

BALL STATE UNIVERSITY

ACADEMIC POSTING

2010-2011

VOLUME XLII – 6

February 25, 2011

This posting may contain all or part of the following: new, revised, and dropped programs, courses and prefixes. The posting period begins February 28, 2011. 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 March 24, 2010 is Fall Semester 2011. Graduate materials posted after January 27, 2009 have an implementation date of Fall Semester 2011.*

University Core Curriculum

Revised:

Tier 1 Foundation

History

HIST 151 and 152 substitutes for HIST 150, which will satisfy the core foundation history requirement.

Tier 1 Domain

Social Sciences

COMM 290 Intercul Com (3) (IR)

Tier 2

Fine Arts/Design

CAP 200 Design Think (3) (E)
DANCE 302 Dance Hist 2 (3) (W)
THEAT 317 Pre-Mod Hist (3) (W)

Humanities

ANTH 463 His Arc T&M (3) (W)
CC 202 Cult Life Ro (3) (W)
205 Myths World (3) (IR)
HIST 370 Pre Mod Asia (3) (IR)
PHIL 304 Phil Sport (3) (W)
RELST 280 Top Amer Rel (3) (R)
290 Top Asia Rel (3) (IR)

Natural Sciences

ASTRO 151 Univrs & You (3) (T)
CHEM 200 Soc & Chem (3) (ST)
NREM 211 Water Resour (3) (I)
221 Soil Resourc (3) (E)
PHYCS 151 Ener Tec Soc (3) (T)

Social Sciences

ANTH 231 Intro Nat Am (3) (IRA)
ECON 309 Am Ec Hist 1 (3) (IEA)
310 Am Ec Hist 2 (3) (ERA)
331 Labor Econ (3) (RA)
FCSFC 250 Family Relat (3) (A)
SOC 421 Minorities (3) (R)
SOCWK 230 Behav Envr 1 (3) (R)
WGS 210 WGS Intro (3) (R)

Tier 3 Course/Experience

ACR 438 Sr Ptj Glass (3)
AHS 480 AHS Thesis (3)
AHSC 485 R C Pract 4 (6)
ANTH 369 Internship (1-6)
445 Arch Fld Sch (6)
450 Ethn Fld Sch (6-12)
479 Unpd Intern (1-6)
CHEM 400 Chem Commun (1) (W)
ECON 369 Internship (1-6)
424 Econometrics (3) (W)
FR 470 Immers Study (1-3)
GEOL 383 Field Geology (6)
GER 470 Immers Study (1-3)
HIST 300 Internship (3-12) (W)
369 Paid Intern (3-12) (W)
ISOM 480 O M Int Proj (3)
JAPAN 470 Immers Study (1-3)
JOURN 369 Internship (0-3)
479 Unpaid Int (0-3)
MATHS 498 Senior Sem (2) (W)
MGT 491 Policy Strat (3)
NREM 369 Pro Prac Exp (1-3)
PHYCS 482 Indpen Study (1-3) (W)
SP 401 His Span Lit (3)
402 Hist Spa Lit (3)
SPTAD 479 Spt Ad Inter (12)
WGS 499 WGS Capstone (3)

Wiser + Courses

Writing

GER 302 Composition (3)
SOCWK 330 Behav Envr 2 (3)

International

FCSFA 270 Fashion Indy (3)

Interdepartmental Programs

INTERDEPARTMENTAL (ID)

New:

ID 165. Premiere Pro. (1.0) An introduction to real-time, timeline based video editing software with Adobe Premiere. Topics include importing and managing tapeless media, creating transitions, producing titles, adding video effects, mixing sound, compositing the footage, adjusting color, and exporting. This course is in preparation to become an Adobe Certified Associate in Premiere Pro. Offered credit/no credit only.

ID 166. InDesign. (1.0) An introduction to creating documents with Adobe InDesign. Topics include creating documents for print, online, or mobile devices, import and edit text, styles, graphics, tables, interactivity through animation, video, or sound. The first step in preparation to become an Adobe Certified Expert in InDesign. Offered credit/no credit only.

ID 167. Fireworks. (1.0) An introduction for creating and integrating highly optimized graphics with Adobe Fireworks. Topics include working with images and layers, working with text, optimizing for the Web, creating simple graphical buttons, rollover effects, pop-up menus, and improving your workflow along with collaborating with other Adobe Creative Suite applications. Offered credit/no credit only.

ID 168. Lightroom. (1.0) An introduction for creating the best of your digital photography with Adobe Lightroom. Topics include importing, organizing and selecting images, developing and editing, creating slideshows, printing, publishing, and exporting your photos. Offered credit/no credit only.

ID 169. Soundbooth. (1.0) An introduction for sound editing with Adobe Soundbooth. Topics include creating audio, basic edits including trimming, panning, and fading clips along with removing

unwanted noise, exploring effects, mixing and editing multitrack projects. Offered credit/no credit only.

ID 170. Aperture. (1.0) An introduction to photo enhancement and management. Topics include managing and adding metadata, organizing photos, creating advanced slideshows that include HC videos, titles, and layered soundtracks, indexing photos with Faces and Places, and creating workflows for photo shoot production. Offered credit/no credit only.

ID 171. Encore DVD. (1.0) An introduction to creating DVDs. Topics include creating DVDs with advanced features such as interactive menus, multiple audio tracks, and subtitle tracks as well as learning about a slideshow editor, updated user interface, automated chapter menus, and flowchart. Offered credit/no credit only.

ID 172. Logic Pro. (1.0) Made for musicians who want to write, record, edit, and mix audio. Topics include recording and editing MIDI data, working with audio effects, understanding workflow techniques, mixing and automation, manipulating pitch and time, and using software instruments. Offered credit/no credit only.

ID 173. Maya. (1.0) An introduction to 3D animation. Topics include learning the core concepts of CG and working in 3D, modeling, texturing, lighting, animation, and rendering. Offered credit no/credit only.

ID 181. Pro Tools 101. (1.0) Covers basic Pro Tools principles. Topics include recording live instruments, MIDI sequencing of software synthesizers, audio editing, and region looping. Students will complete a project from set up to mixdown. This is the first step in preparation to become a certified Pro Tools Operator. Offered credit/no credit only.

ID 182. Pro Tools 110. (1.0) Provides a more detailed look at the Pro Tools system reinforcing knowledge learned in Pro Tools 101. It covers all the key concepts and skills needed to operate a Pro Tools LE system. This is the second step in preparation to become a certified Pro Tools Operator. Offered credit/no credit only. Prerequisite: ID 181.

ID 282. Pro Tools 201. (1.0) Covers the core concepts and skills needed to operate a Pro Tools/HD system in a professional studio environment. Continues to build on the fundamental concepts covered in previous courses. This is the third step in preparation to become a certified Pro Tools Operator. Offered credit/no credit only. Prerequisite: ID 182.

ID 283. Pro Tools 210p. (1.0) Covers techniques for working with Pro Tools in a professional post production environment. Concepts and skills learned in Pro Tools 101, 110, and 201 are reinforced with practical post-specific examples. This is the final step in preparation to become a certified Pro Tools Operator, Post. Offered credit/no credit only. Prerequisite: ID 282.

ID 284. Pro Tools 210m. (1.0) Covers techniques for working with Pro Tools systems in a professional music production environment. Concepts and skills learned in Pro Tools 101, 110, and 201 are reinforced with practical music-specific examples. This is the final step in preparation to become a certified Pro Tools Operator, Music. Offered credit/no credit only. Prerequisite: ID 283.

College of Applied Sciences and Technology

SCHOOL OF NURSING

Revised:

Admission

Applicants must meet the admission requirements of the Graduate School as well as additional requirements of the School of Nursing. Contact the School of Nursing for additional information.

Applicants must also:

- Have graduated from a National League for Nursing Accrediting Commission (NLNAC) or Commission on Collegiate Nursing Education (CCNE) accredited baccalaureate or master's program in nursing with a minimum grade point average of 3.2 on a 4.0 scale.
- Have acceptable scores on the Graduate Record Examination (GRE).
- Have completed an undergraduate or graduate level statistics course and nursing research course.
- Have completed an undergraduate or graduate level health assessment course.
- Have an unencumbered license as a registered nurse in the state of practice.
- Have a minimum of one year of nursing clinical experience for new baccalaureate nursing graduates or recent clinical experience for other nurses before enrolling in clinical courses.

- Meet all health clearance, criminal background checks, and other requirements for clinical practice.

The Admission and Progression Committee will review all application materials and a phone interview will be conducted prior to determination of acceptance in the program.

The number of applicants admitted to the Doctorate of Nursing Practice (DNP) program is limited. Admission will be competitive and meeting the minimum admission criteria does not ensure that an applicant will be admitted to the program.

Points of Entry into DNP Program

Nurses may apply and be admitted to the DNP program at two entry points — post nursing baccalaureate degree (BS to DNP) or after completion of a master's degree or higher in nursing.

Nurses who have a nursing baccalaureate degree but who do not have a master's degree in nursing may be admitted directly to the DNP program.

Nurses who have completed a master's degree in nursing at Ball State University School of Nursing in Adult or Family Nurse Practitioner or Adult Health Clinical Nurse Specialist track may be admitted to the DNP program and are able to apply earned master's degree credit hours toward the required minimum post baccalaureate 90 credit hours.

Nurses who have completed a master's degree in nursing at Ball State University School of Nursing in the Leadership track (Nurse Educator or Nurse Administrator) may be admitted to the DNP program but must complete Adult or Family Nurse Practitioner or Adult Health Clinical Nurse Specialist track courses prior to starting the DNP core courses. Earned master's degree in nursing credit hours can be applied toward the required minimum post baccalaureate 90 credit hours.

Plans of study for nurses who have completed a master's or higher degree in nursing from another university will be designed to meet the requirements of Ball State University School of Nursing without duplication of equivalent courses. A minimum of 48 of the required minimum post baccalaureate 90 credit hours must be completed at Ball State University.

DNP Program Graduation Requirements

The DNP program requires completion of a minimum of 90 post baccalaureate credit hours including a minimum of 1000 post baccalaureate clinical hours.

The DNP program requires completion of a scholarly project (4 credit hours) under the advisement of a nursing faculty member with evaluation by a faculty committee. The DNP project (NUR 792) is completed within the context of 360 supervised practicum hours (NUR 790/791). As is standard with other practice or professional doctorates, a dissertation is not required.

DOCTORATE IN NURSING PRACTICE

PREFIX	NO	SHORT TITLE	CR HRS
NUR	603	Nur Theory	3
	604	Research	3
	605	Nur Info	2
	607	Data Anly	3
	610	Concp Anls 1	3
	611	Concp Anls 2	3
	614	Concp Anls 3	3
	630	Clin Role	3
	632	Pathophys	3
	634	HI Assessmnt	3
	638	Pharm	3
	672	Role Expt	4
	680	Adv Adult	7
	682	Prim Child	4
	684	Prim Women	3
	730	Stats HI Res	3
	740	Mdls of Care	3
	742	Research EBP	3
	744	Outcomes Res	3
	760	Popltn Care	4
	762	HI Bus Econ	3
	764	Lp HI Pl Pr	4
	780	Adv Topics	3
	790	Prac 1	3
	791	Prac 2	3
	792	DNP Proj 1	3
	793	DNP Proj 2	3
Directed elective courses			3
			91 hrs

SCHOOL OF PHYSICAL EDUCATION, SPORT, AND EXERCISE SCIENCE

Revised:

MASTER OF ARTS OR MASTER OF SCIENCE IN PHYSICAL EDUCATION AND SPORT

Sport and Exercise Psychology, 33 hours
Core requirements

PEP	609	Sp Psy	3
	644	Psy Soc SPA	3
	660	Psy Ex Hlth	3
	690	Sp Sociology	3
AT	577	Psy Inj Rhb	3

Research requirements

Master of Arts, research paper/creative project			
PEP	601	Research App (3)	
EDPSY	641	Statist Meth (3)	
RES	697	Research Ppr (1-3)	
or			
CRPRJ	698	Creat Proj (3 or 6)	9-12

Directed electives

ANTH	559	Ethno Method (3)	
CPSY	621	Theo Tch Cou (3)	
EDPSY	603	Human Devel (3)	
	640	Methodology (3)	
	642	Interim Stat (3)	
	646	Tests Meas (3)	
	742	Statist Tech (3)	
EXSCI	603	Exer Phys 1 (3)	
PEP	600	Internship (1-6)	
	608	Motor Learn (3)	
	612	Motor Dvlpt (3)	
ACE	610	Psych Coach (3)	
PSYSC	613	Developmentl (3)	
	615	Learn Motiva (3)	
	616	Percp Cognit (3)	
	623	Theor Persnl (3)	
	632	Abnormal (3)	6-9

33 hrs

Master of Science, thesis

EXSCI	611	Res Methods (3)	
EDPSY	641	Statist Meth (3)	
THES	698	Thesis (1-6)	12

Directed electives

ANTH	559	Ethno Method (3)	
CPSY	621	Theo Tch Cou (3)	
EDPSY	603	Human Devel (3)	
	640	Methodology (3)	
	642	Interim Stat (3)	
	646	Tests Meas (3)	
	742	Statist Tech (3)	
EXSCI	603	Exer Phys 1 (3)	
PEP	600	Internship (1-6)	
	608	Motor Learn (3)	
	612	Motor Dvlpt (3)	
ACE	610	Psych Coach (3)	
PSYSC	613	Developmentl (3)	
	615	Learn Motiva (3)	
	616	Percp Cognit (3)	

623	Theor Persnl (3)	
632	Abnormal (3)	6
		<hr/>
		33 hrs

Requirements for graduation (sport and exercise psychology)

- Students must be a member of one of the professional associations such as the American Alliance for Health, Physical Education, Recreation and Dance (AAHPERD); Association of Applied Sport Psychology (AASP); or an advisor-approved sport psychology-related organization (e.g., American College of Sports Medicine).
- Students must attend a sport psychology related conference while registered as a student in the sport and exercise psychology specialization.

DEPARTMENT OF TECHNOLOGY

Revised:

TEACHING MAJOR IN TECHNOLOGY EDUCATION, 48 hours

The major in technology education prepares students to teach technology education at the secondary level (grades 6-12).

<i>PREFIX</i>	<i>NO</i>	<i>SHORT TITLE</i>	<i>CR HRS</i>
ITCST	250	Cn Mthd Ma 1	3
ITDPT	100	Tech Society	3
	204	Engy Process	3
	210	Eng Prin	3
	303	Manufact Sys	3
	406	Tech Dec-Mak	3
ITEDU	108	Prod Techn	3
	304	Transpor Sys	3
	305	Communic Sys	3
	403	Tech Enterpr	3
	410	Capstone Tec	3
MATHS	111	Pc-Coll Alg	3
		One directed elective	3
3 hours from design competency			
ITEDU	102	Design Tech (3)	
ITMFG	105	Tec Dsgn Gra (3)	
ITCST	106	CAD Cnst Mgt (3)	3

3 hours from information processing

ITGRA	180	Intro Gr Art (3)
ITCMP	111	Mic Asb T S (3)

CS	110	Intro C S (3)	3
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3 hours from engineered resources

ITDPT	203	Matl Process (3)	
ITMFG	262	Mfg Material (3)	3
			<hr/>
			48 hrs

Students must complete ITEDU 195, 395, and 396 prior to student teaching.

College of Architecture and Planning

COLLEGE OF ARCHITECTURE AND PLANNING (CAP)

New:

CAP 200. Design Thinking. (3.0) Introduction to the fundamental characteristics and practice of design thinking. Students will become aware, understand, and learn to use design methods to match people's needs with what is feasible and viable in a creative framework that challenges conventional problem solving and/or decision-making strategies.

Miller College of Business

Revised:

Prerequisite Requirements

Although no specific undergraduate major is required for admission, the quantitative nature of the MBA program requires that the student possess a strong background in mathematics and statistics. The student must also possess proficiency in microcomputer applications (spreadsheet, word processing, database, and presentation software), and possess familiarity with the Internet. These competencies will be the responsibility of the student to acquire and will be assumed.

MASTER OF BUSINESS ADMINISTRATION

<i>PREFIX</i>	<i>NO</i>	<i>SHORT TITLE</i>	<i>CR HRS</i>
Required courses			
MBA	601	Ldr & Ethics	3
	611	Stats & Q M	3

621	Inf Sys	3
631	Acc Dec	3
651	Mgrl Econ	3
661	Mgrl Fin	3
671	Mkg Mgt	3
691	Gl Str Mgt (3)	
or		
MGT 649	Entrpr Strat (3)	3
Electives		6
		<hr/>
		30 hrs

DEPARTMENT OF ECONOMICS

New:

CERTIFICATE IN HEALTH ECONOMICS, POLICY AND ADMINISTRATION

PREFIX	NO	SHORT TITLE	CR HRS
ECON	548	Health Econ (3)	
	or		
MBA	651	Mgrl Econ (3)	3
ECON	683	H Econ Anlys	3
	693	H Econ & Pol	3
Electives, 3 hours from			
MGT	661	Hman Res Mgt (3)	
RMI	570	Risk Mgt Ins (3)	
MKG	505	Survey Mrktg (3)	
BL	665	Law Ethics (3)	3
			<hr/>
			12 hrs

DEPARTMENT OF INFORMATION SYSTEMS AND OPERATIONS MANAGEMENT

Revised:

MAJOR IN OPERATIONS AND SUPPLY CHAIN MANAGEMENT, 63 hours

PREFIX	NO	SHORT TITLE	CR HRS
Miller College of Business core, 39 hours			
ACC	201	Prin Acct 1	3
	202	Prin Acct 2	3
BL	260	Prin Bus Law	3
ECON	201	Elem Micro	3
	202	Elem Macro	3
	221	Bus Stats	3

FIN	300	Prin Fin 1	3
ISOM	135	Bus I S	3
	249	Fnds Bus Com	3
	351	Op Mgt	3
MGT	300	Mgt Beh Org	3
	491	Policy Strat	3
MKG	300	Prin Market	3
			<hr/>
			39 hrs

Operations management core, 18 hours

ISOM	300	Proj Mgt	3
	321	Quan Bus Anl	3
	452	Inv Mgt	3
	453	Manu Pln	3
	480	O M Int Proj	3
MKG	460	Sup Chn Mgt	3
			<hr/>
			18 hrs

Electives

Select two from the following list,
6 hours from

ISOM	355	Quality Mgt (3)	
	369	Intrn ISOM (1-6)	
	430	ERP Ap & Pro (3)	
	454	Sply Chn Mgt (3)	
	459	Curr Op Mgt (3)	
ITMFG	365	Advn Six Sig (3)	
MKG	345	Pro Sup Mgt (3)	6
			<hr/>
			63 hrs

To pursue this program, students must have sufficient mathematical preparation to meet the prerequisite for ECON 221. The prerequisite for ECON 221 is a C or better grade in MATHS 111 or the equivalent; sophomore standing; demonstrated proficiency in computer skills. MATHS 132 simultaneously substitutes for the University Core Curriculum math requirement. Proficiency in computer skills may be demonstrated by examination, or credit in ISOM 125 or CS 104 or its equivalent. The prerequisite for ISOM 135 is proficiency test required, or ISOM 125 or CS 104.

BUSINESS EDUCATION (BED)

Revised:

BED 551. Practicum in Business and Marketing Education. (1.0 TO 6.0) Supervised experience in curriculum planning and development of instructional materials for business and marketing education at the secondary and postsecondary levels. A total of 6 hours of credit may be earned.

BED 592. Managing In-School Laboratory and Cooperative Business/Marketing Programs. (3.0) Special techniques and knowledge for managing in-school laboratory and business, career and technical, marketing, and interdisciplinary cooperative education programs.

BED 593. Philosophy, Organization, and Administration of CTE. (3.0) The principles upon which career/technical education is organized, administered, and supervised; federal and state regulations; agencies that provide delivery systems for career/technical education; vocational rehabilitation, and programs for persons with special needs.

BED 594. Survey of Career/Technical Education Program Areas. (3.0) An overview of career/technical education program areas. Includes program administration and supervision, objectives, the occupations for which training is offered, curricula, equipment and facilities, student selection, in-school laboratories, field-training opportunities, and youth organizations.

BED 616. Research Methods in Business and Marketing Education. (3.0) The concepts and methodology used in business and marketing education research; introduction to research design, methodology, research limitations, and proposal preparation; analysis of completed research in business and marketing education; determination of needed research.

BED 617. Administration of Business and Marketing Education Programs. (3.0) The purposes, functions, and principles of administration and supervision of business and marketing education programs. Uses case studies and simulations to solve business and marketing education problems under conditions of uncertainty. Uses problem solutions to teach decision making, organization planning, and strategy formulation.

BED 620. Improvement of Instruction in Technology for Business and Marketing Programs. (3.0) Research, issues, strategies, and methods of teaching technology and communications in secondary and postsecondary business and marketing education programs. Open to students teaching business and/or marketing education or those seeking a business and/or marketing education teaching credential.

BED 622. Improvement of Instruction in Basic Business and Marketing Programs. (3.0) Methods, materials, and strategies for teaching basic business and marketing in secondary and postsecondary

programs. Open to students teaching business and/or marketing education or those seeking a business and/or marketing education teaching credential.

BED 624. Advanced Cooperative and Laboratory Methods. (3.0) Techniques for improving and refining cooperative and laboratory methods in business and marketing education programs. Encompasses the development, operation, and evaluation of cooperative education and laboratory business and marketing education methods.

BED 625. Problems and Issues in Business and Marketing Education. (3.0) Identification of the problems in constructing curriculum and implementing sound business and marketing education at the secondary and postsecondary levels and a study of possible solutions; assessment of the significance of legislative, economic, and societal events in business and marketing education decision making.

BED 627. Seminar in Business and Marketing Education. (1.0 TO 3.0) Individual investigation into current problems, issues, and developments in business and marketing education at the secondary and postsecondary levels. Assigned readings and conferences. A total of 3 hours of credit may be earned.

BED 628. Workshop in Business and Marketing Education. (1.0 TO 8.0) Curriculum planning; test construction; preparation of other visual aids, enrichment materials, and resource units; and similar concerns at the secondary and postsecondary levels. A total of 8 hours of credit may be earned.

BED 650. Independent Study. (1.0 TO 12.0) For graduate students with excellent academic records. Studies in some phase of business education, marketing education, or related area. The project selected, methods, and credit hours must be approved by the department chairperson and supervising faculty member. A total of 12 hours of credit may be earned.

College of Fine Arts

DEPARTMENT OF ART

Dropped:

MINOR IN STUDIO ART, 24 hours

Revised:

MAJOR IN ART, BFA, 85 hours

Metals, 54 hours

ACR	211	Ceramics 1	3
	221	Intro Metals	3
	231	Glass 1	3
	322	Mtlsmth Dform	3
	323	Metal Castng	3
	324	Metal Color	3
	425	Metl Adv Fab	3
	426	Metl Adv Sur	3
	427	Metl New Tec	3
	428	Metal Sr Prj	3
AFA	221	Sculpture 1	3
	231	Intr Prtmakg	3
ART	301	Adv Comp Art (3-6)	3

Select two courses from two different areas

ACR	312	Ceram Thro 1 (3)	
	313	Ceram Hand 1 (3)	
	332	Glass 2 (3)	
	333	Glass 3 (3)	
AFA	322	Sculpture 2 (3)	
	323	Scpl Int Cas (3)	
	324	Scpl Wood (3)	6

9 hours from art studio electives 9

85 hrs

College of Sciences and Humanities

DEPARTMENT OF BIOLOGY

BIOLOGY (BIO)

Dropped:

BIO 518. Community and Ecosystem Ecology. (3.0)

New:

BIO 657. Multivariate Analysis of Environmental Data. (3.0) Introduction to multivariate statistical techniques and technological tools necessary to evaluate the literature and to carry out original research in the environmental sciences. Prerequisite: BIO 448 or 548 or the equivalent, or permission of the instructor.

Revised:

BIO 656 (518). Ecosystem Ecology. (3.0) Principles and application of ecosystem ecology. Provides students with an understanding of concepts in modern ecosystem ecology and with an in-depth analysis of ecosystem components, processes, and factors that control them. Prerequisite: BIO 216 or the equivalent, or permission of the instructor.

DEPARTMENT OF CHEMISTRY

CHEMISTRY (CHEM)

New:

CHEM 627. Analytical Chemistry in the Environmental Sciences. (3.0) Survey of the development and implementation of modern analytical methods, particularly as they apply to the study of environmentally relevant systems. Techniques include gas and liquid chromatography, mass spectrometry, UV-visible absorption and fluorescence spectroscopy, electrochemistry and elemental analysis techniques such as AAS and ICP. Prerequisite: permission of the department chairperson.

DEPARTMENT OF COMPUTER SCIENCE

New:

CERTIFICATE IN SYSTEMS, NETWORKS, AND SECURITY, 12-13 hours

<i>PREFIX</i>	<i>NO</i>	<i>SHORT TITLE</i>	<i>CR HRS</i>
CS	110	Intro C S (3)	
	or		
	116	Visual Prog (3)	
	or		
	120	Comp Sci 1 (4)	3-4
CS	203	Intro Secur	3
	233	Micro Sys	3
	300	LAN/WAN	3
			12-13 hrs

TRANSITION TO GRADUATE STUDIES IN COMPUTER SCIENCE CERTIFICATE, 24 hours

PREFIX	NO	SHORT TITLE	CR HRS
Required courses			
CS	222	Adv Program	3
	230	Org Arch	3
	324	Dsg Ana Algo	3
	335	Prog Lang	3
	376	Op Systems	3
	470	Thy Cmptn 1	3

Electives, 6 hours from

CS	310	Web Prog (3)	
	315	Game Prog (3)	
	327	Networks (3)	
	345	H C I (3)	
	347	Net Security (3)	
	430	System Prog (3)	
	436	Database Dsg (3)	
	438	Graphics (3)	
	455	Data Mining (3)	
	456	Image Proc (3)	
	457	Appl Cryptog (3)	
	499	Ind Study (3)	6
			6
			24 hrs

PRE-MASTERS OF COMPUTER SCIENCE CERTIFICATE

PREFIX	NO	SHORT TITLE	CR HRS
Required courses			
CS	524	Dsg Ana Algo	3
	535	Prog Lang	3
	570	Thy Cmptn 1	3
Electives, 9 hours from			
CS	527	Networks (3)	
	530	System Prog (3)	
	536	Database Dgn (3)	
	538	Graphics (3)	
	545	Hum-Comp Int (3)	
	547	Net Security (3)	
	555	Data Mining (3)	
	556	Image Proc (3)	
	576	Op Systems (3)	9
			9
			18 hrs

DEPARTMENT OF MATHEMATICAL SCIENCES

Revised:

MAJOR IN ACTUARIAL SCIENCE, 59-60 hours

PREFIX	NO	SHORT TITLE	CR HRS
MATHS	165	Calculus 1	4
	166	Calculus 2	4
	215	Discrete Sys	4
	217	Lin Algebra	4
	251	Intr Mth Fin	2
	259	Mth Software	3
	267	Calculus 3	4
	320	Probability	4
	321	Math Stat	4
	351	Math Finance	4
	452	Life Cont 1	4
	457	Act Model 1	4
	458	Act Model 2	3
	498	Senior Sem	2
RMI	270	Prin R M I	3

6-7 hours from

CS	120	Comp Sci 1 (4)	
RMI	371	Life/Health (3)	
MATHS	355	Top Act Sci (1-6)	
	428	Reg Time Ser (3)	
	453	Life Cont 2 (4)	
	454	Math Invest (3)	
	459	MFE (3)	
or as approved			6-7

59-60 hrs

Students may earn up to 6 credits for MATHS 355, but only 4 credits will apply toward the actuarial science major. The following additional courses are strongly recommended, as they satisfy the "Validation by Educational Experience" requirements of the actuarial societies: ACC 201, ECON 201, ECON 202, MATHS 428 or ECON 424, FIN 300 and one from MATHS 454 or FIN 310. Other electives from the graduate actuarial science, graduate statistics, business, and economics programs are encouraged. Students are encouraged to take CS 120 and PHYCS 120. PHYCS 120 satisfies the natural science requirement in the University Core Curriculum. This program leads to a bachelor of science degree only. All students will be required to complete a survey designated by the department in the semester in which they graduate.

MATHEMATICAL SCIENCES (MATHS)

New:

MATHS 496. Capstone Course for Mathematics Teaching Majors. (3.0) Accompanies the student teaching experience of mathematics teaching majors.

Prerequisite: MATHS 395. Parallel: EDSEC 460, 465.

12 hrs

Teachers College

DEPARTMENT OF COUNSELING PSYCHOLOGY AND GUIDANCE SERVICES

New:

CERTIFICATE IN IDENTITY AND LEADERSHIP DEVELOPMENT PROGRAM FOR COUNSELORS

Admission

To be admitted to the Certificate in Identity and Leadership Development Program for Counselors, students would need to:

- enroll in a counseling or closely related field or
- completed a school counseling or other student services degree and
- obtain graduate student status. Graduate student status includes transcripts documenting a completed baccalaureate degree and a cumulative undergraduate grade point average of at least 2.5 on a 4.0 point scale, or a 3.0 on a 4.0 point scale in the latter half of the baccalaureate to be enrolled. The courses for the certificate program would be under the Department of Counseling Psychology and Guidance Services.

PREFIX	NO	SHORT TITLE	CR HRS
CPSY	601	Lead in Coun	3
CSPY	614	Career Couns (3)	
		or	
EDAD	600	Intro Ed Led (3)	3
CPSY	678	Coun Cul Div (3)	
		or	
EDAD	630	Humn Resourc (3)	3
CPSY	609	Couns Ethics (3)	
		or	
EDAD	686	School Law (3)	3

Revised:

MASTER OF ARTS WITH DUAL MAJOR IN SOCIAL PSYCHOLOGY AND CLINICAL MENTAL HEALTH COUNSELING

Degree Requirements

PREFIX	NO	SHORT TITLE	CR HRS
CPSY	605	CMH Couns	3
	606	Pre-Practm	3
	607	Apprais Meth	3
	610	Career Theor	3
	621	Theo Tch Cou	3
	636	Psychopathol	3
	637	Psychopharm	3
	644	Practm Couns	3
	646	Advd Pract	3
	653	Res CPY Guid	3
	678	Coun Cul Div	3
	688	Group Technq	3
	695	Field Intrn (3-12)	6
EDPSY	603	Human Devel	3
	641	Statist Meth	3
			48 hrs

Five courses from

SOPSY	610	Social (3)	
	615	Social Cog (3)	
	620	Group Dynamc (3)	
	640	Attitudes (3)	
	655	Coun Applic (3)	
	660	Contemporary (3)	15

SOPSY 620 must be one of the five courses taken.

Recommended elective course

CPSY	624	Coun Pro Dev (3)	
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63-66 hrs

MASTER OF ARTS IN COUNSELING

PREFIX	NO	SHORT TITLE	CR HRS
School Track			
CPSY	600	Intro Sch Co	3
	606	Pre-Practm	3
	607	Apprais Meth	3
	610	Career Theor	3
	621	Theo Tch Cou	3

644	Practm Couns	3	
646	Advd Pract	3	
653	Res Cpy Guid	3	
685	Org Guid Pro	3	
688	Group Technq	3	
695	Field Intrn (3-12)	6	
One course from			
CPSY	614	Career Couns (3)	
	657	Obj Apprais (3)	3
One course from			
CPSY	631	Personality (3)	
	636	Psychopathol (3)	3
Counseling Psychology			
One course from			
CPSY	678	Coun Cul Div (3)	
EDMUL	660	Mlti Clt Eth (3)	
	670	Multrl Minor (3)	3
Educational Psychology			
EDPSY	603	Human Devel	3
Education courses			
One course from			
EDFON	631	Philosphy Ed (3)	
	641	Hist Amer Ed (3)	
	651	Ed Sociology (3)	
EDCUR	610	Elem Sch Cur (3)	
	620	Sec Sch Cur (3)	
	630	Jr H Mid Cur (3)	
EDEL	600	Bas Concep El (3)	
	626	Dis Clsrm Mt (3)	
EDSEC	534	Class Mgt (3)	
	695	Dyn Sec Clrm (3)	
EDJHM	512	Instrl Strat (3)	3
			<hr/>
			51 hrs

Candidates will be issued the school services standard license for counselor after they have completed the following state requirements:

- One of the following professional experiences: (1) a valid out-of-state school counseling license and one year of experience as a school counselor in another state, or (2) an internship in a school setting for one academic year.
- A master's degree in counseling or a related field and 30 semester hours in counseling and guidance at the graduate level.
- Completion of a supervised practicum in counseling with students at all levels.
- Recommendation by the accredited institution where the approved qualifying

program was completed.

The holder of the school services license is eligible to serve as a counselor at all grade levels.

Rehabilitation track

CPSY	603	Intro Rehab	3
	606	Pre-Practm	3
	607	Apprais Meth	3
	608	Psysoc Rehab	3
	610	Career Theor	3
	621	Theo Tch Cou	3
	635	Med Disabil	3
	636	Psychopathol	3
	644	Practm Couns	3
	653	Res CPY Guid	3
	678	Coun Cul Div	3
	688	Group Technq	3
	689	Case Mgt Reh	3
	695	Field Intrn (3-12)	6
EDPSY	603	Human Devel	3
			<hr/>
			48 hrs

DOCTOR OF PHILOSOPHY IN COUNSELING PSYCHOLOGY

The PhD in counseling psychology includes theoretical bases, an experiential component, a research component, and a variety of assistantship assignments. The program contains a core of psychology courses in the social, biological, cognitive, affective, and individual bases of behavior. Most students complete the degree in four to five years.

Degree Requirements

Comparable courses may be substituted for some of these courses upon approval of the student's doctoral committee.

<i>PREFIX</i>	<i>NO</i>	<i>SHORT TITLE</i>	<i>CR HRS</i>
Counseling Psychology			
CPSY	610	Career Theor	3
	636	Psychopathol	3
	678	Coun Cul Div	3
	688	Group Technq	3
	720	Adv Theories	3
	722	Theo Tch Sup	2
	740	Prac Co Supv	1
	746	Doc Prac 1	3
	747	Doc Prac 2	3
	749	Prac Suprv (1-6)	6
	753	Adv Research	3
	797	Doc Seminar	3

	799	Intrn Co Psy	0
One course from			
CPSY	652	Proj Apprais (3)	
	657	Obj Apprais (3)	3
Educational Psychology			
EDPSY	642	Interim Stat	3
	650	Indv Test WS	3
	746	Theory Meas	3
One course from			
EDPSY	741	Ap Regres An (3)	
	742	Statist Tech (3)	
	743	Factor Analy (3)	3
Psychological Science			
PSYSC	613	Developmentl	3
	691	Systems	3
One course from			
PSYSC	668	Physiological (3)	
EDPSY	652	Intro Neuro (3)	3
One course from			
PSYSC	615	Learn Motiva (3)	
	616	Percp Cognit (3)	
EDPSY	765	Theor Learng (3)	3
Social Psychology			
SOPSY	610	Social	3
One course from			
SOPSY	615	Social Cog (3)	
	620	Group Dynamc (3)	
	640	Attitudes (3)	
	655	Coun Applic (3)	
	660	Contemporary (3)	3
Dissertation			
DISS	799	Drs Dissert (1-24)	10
Research Requirement			
ID	705	Resrch Collq (1-3)	2
Cognate(s)			24-30
The cognate requirement consists of either one 24-hour cognate in psychology or two 15-hour cognates, at least one of which must be in psychology. Some of the above courses may be applied to the cognate(s), depending on which cognates are chosen.			

105-111 hrs

DEPARTMENT OF EDUCATIONAL PSYCHOLOGY

New:

CERTIFICATE IN HUMAN DEVELOPMENT AND LEARNING

<i>PREFIX</i>	<i>NO</i>	<i>SHORT TITLE</i>	<i>CR HRS</i>
EDPSY	600	Adv Ed Psy	3
	606	Lrn & Motiv	3
	627	Child Devel	3
	628	Adoles Devel	3
	629	Adult Devel	3
			15 hrs

Revised:

CERTIFICATE IN GIFTED AND TALENTED EDUCATION

Application Process

To be admitted to the Certificate Program in Gifted and Talented Education, students would need to be admitted to the graduate school.

Graduate student status includes transcripts documenting a completed baccalaureate degree and a cumulative undergraduate grade point average of at least 2.75 on a 4.0 scale or a 3.0 on a 4.0 scale in the latter half of the baccalaureate to be enrolled. The courses for the certificate program would be under the educational psychology department, but managed through the School of Extended Education.

As all states have different licensing requirements, this certificate may not meet the requirements in every state.

<i>PREFIX</i>	<i>NO</i>	<i>SHORT TITLE</i>	<i>CR HRS</i>
EDPSY	520	Int Gft/TInt	3
	621	Ident Eval	3
	625	Models/Strat	3
	611	Creativ Thkg (3)	
	or		
	623	Soc Emo Neds (3)	3
			12 hrs

DEPARTMENT OF EDUCATIONAL STUDIES

New:

DOCTORAL COGNATE IN CURRICULUM

This cognate will serve a variety of doctoral programs across campus. In consultation with their cognate advisers, students will select the appropriate 15 or 24 hours from the courses below.

PREFIX	NO	SHORT TITLE	CR HRS
EDCUR	601	Curr Devel (3)	
	610	Elem Sch Cur (3)	
	620	Sec Sch Cur (3)	
	630	Jr H Mid Cur (3)	
	640	Alt Sch Curr (3)	
	673	Curric Eval (3)	
	700	Sem Cur Dvlp (3)	
	725	Curric Theor (3)	
	798	Sem Cur Dvl (3-6)	

15 or 24 hrs

DOCTORAL COGNATE IN EDUCATIONAL TECHNOLOGY

This cognate will serve a variety of doctoral programs across campus. In consultation with their cognate advisers, students will select the appropriate 15 or 24 hours from the courses below.

PREFIX	NO	SHORT TITLE	CR HRS
EDTEC	585	School Infra (3)	
	650	Curric Tech (3)	
	652	Web Mltmedia (3)	
	655	Inquiry Simu (3)	
	660	Instr Design (3)	
	665	Vis Dig Lit (3)	
	670	Tec Pol Ped (3)	
	675	Distance Ed (3)	
	680	Advanc Media (3)	
	685	Assess Tech (3)	
	770	Ed Tec Eval (3)	

15 or 24 hrs

Revised:

MASTER OF ARTS IN SECONDARY EDUCATION

The Master of Arts in Secondary Education (MASE) extends the professional knowledge of teachers in six core areas: Curriculum, Educational Technology, Educational Research, Multicultural Education, Pedagogy, as well as the Social Foundations of Education. The program enables practicing teachers to explore theoretical concepts that relate directly to their instruction to improve instructional effectiveness. Students may pursue additional course work in the six core areas or elect courses through which they enhance their knowledge of content. Thirty credit hours of graduate courses are required to fulfill the degree requirements. It is possible to complete the Master of Arts in Secondary Education via distance education or online options.

Degree Requirements

PREFIX	NO	SHORT TITLE	CR HRS
Core requirements			
EDCUR	601	Curric Devel	3
EDTEC	650	Curric Tech	3
EDSTU	676	RsSch St Lrng	3

One course from each of the categories below

Pedagogy

EDJHM	512	Instrl Strat (3)	
	534	Class Mgt (3)	
EDSEC	695	Dyn Sec Clrm (3)	3

Foundations

EDFON	620	Foundations (3)	
	621	Educ Ethics (3)	
	631	Philosphy Ed (3)	
	641	Hist Amer Ed (3)	
	651	Ed Sociology (3)	3

Multicultural

EDMUL	660	Mlti Clt Eth (3)	
	670	Multrl Minor (3)	3

Curriculum

EDCUR	620	Sec Sch Cur (3)	
	630	Jr H Mid Cur (3)	
	640	Alt Sch Curr (3)	3

Choose one of the options below

Option 1

3 hours of additional course work from one of the above categories or from other graduate courses offered by the Department of Educational Studies 3

6 hours from
Minors and electives 6

30 hrs

Option 2

9 hours from additional course work from a content area (i.e., English, Mathematics, Reading, Social Studies, Gifted and Talented, Special Education, Science, etc.)

9

30 hrs

The minimum requirement for a minor is 8 hours. Students wishing to professionalize teaching licenses should contact the Educational License office.

DOCTOR OF EDUCATION IN ADULT, HIGHER, AND COMMUNITY EDUCATION

A doctoral program that prepares graduate students for professions in a variety of educational, governmental, community, business, and industrial settings. The adult/community education track emphasizes developing skills in management, planning, personnel and program development, teaching, and evaluation. The higher education track emphasizes developing skills in administration, organizational and policy development, teaching, curriculum, and social justice advocacy related to post-secondary institutions.

Admission

Applicants must meet the admission requirements of the Graduate School. An applicant must also have a master's degree from an accredited college or university, have earned a graduate grade point average (GPA) of at least 3.2 on a scale of 4.0 at the master's degree level, and have acceptable scores on the Graduate Record Examination (GRE). Applicants must speak and write standard English fluently, complete the application process for admission to the doctoral program, and demonstrate commitment to adult, higher, and community education.

General Requirements

A minimum of 91 semester hours of graduate credit beyond the bachelor's degree. At least 48 of the 91 hours, and at least half of required hours in the research requirement, the major, and the cognate must be completed at Ball State.

Degree Requirements

Students will earn 12 credits in the Core Courses, 21 credits in Research Courses, 24 credits in the Major Concentration (either Adult and Community

Education or Higher Education), and a single cognate of 24 credits or two cognates of 15 credits each. Completion of the dissertation earns 10 credits.

DEPARTMENT OF ELEMENTARY EDUCATION

New:

CERTIFICATE IN EARLY CHILDHOOD PROGRAM ADMINISTRATION

<i>PREFIX</i>	<i>NO</i>	<i>SHORT TITLE</i>	<i>CR HRS</i>
EDEL	630	Fam/Com Part	3
	640	Early Childh	3
	641	EC Prog Ldr	3
	644	Educ Div Soc	3
	651	Ed Prog YC	3
			15 hrs

CERTIFICATE IN ENHANCED TEACHING PRACTICE FOR ELEMENTARY TEACHERS

<i>PREFIX</i>	<i>NO</i>	<i>SHORT TITLE</i>	<i>CR HRS</i>
EDEL	626	Dis Clsrm Mt	3
	630	Fam/Com Part	3
	655	Prin of Diff	3
	660	Tech in Sch	3
EDRDG	610	El Sch Readg	3
			15 hrs

CERTIFICATE IN LITERACY INSTRUCTION

<i>PREFIX</i>	<i>NO</i>	<i>SHORT TITLE</i>	<i>CR HRS</i>
EDEL	680	Adv Meth Lan	3
EDRDG	610	El Sch Readg	3
	627	Lit Div Lnrs	3
	680	Cls Rdg Diag	3

Electives, 3 hours from

EDRDG	545	Tech in Rdg (3)	
	615	Erly Lit Dev (3)	
	620	Content Rdg (3)	
	645	Hist of Rdg (3)	
	650	Org Supv Rea (3)	3
			15 hrs

Ron Murphy, Associate Director
Office of Academic Systems