requirement for application to the Athletic Training Program. Lab fee required.

Open only to athletic training majors admitted into the Athletic Training Program.

250 Application of Taping, Wrapping, and Protective Devices in Athletic Training (1) A laboratory course designed to facilitate learning of the knowledge and skills required to effectively tape, wrap, or apply any protective devices to a patient in an athletic training setting.

Prerequisite: AT 196 and 240.

Open only to athletic training majors admitted into the Athletic Training Program.

260 Clinical Education in Athletic Training 1 (2) Guided experiences in athletic training, which includes the application of knowledge and skills in the following domains: prevention; clinical evaluation and diagnosis; immediate care, treatment, rehabilitation, and reconditioning; organization and administration; and professional responsibilities.

Prerequisite: AQUA 260 and AT 196 and 240 and ANAT 201.

Open only to athletic training majors admitted into the Athletic Training Program.

261 Clinical Education in Athletic Training 2 (2) Guided experiences in athletic training, which includes the application of knowledge and skills in the following domains: prevention, clinical evaluation and diagnosis, immediate care, treatment, rehabilitation, and reconditioning, organization and administration, and professional responsibilities.

Prerequisite: AT 260.

Open only to athletic training majors admitted into the

Athletic Training Program.

360 Clinical Education in Athletic Training 3 (2) Guided experiences in athletic training, which includes the application of knowledge and skills in the following domains: prevention, clinical evaluation and diagnosis, immediate care, treatment, rehabilitation, and reconditioning, organization and administration, and professional responsibilities.

Prerequisite: AT 260 and 261 and 370 and 371.

Open only to athletic training majors admitted into the Athletic Training Program.

370 Lower Extremity Orthopedic Evaluation in Athletic Training (3) Procedures and techniques for the recognition and evaluation of orthopedic injuries and conditions that occur to the lower extremities will be discussed. Laboratory experiences will emphasize the proper methods and techniques in evaluating lower extremity pathologies.

Prerequisite: ANAT 201, AT 240.

Open only to athletic training majors admitted into the Athletic Training Program.

371 Upper Extremity Orthopedic Evaluation in Athletic Training (3) Procedures and techniques for the recognition and evaluation of orthopedic injuries and conditions that occur to the upper extremities will be discussed. Laboratory experiences will emphasize the proper methods and techniques in evaluating upper extremity pathologies.

Prerequisite: ANAT 201, AT 240.

Open only to athletic training majors admitted into the Athletic Training Program.

373 Therapeutic Exercise and Techniques in Athletic Training (3) Examination of the comprehensive rehabilitation of musculoskeletal injuries and conditions using therapeutic exercise and manual therapy techniques. Laboratory experiences emphasize the application of rehabilitation principles for treatment of common musculoskeletal injuries/conditions. Lab fee required.

Prerequisite: AT 370, 371.

Open only to athletic training majors admitted into the Athletic Training Program.

374 Organization and Administration of Athletic Training (3) Understanding of risk management, healthcare delivery mechanisms, insurance, reimbursement, documentation, patient privacy, and facility management as it relates to athletic trainers functioning within the context of a complex healthcare system.

Prerequisite: AT 370 and 371 and 372.

Open only to athletic training majors admitted into the Athletic Training Program.

460 Clinical Education in Athletic Training 5 (2) Guided experiences in athletic training, which includes the application of knowledge and skills in the following domains: prevention, clinical evaluation and diagnosis, immediate care, treatment, rehabilitation, and reconditioning, organization and administration, and professional responsibilities.

Prerequisite: AT 260 and 261 and 360 and 361 and 370 and 371 and 372 and 373.

Open only to athletic training majors admitted into the

Athletic Training Program.

477 Psychosocial Aspects of Sports Medicine (3) Presents a variety of psychological and sociological factors related to working with patients and athletes in exercise and sports settings, including recognition of abnormal social, emotional, and mental behaviors as well as the ability to intervene and refer these individuals as necessary.

Parallel: AT 373.

Open only to athletic training majors admitted into the Athletic Training Program.

494 Clinical Integration in Athletic Training (1) A laboratory course designed to facilitate the integration of knowledge, skill, and clinical decision making into simulated patient care experiences using the principles associated with evidence-based practice.

Prerequisite: AT 370 and 371 and 372 and 373 and 374.

Open only to athletic training majors admitted into the Athletic Training Program.

495 Medical and Pharmacological Aspects of Athletic Training (4) Develops the medical and pharmacological knowledge and clinical skills that athletic trainers must possess to diagnose, treat, and refer patients with general medical illness/injuries. Laboratory experiences focus on the application of medical and pharmacological knowledge and the clinical skills used to diagnose, treat, and refer patients with medical illness/injuries.

Prerequisite: AT 370 and 371 and 372 and 373.

Open only to athletic training majors admitted into the Athletic Training Program.

496 Clinical Experience in Athletic Training (1-6) Guided experiences in athletic training, which includes the application of knowledge and skills in one or more of the following domains: prevention, clinical evaluation and diagnosis, immediate care, treatment, rehabilitation, and reconditioning, organization and administration, and professional responsibilities.

Prerequisite: permission of the instructor.

A total of 6 hours of credit may be earned.

Open only to athletic training majors admitted into the Athletic Training Program.

497 Clinical Decision Making in Athletic Training (2) Capstone course for the advanced athletic training student. Current topics in sports medicine, athletic training research, and professional responsibilities are investigated to develop clinical decision-making skills based on sound evidence.

Prerequisite: AT 370 and 371 and 372 and 373.

Open only to athletic training majors admitted into the Athletic Training Program.

EXERCISE SCIENCE (EXSC)

New:

302 Physical Activity Throughout the Lifespan (3) Designed to give an overview of recommended physical activity throughout various periods of one's lifetime. This will

include the role that physical activity plays throughout the lifespan in adults, children, older adults, athletes, clinical populations, clients with disabilities and others with special considerations. Offered on-line only.

616 Motor Control (3) Provides an examination of the neural structures and processes involved in the control of movement and in the maintenance of body posture.

Revised:

301 Fundamentals of Exercise Prescription (3) Emphasizes the knowledge and skills necessary to effectively develop and implement an appropriate exercise prescription for adults.

Prerequisite: EXSC 201; advanced program status.

Open only to exercise science majors.

402 Advanced Fitness Assessments in Exercise Science (3)

An advanced laboratory-based course designed to introduce rationale, procedures, and interpretation of health fitness assessments.

Prerequisite: EXSC 301; advanced program status.

Open only to exercise science majors.

698 Internship in Exercise Program (1-3) Provides practical experiences in physical fitness and clinical assessments and in exercise programming in both health/fitness and clinical environments.

Prerequisite: permission of the program coordinator.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

PHYSICAL EDUCATION: PROFESSIONAL (PEP)

Dropped:

101 Fitness Test 1 (0)

102 Fitness Test 2 (0)

103 Fitness Test 3 (0)

Revised:

158 Teaching Dance and Gymnastics (2) Introduction to teaching dance and gymnastics for the physical educator. Provides physical education teaching majors a developmentally appropriate scope and sequence for teaching dance (K-12) in today's schools. Also provides comprehensive skill instruction for teaching gymnastics in a safe environment.

Prerequisite: permission of the coordinator.

Open only to health and physical education teacher education majors.

161 Foundations and Principles of Health and Physical Education (3) Introduction to the field of health and physical education and the health and physical education teaching major to include development of portfolios. Field experience required.

Prerequisite: permission of the coordinator.

Open only to health and physical education teacher education majors.

209 Introduction to Teaching Physical Education (3)

Introduction to content development, teaching styles, and assessment within the areas of games and rhythms primarily in the elementary school curriculum. Field experience required.

Prerequisite: PEP 161; permission of the coordinator.

Open only to health and physical education teacher education majors and elementary education wellness concentration program students.

222 Teaching Field and Court Invasion Games (2)

Focuses on skill development and teaching methodology for selected field and court invasion games (e.g., soccer, basketball, team handball, flag football, floor hockey). Includes laboratory experience.

Prerequisite: permission of the coordinator.

Open only to health and physical education teacher education majors and elementary education majors.

227 Introduction to Adapted Physical Education/Activity (3)

Introductory knowledge of disabilities with emphasis on referral, placement, and programming in physical education and physical activity; relevant federal and state laws that pertain to the education and physical education of students with disabilities; and activity programming across the lifespan. Students are required to participate in field experiences.

232 Teaching Net and Wall Games (2) Focuses on skill development and teaching methodology for selected net and wall games (e.g., tennis, badminton, pickleball, volleyball). Includes laboratory experience.

Prerequisite: permission of the coordinator.

Open only to health and physical education teacher education majors and elementary education majors.

252 Teaching Physical Fitness and Fitness Activities (3)

Introduction to major fitness technology, training principles, youth fitness and appropriate fitness instruction/assessment in a physical education (K-12) setting for the physical educator. Includes laboratory experience.

Prerequisite: permission of the coordinator.

Open only to health and physical education teacher education majors and elementary education majors.

310 Formal Assessment in Health, Physical Education, and Physical Activity Settings (3)

Measurement and evaluation in health, physical education, and physical activity settings. Focus will be put on utilizing formal assessments to establish appropriate learning objectives for students with and without disabilities through the assessment process. Experience in administration of motor and fitness assessments will occur. Includes laboratory experience.

Prerequisite: PEP 161 and 209; meet decision point 2 requirements; or by permission of the coordinator.

Open only to health and physical education teacher education majors.

394 Teaching Physical Education in the Elementary School (3)

Focuses on planning, teaching, and evaluating a

developmental physical education program for elementary school students. Field experience required.

Prerequisite: PEP 161 and 209; health and physical education teacher education majors must meet decision point 2 requirements; or by permission of the coordinator.

Open only to health and physical education teacher education majors and elementary education and wellness concentration students.

399 Teaching Physical Education in the High School (3)

Designed to develop understanding in the ability to plan, implement, and evaluate a variety of teaching strategies to be used in establishing a positive learning environment for high school students. Includes a 20-hour practicum in a high school.

Prerequisite: PEP 161, 209, and 394; meet decision point 2 requirements; or by permission of the coordinator.

Open only to health and physical education teacher education majors.

400 Introduction to Curriculum Design in Physical Education (2)

Introduction to curriculum and curriculum design covering all facets of physical education in the K-12 setting.

Prerequisite: PEP 161, 209, and 394; health and physical education teacher education students must meet decision point 2 requirements; or by permission of the coordinator.

Open only to health and physical education teacher education majors and elementary education majors.

SPORT ADMINISTRATION (SPTA)

Revised:

691 Historical Foundations of Sport (3) An investigation into the history of American sport. In addition to exploring the major sporting eras, this course will emphasize sport as a sociocultural phenomenon ever-present in popular American culture. Specific attention will be given to sport organizations, leagues, teams, and individuals relative to their impact on American culture.

Department of Technology

TECHNOLOGY: COMPUTER TECHNOLOGY (TCMP)

New:

299X Special Topics in Computer Technology (1-6) Special topics relevant to the computer technology field. Course titles will be announced before each semester.

Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned.

Revised:

211 System Administration Fundamentals (3) Introduction to the fundamentals of system administration in a client-server environment. Focus on the management of resources on

prevailing network operating systems.

Prerequisite: minimum grade of C in TCMP 111.

270 Computer and Industrial Electronics (3) Theory and application of electronics in computer technology industry. Includes fundamentals of electricity, DC circuits, introduction to semiconductor devices, microcontrollers, and integrated circuits. Work includes the use of test meters, power supplies, breadboards, and circuit simulation software.

310 Internetwork Design and Administration (3)

Intermediate course in network design and administration. Topics may include layer-2 switching concepts, intermediate IP addressing strategies, and wide area network (WAN) protocols. The application of concept and theory is achieved through labs and case projects.

Prerequisite: minimum grade of C in TCMP 111 and 210.

311 Infrastructure Services (3) A study of the infrastructure services in a network operating system that are required for basic functionality of a networked environment. Topics may include the design, implementation, security, and troubleshooting of infrastructure services such as DNS, DHCP, NAT, and others.

Prerequisite: minimum grade of C in TCMP 211.

340 Wireless Network Communications (3) A study of current and emerging wireless technologies and their integration into the design and implementation of networks. Topics include fundamental wireless communication concepts, wireless local area networks (WLAN), and their impact on organization communications.

Prerequisite: minimum grade of C in TCMP 111 and 210.

371 Voice over Internet Protocol Networking (3) Focuses on the hardware and infrastructure need for Voice over IP (VoIP) network systems. Extensive use of voice enabled network routers, IP telephones, POE switches, and other supporting network equipment is included. Students will configure both small (local office) and large (multi location) VoIP systems.

Prerequisite: minimum grade of C in TCMP 310 and 311.

465 Information Security (3) Covers three tenets of data communications: confidentiality, integrity, and availability. Students will learn to think critically and comprehensively about data security.

Prerequisite: minimum grade of C in TCMP 310 and 311.
Open only to juniors and seniors.

499 (TMFG 499) Problems in Computer Technology (1-3)

Individual advanced study and experimentation in computer technology.

Prerequisite: permission of the department chairperson.
A total of 3 hours of credit may be earned.

TECHNOLOGY: CONSTRUCTION TECHNOLOGY (TCST)

New:

697 Independent Study in Construction Management (0-3)

Advanced academic project directed by a construction management faculty member. Written proposal must be approved by program director prior to term of study.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

698 Advanced Topics in Construction Management (0-3)

Advanced study of special topics in construction management.

A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.

Revised:

180 Construction Documents (3) Overview in the reading and utilization of construction documents, including print reading. Use and analysis of the project manual and specification sections, bidding documents, and other relative subjects.

Prerequisite: TCST 104.

TECHNOLOGY: EDUCATION (TEDU)

Revised:

694 Curriculum Development in Technical Education (3) A review of the philosophical, sociological, and psychological bases for curriculum analysis and development in technical education.

TECHNOLOGY: GRAPHIC ARTS/PRINTING (TGRA)

New:

499 Problems in Graphic Communications (1-3) Individual advanced study and experimentation in graphic communications.

Prerequisite: permission of the department chairperson.
A total of 3 hours of credit may be earned.

Revised:

180 Introduction to Graphic Communications (3)

Introduction to graphic communications through the history of printing, conventional, and digital reproduction of prepress, press, and post press processes. Career opportunities will also be explored.

181 Print Imaging Systems (3) Explores print imaging systems through the use of traditional printing processes. Focus will be on offset lithography, flexography, and gravure. Emphasis will also be placed on artwork preparation, image generation/conversions, plates and platemaking, inks, substrates, presswork and finishing operations associated with these printing processes.

182 Digital Imaging 1 (3) Emphasizes the theoretical and practical applications of digital imaging technologies including

Adobe Illustrator and Adobe Photoshop. Study includes an in depth look at vector and raster graphic file types as well as trapping, photo manipulation, color settings/corrections, color modes, and photo editing.

183 Screen and Specialty Graphics (3) Study of screen and other specialty graphics operations and its relationship to various substrate materials. Includes screen printing, pad printing, 3D printing, and vinyl cutting. A focus is placed on artwork preparation, image generation/conversion, production techniques, equipment requirements and usage, and capabilities in the area of screen and specialty graphics.

282 Digital Imaging 2 (3) Focuses on the development of skills in pagination and file preparation for print and cross media graphics. Students will develop skills in Adobe InDesign while covering topics including: preflighting, imposition, layout, print settings, fonts/typography, and print workflows. Included will be topics on digital toner, and digital ink jet.

381 Color Management (3) Color management is the measurement, evaluation, and monitoring of the color as it is transferred through various input and output devices. Both theoretical and practical applications will be covered with the opportunity for students to understand the complex variables available with the area of graphic communications.

Prerequisite: TGRA 182.

382 Digital Imaging 3 (3) Advanced study of digital imaging systems. Topics include the control and calibration of image creation as well as image output and proofing. Importance of current imaging standards will also be stressed.

Prerequisite: TGRA 282.

385 Cross Media Communications (3) Students will explore the multiple ways alternative media is used to promote communications goals. The creation and interpretation of these methods will provide important information that will allow the student to understand how use of cross media publishing can improve return on investment of traditional print media.

Prerequisite: TGRA 182.

484 Practicum in Graphic Communications (3) Integration of graphic communications processes, from design, to production of print products, and services for clients. Emphasis is placed on managing the process and participating in a variety of roles utilizing skills learned in class. These skills include: customer service, design and layout, time management, planning, press production/supervision, and quality control.

Prerequisite: senior standing or by permission of the department chairperson.

488 Cost Analysis (3) An introduction to project workflow issues and estimating practices prevalent in the graphic communications industry. Emphasis is placed on computer based estimating practices currently used in the industry today, which include estimating, scheduling, and cost analysis.

Prerequisite: senior standing or by permission of the department chairperson.

489 Quality Control and Automation (3) Develops the student understanding and knowledge within the areas of integration, automation, and Lean Manufacturing through an in-depth exploration of control systems used in the printing and publishing industries. Topics of discussion include plant and facility layout (equipment space and safety needs), logistics, inventory control materials handling and health and safety concerns associated with print production (MSDS information, press safety, facility safety, etc.).

Prerequisite: senior standing or by permission of the department chairperson.

TECHNOLOGY: MANUFACTURING (TMFG)

Dropped:

499 Problems in Industrial Technology (1-3)

MILLER COLLEGE OF BUSINESS

Department of Finance and Insurance

Dropped:

MINOR IN CONSUMER FINANCE, 15 hours

FINANCE (FIN)

Revised:

301 Principles of Finance 2 (3) Designed to provide the foundations for advanced courses in finance. Topics include the nature and methodology of finance, risk and return, portfolio theory, investment decisions, capital structure, dividend policy, and long-term financing decisions.

Prerequisite: FIN 300 and ECON 221.

COLLEGE OF FINE ARTS

Department of Theatre and Dance

DANCE (DANC)

Dropped:

242 World Studio 2 (1)

311 Ballet 4 (2)

321 Modern 4 (2)

331 Jazz 4 (2)

Revised:

241 (242) World Studio 2 (1) A survey of the unique movement styles found in world and ethnic dance. Styles covered will vary each semester and may include the traditional dances of the Americas and parts of Africa.

Prerequisite: permission of the department chairperson.

A total of 3 hours of credit may be earned, but no more than 1 in any one semester or term.

410 (311) Ballet 4 (2) Advanced ballet, pointe technique, and theory. Emphasis is placed on performance skills in classical ballet. Barre and centre are performed on pointe at this level.

Prerequisite: permission of the department chairperson.

A total of 8 hours of credit may be earned, but no more than 2 in any one semester or term.

420 (321) Modern 4 (2) Development of modern dance technique, theory, and personal artistry at the advanced level. Approaches to achieving a greater sense of self and kinetic experiences will be explored with added emphasis on theory and/or philosophies of modern dance technicians and choreographers.

Prerequisite: permission of the department chairperson.

A total of 8 hours of credit may be earned, but no more than 2 in any one semester or term.

430 (331) Jazz 4 (2) A continuing study of jazz dance technique at the advanced level. Emphasis is placed on technical precision, increased complexity of turns and leaps, musicality, performance artistry, and stylistic execution.

Prerequisite: permission of the department chairperson.

A total of 8 hours of credit may be earned, but no more than 2 in any one semester or term.

THEATRE (THEA)

New:

221 Advanced Stagecrafts (2) The advanced study of the fundamentals of the crafts involved in theatrical production including stage construction, rigging, and automation.

Prerequisite: THEA 220.

427 Theatre Sound Design (3) Lecture-laboratory in the basic concepts, materials, hardware, and principles of theatrical sound design.

Prerequisite: THEA 327.

429 Makeup and Hair Design for the Theatre (3) Advanced study of the principles, techniques, and materials for stage makeup and hair design with practical experience in their application.

Prerequisite: THEA 229.

Revised:

223 Costume Technology (3) An introduction to the fundamentals of theatrical costuming with attention given to costume technology and construction.

224 Costume Form and Materials (2) Exploration of the basic forms, materials, and concepts with emphasis on the three-dimensional human body. The course also employs various media to develop experimental concepts and skills.

326 Stage Lighting Technology (3) Lecture-laboratory in the basic concepts, materials, hardware, and design principles of stage lighting. Practical laboratory work in stage lighting of university productions.

426 Stage Lighting Design (3) Lecture-laboratory in the basic concepts, materials, hardware, and design principles of stage lighting. Practical laboratory work in stage lighting of university productions.

Prerequisite: THEA 326.

COLLEGE OF SCIENCES AND HUMANITIES

Department of Anthropology

ANTHROPOLOGY (ANTH)

Revised:

532 Native Americans of the Great Lakes (3) In-depth study of selected Native American cultures indigenous to the Great Lakes region from the time of European contact to the contemporary period. Required for students with a research focus in Midwestern archaeology.

Not open to students who have credit in ANTH 332.

541 Anthropology of Gender (3) Considers many different ways in which gender intersects with race, ethnicity, class, religion, and sexuality. Class topics will include cross-cultural ideas and practices regarding femininity and masculinity, the politics of production and reproduction, globalization and migration, and violence and militarism as well as the ways that people subscribe to and/or resist gender norms.

Not open to students who have credit in ANTH 341.

545 Archaeological Field School (3-6) Provides the practical application of archaeological methods, techniques, and strategies in a field setting. Participation in a supervised investigation of a formal archaeological problem at an actual archaeological site or at an experimental site. Only three (3) hours will count towards the research focus area electives.

Prerequisite: permission of the instructor.

A total of 6 hours of credit may be earned.

550 Ethnographic Field School (3-12) An intensive immersion in the methods of field research in cultural anthropology. Emphasizes problem formulation, observation, interviewing, writing, and interpretation of field data. Field schools are intended to provide specific skills that result in an ethnographic report. Only three (3) hours will count towards the research focus area electives.

Prerequisite: permission of the instructor.

A total of 12 hours of credit may be earned.

Department of Computer Science

COMPUTER SCIENCE (CS)

Dropped:

116 Visual Programming (3)

204 Personal Computing (1)

205 Multimedia Programming (1)

206 Digital Imaging for the Web (1)

299X Experimental/Developmental Topics (3-6)

324 Design and Analysis of Algorithms (3)

436 Database Design (3)

470 Theory of Computation 1 (3)

517 Introduction to Programming (3)

Revised:

105 (205) Multimedia Programming (1) Introduction to end-user multimedia programming for Internet deployment. Includes laboratory use of common software tools, such as Flash and ActionScript, for creation, manipulation, and network transfer of multimedia content.

106 (206) Digital Imaging for the Web (1) Understanding multimedia compression algorithms and storage formats, such as JPEG, PNG, TIFF, and BMP, and their applications to the Web. Includes laboratory use of common software tools such as Photoshop and Dreamweaver for creation, manipulation, and network transfer of graphics and Web pages.

107 (204) Personal Computing (1) Topics include home networking, hardware and software trends, digital media, storage formats such as MP3 and MPEG4, ubiquitous computing, ethics, digital rights management, and personal entertainment devices. Includes laboratory use of common tools and devices.

222 Advanced Programming (3) Project-intensive study of advanced topics and best practices in software development, including advanced language features, modular decomposition, and development tools.

Prerequisite: CS 121, and either CS 124 or MATH 215, all with C- or better grades; and ENG 103 or equivalent.

Open only to majors, minors, and graduate students in programs offered by the Department of Computer Science.

224 (324) Design and Analysis of Algorithms (3) Topics include: analysis of algorithms; dynamic programming; probabilistic algorithms, examples of geometric,

combinatorial, and graph algorithms, pattern matching; introduction to NP-completeness.

Prerequisite: CS 121 and either CS 124 or MATH 215, all with C- or better grades.

Parallel: either MATH 161 or 165.

Open only to majors, minors, and graduate students in programs offered by the Department of Computer Science.

239 Social and Professional Issues (1) Discussion of social and professional issues in computer science.

Prerequisite: CS 222 with a C- or better grade.

299 (299X) Experimental/Developmental Topics (3-6)

Topics relevant to the discipline. Course titles will be announced before each semester.

A total of 6 hours of credit may be earned.

327 Distributed Processing and Networks (3) The hardware and software of computer networks and distributed processing. Develops the important design parameters and a general design methodology.

Prerequisite: CS 224 with a C- or better grade.

346 (436) Database Design (3) An introduction to database design, including physical representation, modeling, database systems, and implementation.

Prerequisite: CS 222 with a C- or better grade.

380 (470) Theory of Computation 1 (3) Mathematical logic; alphabets and languages; finite automata, regular and nonregular languages, Kleene's theorem; regular grammars; pushdown automata and context-free grammars; Turing and Post machines; recursive and recursively enumerable languages; the Chomski Hierarchy.

Prerequisite: CS 224 with a C- or better grade.

430 Systems Programming (3) Considers the computer system from the points of view of its architecture, operating system, and applications. Topics include processor organization, peripheral devices, I/O programming, system programs, monitor services, file organization, and real-time applications.

Prerequisite: CS 376 with a C- or better grade.

616 Digital Animation (3) Introduces tools and skills needed to create digital animations. Students work with different development environments, techniques, interface designs, and audio/visual sequences.

Open only to students not in computer science or software engineering programs.

617 (517) Introduction to Programming (3) Software development using a high-level programming language (such as C++ or Java) for a wide range of information system applications. Structured programming, data types, functions, arrays, pointers, and recursion. Applications from areas of interest.

Open only to students not in computer science or software engineering programs.

Department of Criminal Justice and Criminology

CRIMINAL JUSTICE AND CRIMINOLOGY (CJC)

Revised:

221 Data Analysis in Criminal Justice (3) Introduction to data analysis in the study of crime, criminality, and the criminal justice system. Emphasizes computer applications in the analysis of data and use of existing records and sources of information.

Prerequisite: CJC 101 and 102; or permission of the department chairperson.

Department of English

ENGLISH (ENG)

Revised:

690 Seminar in Composition (3) Special research problems in English composition using recognized techniques of research, extensive readings in selected texts, group discussions, and conferences.

Prerequisite: permission of the department chairperson.

A total of 18 hours of credit may be earned.

Department of History

HISTORY (HIST)

Dropped:

419 The Trans-Mississippi Frontier (3)

428 The Caribbean (3)

519 The Trans-Mississippi Frontier (3)

New:

446 History in the Digital Age (3) Prepares students to employ and understand a wide variety of current and emerging digital technologies used in history and the humanities. Students will study the development of the relationship between the discipline of history and computing tools over time through a combination of theoretical and hands-on activities that explore the key ideas and events leading to the recent digital turn in the humanities. No digital experience is assumed.

546 History in the Digital Age (3) Prepares students to employ and understand a wide variety of current and emerging digital technologies used in history and the humanities.

Students will study the development of the relationship between the discipline of history and computing tools over time through a combination of theoretical and hands-on activities that explore the key ideas and events leading to the recent digital turn in the humanities. No digital experience is assumed.

Not open to students who have credit in HIST 446.

661 Seminar in Digital History (3) Explores the current and potential impact of digital media on the theory and practice of history. Students will examine significant digital history scholarship and study how digital tools and resources are enabling both new methods for analysis in traditional print scholarship and possibilities for new forms of scholarship. The seminar will culminate in the creation of an advanced digital research module on a topic in American, European, or world history.

Revised:

318 (419) History of the American West (3) Survey of the history of the U.S. West, a region of Native North America that has been the object of Spanish, French, English, and American expansionism, and finally a distinct region with a unique relationship to the U.S. federal government. Explores the U.S. West as both a shifting geographic region, and as a frontier process involving migration, political and social expansion, and cultural change.

518 (519) History of the American West (3) Survey of the history of the U.S. West, a region of Native North America that has been the object of Spanish, French, English, and American expansionism, and finally a distinct region with a unique relationship to the U.S. federal government. Explores the U.S. West as both a shifting geographic region, and as a frontier process involving migration, political and social expansion, and cultural change.

Not open to students who have credit in HIST 318.

Department of Physics and Astronomy

PHYSICS (PHYC)

Revised:

434 Thermal Physics (3) Classical and statistical thermodynamics. Basic concepts, principles, and theories of thermodynamics. Equations of state, laws of thermodynamics, introduction to the kinetic theory of gases, and classical and quantum statistics.

Prerequisite: PHYC 330; MATH 267 or permission of the department chairperson.

534 Thermal Physics (3) Laws of thermodynamics and introduction to the kinetic theory of gases. No regularly scheduled laboratory.

Prerequisite: PHYC 330 or permission of the department chairperson.

Not open to students who have credit in PHYC 434.

675 Statistical Mechanics (3) Thermal physics, kinetic theory, and statistical mechanics.

Prerequisite: PHYC 434 or 534, or permission of the department chairperson.

Department of Physiology and Health Science

HEALTH SCIENCE (HSC)

Revised:

363 Current Issues in Administration and Coordination of Health and Physical Education (3) Addresses new and emerging issues in education, school health and physical education. Specific processes and issues associated with best practices in needs assessment, planning, implementing, evaluating school-based programs; coordination of school health/PE policies and programs in accordance with national and state guidelines; and controversial issues associated with health and wellness will be addressed.

Prerequisite: HSC 290 and 295 or permission of the department chairperson; meet decision point 2 requirements.

Open only to health and physical education teacher education majors.

395 Methods, Materials, and Curriculum for Teaching Health Education (3) Application of the roles of the health teacher in a school setting. Functions considered include curriculum development including planning for instruction, instructional strategies, assessment; strategies for engaging diverse learners; and acting as a resource person for school health.

Prerequisite: HSC 290, 295, and 363; or permission of the department chairperson; completion of decision point 2.

Open only to health and physical education teacher education majors.

TEACHERS COLLEGE

Department of Educational Leadership

EDUCATION: ADMINISTRATION (EDAD)

New:

695 Career/Technical Director Internship (3 or 6) Practical experience in the duties and responsibilities of a career/technical director. This internship is served under the direct supervision of an on-site, experienced educational administrator or director ("field of supervisor") and a member of the faculty of the BSU Department of Educational Leadership. Specialized and in-depth projects are included to provide for the participant's special needs and specific interests. Personal reflection, organization of activities and self-assessment are also important components of the internship experience. Internships are approved through the

Department of Technology. Offered on-line only.
A total of 6 hours of credit may be earned.

700 Independent Study (1-6) Designed to meet the needs of students who wish to conduct independent study and research in educational leadership.

Prerequisite: permission of the department chairperson.
A total of 6 hours of credit may be earned.
Open only to specialist and doctoral students.

750 Seminar in Quantitative Applications for Educational Leaders (3) Seminar in educational leadership for practitioners needing to update knowledge and skills in applied leadership. This seminar provides students an opportunity to apply quantitative data analysis skills. Emphasizes academic writing, quantitative data collection, and analysis. May be used as a choice in the EDAD specialization or a cognate in the General Field of Education; cannot be applied as a required research course.

Prerequisite: master's degree or permission of the department chairperson.
Open only to doctoral students.

751 Seminar in Qualitative Applications for Educational Leaders (3) Seminar in educational leadership for practitioners needing to update knowledge and skills in applied leadership. This seminar provides students an opportunity to apply qualitative data analysis skills. Emphasizes academic writing, qualitative data collection, and analysis. May be used as a choice in the EDAD specialization or a cognate in the General Field of Education; cannot be applied as a required research course.

Prerequisite: master's degree or permission of the department chairperson.
Open only to doctoral students.

792 Seminar in Writing and Analyzing Dissertation Literature Reviews (3-6) Students will receive training in efficient use of the Ball State University Library resources, review outstanding literature reviews, develop skills useful in identifying and synthesizing quality research studies in their topics of interest, and engage in argumentative analysis. Students will learn techniques for organizing and expressing their ideas, as well as mapping and analyzing ideas. An objective of the course is for students to write a draft of their dissertation literature reviews.

Prerequisite: completion of at least three other EDAD courses or permission of the department chairperson.
A total of 6 hours of credit may be earned.
Open only to doctoral students.

797 Advanced Policy Seminar in Educational Administration (Introduction to Educational Policy) (3) This seminar is designed to introduce students to educational policy debates, with a particular focus on the major issues and challenges facing U.S. policymakers.

Prerequisite: permission of the department chairperson or program director.
Open only to specialist or doctoral students.

Revised:

798 Advanced Political Seminar in Educational Administration (Politics and Education) (3) Students enrolled in this seminar will become familiar with the ways in which the political process impacts the management, procedures, and practices in educational institutions. Students will learn to track legislation and use state agency data to assist their school corporation. They will more clearly define their positions on political issues and acquire expertise in representing their school corporation to the local community and influencing political entities.

Prerequisite: permission of the department chairperson or program director.
Open only to specialist or doctoral students.

Department of Educational Psychology

EDUCATIONAL PSYCHOLOGY (EDPS)

Revised:

651 Personality Assessment of Children and Adolescents (3) Theory, administration, scoring, and interpretations of personality assessment instruments such as projective techniques, rating scales, personality inventories, etc., typically used for children and adolescents.

Prerequisite: EDPS 653; and CPSY 631 or permission of the program director.

656 Pediatric Neuropsychology (3) Advanced study of brain-behavior relationships in children and adolescents with special emphasis on neurodevelopment. Assessment procedures useful in diagnosis and rehabilitation planning and research concerning various childhood neuropsychological disorders.

Prerequisite: EDPS 652 or permission of the department chairperson.

Ron Murphy, Associate Director
Office of Academic Systems

