

# BALL STATE UNIVERSITY

## ACADEMIC POSTING

2011-2012

VOLUME XLIII – 1

August 19, 2011

This posting may contain all or part of the following: new, revised, and dropped programs, courses and prefixes. The posting period begins August 22, 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 April 4, 2011 is Fall Semester 2012. Graduate materials posted after April 4, 2011 have an implementation date of Fall Semester 2012.*

### University Core Curriculum

#### Revised:

##### Tier 3

AQUA 479 Aquatics Internship (12)

### College of Architecture and Planning

#### DEPARTMENT OF ARCHITECTURE

##### ARCHITECTURE (ARCH)

#### Revised:

##### 573 Directed Research in Historic Preservation.

Change the credit hours from: 3 to: 2

### Miller College of Business

#### DEPARTMENT OF FINANCE AND INSURANCE

#### Revised:

MAJOR IN RISK MANAGEMENT AND INSURANCE,  
63 hours

PREFIX	NO	SHORT TITLE	CR HRS
Miller College of Business core, 39 hours			
ACC	201	Principles of Accounting 1	3
	202	Principles of Accounting 2	3
BL	260	Principles of Business Law	3
ECON	201	Elementary Microeconomics	3
	202	Elementary Macroeconomics	3
	221	Business Statistics	3
FIN	300	Principles of Finance	3
ISOM	135	Business Information Systems	3
	249	Foundations of Business Comm	3
	351	Operations Management	3
MGT	300	Managing Behavior in Org	3
	491	Bus Policy and Strategy Mgt	3
MKG	300	Principles of Marketing	3
			<hr/>
			39 hrs
RMI	270	Principles of Risk Mgt & Ins	3
	330	Employee Benefits & Ret Plan	3
	371	Life & Health Insurance	3
	378	Commercial Risk Mgt & Ins	3
	474	Seminar in Risk Mgt & Ins	3
9 hours from			
ACC	401	Introduction to Taxation (3)	
BL	367	Principles of Estate Planning (3)	
FIN	301	Intermediate Finance (3)	
	310	Investments 1 (3)	
	320	Financial Markets 1 (3)	
	445	Financial Statement Analysis (3)	
MATH	259	Intro to Mathematics Software (3)	
	457	Actuarial Models 1 (4)	
	458	Actuarial Models 2 (3)	
MGT	341	Intro to Entrepreneurship (3)	
MKG	325	Professional Selling (3)	
RMI	330	Employee Benefits & Ret Plan (3)	
	369	Risk Mgt & Ins Internship (3-6)	
	377	Operations of Ins Enterprises (3)	
	401	Health Care Risk Management (3)	
	473	Insurance Law (3)	
	497	Independent Study in RMI (1-6)	9
			<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

MATH 111 or the equivalent; sophomore standing; demonstrated proficiency in computer skills. MATH 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.

## DEPARTMENT OF INFORMATION SYSTEMS AND OPERATIONS MANAGEMENT

### Revised:

**Change title from:** TEACHING MAJOR IN BUSINESS AND MARKETING EDUCATION, 54 hours **to:** TEACHING MAJOR IN BUSINESS EDUCATION, 54 hours

## College of Fine Arts

## DEPARTMENT OF ART

### Revised:

### MAJOR IN ART, BA, 49 hours

PREFIX	NO	SHORT TITLE	CR HRS
Art option, 49 hours			
ADS	101	Foundations 1	3
	102	Foundations 2	3
AFA	101	Drawing 1	3
	202	Drawing 2	3
AHS	101	History of Art Survey 1	3
	102	History of Art Survey 2	3
ART	100	Art Orientation	1
	200	Introduction to Computer Art	3

### 3 hours from

ACR	418	Ceramics: Senior Project (3)	
	428	Metals: Senior Project (3)	
	438	Glass: Senior Project (3)	
AFA	487	Senior Project in Drawing (3)	
	489	Senior Project in Painting (3)	
	491	Senior Project in Sculpture (3)	
	493	Senior Project in Printmaking (3)	
ART	480	Senior Project in Photography (3)	3

12 hours from single area of emphasis as approved by the department. Areas include: ceramics, drawing, glass, metals, painting, photography, printmaking, or sculpture.

12

6 hours from 200- and 300-level AHS courses

6

6 hours from art studio electives

6

49 hrs

Art history option, 49 hours

ADS	101	Foundations 1	3
	102	Foundations 2	3
AFA	101	Drawing 1	3
	202	Drawing 2	3
AHS	101	History of Art Survey 1	3
	102	History of Art Survey 2	3
	201	Art Criticism and Meaning	3
	450	Art Museum Theory and Practice	3
	480	Art History Senior Thesis	3
ART	100	Art Orientation	1

3 hours from

AHS	290	Contemporary Art (3)	
	301	Special Topics History of Art (3)	
CC	105	Intro to the Classical World (3)	
	304	The Ancient City (3)	3

3 hours from

AHS	241	Gothic Art (3)	
	251	High Renaissance in Italy (3)	
	252	Baroque and Rococo Art (3)	
	253	Neoclassicism and Romanticism (3)	
	301	Special Topics History of Art (3)	3

3 hours from

AHS	220	Art in the United States (3)	
	255	Impressionism Post-Impression (3)	
	261	Twentieth-Century Art (3)	
	263	Contemporary Art (3)	
	264	Film Analysis (3)	
	275	History of Photography (3)	
	301	Special Topics History of Art (3)	
	311	History Three-Dimension Design (3)	3

6 hours from 200- and 300-level AHS courses

6

6 hours from art studio electives

6

49 hrs

This program leads to a BA degree (see Academic Programs for degree outline).

## SCHOOL OF MUSIC

### MUSIC MEDIA PRODUCTION (MMP)

### Dropped:

**241 Computer Music 2. (3)**

**242 Computer Music 3. (3)**

**329 Compositional Practices in Electro-Acoustic Music. (2)**

**350 Electronic Composition. (2-4)**

**429 Music Perception. (3)**

**440 Advanced Topics in Computer Music. (3)**

**450 Advanced Electronic Composition. (2)**

**Revised:**

**235 Recording Technology 1. (3)** An introduction to the basics of recording technology. Topics include analog and digital recording systems, microphone design, microphone placement, and basic mixing techniques.

*Prerequisite:* MMP 125 or MUST 122; or permission of the instructor.

**MUSIC THEORY AND COMPOSITION  
(MUST)**

**New:**

**121 Introduction to Composition and Sonic Arts. (3)** An introductory course in musical creativity and computer music. Topics include musical gesture, musique concrete, composing with found instruments, computer applications for synthesis/processing, and MIDI. Creative projects and laboratory time mandatory.

**122 Acoustics for Musicians. (2)** An introduction to physical acoustics and psychoacoustics, with an emphasis on music and audio applications. Topics include the physical properties of sound, wave mechanics, acoustic measurements, physical properties of instruments, tuning and temperament, and perceptual properties of sound.

**444 Human-Computer Interface Design. (3)** Exploration of practices and techniques of human-computer interface design and implementation in musical, visual, and intermedia arts. Projects will focus on the development of human control systems for real-time artistic output. Studio laboratory time required.

**Revised:**

**221 Music Composition 1. (2)** Study of music composition. Development of basic craftsmanship through use of compositional exercises, notational study, and creation of short instrumental and vocal compositions.

*Prerequisite:* MUST 101, 111, or permission of the instructor.

**241 (MMP 241) Computer Music 1. (3)** Intermediate applications in computer music synthesis, processing, and programming focusing on expanding technical and creative control of computer music parameters, and extending knowledge of synthesis and audio processing techniques. Laboratory time is mandatory.

*Prerequisite:* C or better grade in MUST 122 or MMP 125, or permission of the instructor.

**341 (MMP 329) Creative Practices in Sonic Arts**

**Technology. (2)** Survey of the development of creative practices using electronic and digital devices. Topics include the study of electronic and digital instruments; the analysis of sonic art compositions, performances and interactivity; and the aesthetics of sonic art and experimental music.

*Prerequisite:* MUST 121 or permission of the instructor.

**342 (MMP 242) Computer Music 2. (3)** Continuation of MUST 241. Topics focus on computer programming for MIDI, audio, and video, resulting in creative projects involving student-developed virtual instruments, digital synthesis and processing. Creative projects and laboratory time are mandatory.

*Prerequisite:* MUST 241 or permission of the instructor.

**350 (MMP 350) Computer Composition 1. (2)** Composition using the computer for the generation and/or control of music. Presents compositional techniques involving computer processing of sound, virtual instruments, and computer control.

*Prerequisite:* MUST 212, 241, or permission of the instructor.

**411 Instrumentation and Orchestration. (2)** Instruments and their uses in orchestral practice. Develops creative writing concepts through orchestration. Principles of solo and combination writing are presented through analysis. Projects in solo and ensemble writing are required.

*Prerequisite:* MUST 202, 212.

**417 Theory of Twentieth-Century Music and Twenty-First Century Music. (3)** Vocabulary, devices, tonal organization, notation, and other elements that characterize the compositional practices of twentieth and twenty-first-centuries.

*Prerequisite:* MUST 311 or permission of the instructor.

**443 (MMP 440) Advanced Topics in Computer Music. (3)** An advanced seminar in computer music. Topics vary, focusing on advanced topics of computer music synthesis, composition, interactivity, and software design. Projects may involve research, creative output, or software development.

*Prerequisite:* MUST 342 or permission of the instructor.

**445 (MMP 429) Music Perception. (3)** An advanced seminar in psychoacoustics and psychophysics. Topics may include the ear as a frequency analyzer, the auditory pathway, auditory perception, and special problems in the perception of music and musical structures.

*Prerequisite:* MUST 241 or permission of the instructor.

**450 (MMP 450) Computer Music Composition 2. (2)** Advanced composition using computer means. A continuation of MUST 350.

*Prerequisite:* MUST 350 or permission of the instructor.

A total of 98 hours of credit may be earned, but no more than 2 in any one semester or term.

# College of Sciences and Humanities

18 hours from ANTH or other electives approved by graduate/thesis committee

18

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38 hrs

## DEPARTMENT OF ANTHROPOLOGY

### Revised:

#### MASTER OF ARTS IN ANTHROPOLOGY

##### Degree requirements

The minimum requirement for the MA in anthropology is 38 hours of graduate credit. Although students are encouraged to take general courses, they may focus on cultural and biological anthropology or archaeology. In keeping with the principle that students should have a broad knowledge of anthropology, core courses covering those three major subdisciplines are required; this requirement can be waived only by the graduate committee. In order for students to acquire an understanding of anthropology as a profession and a background in anthropological thought, ANTH 600 Graduate Studies Seminar and a course emphasizing method and/or theory are also required. A required 6-hour thesis permits students to specialize and acquire skills in research methods and techniques. A public thesis defense presentation is also required. Beyond these requirements, each student's plan of study will be tailored to individual needs. The completed thesis document would be subject to approval by the committee following a public oral defense.

PREFIX	NO	SHORT TITLE	CR HRS
<i>Thesis option</i>			
ANTH	600	Graduate Studies Seminar (1)	2
	601	Scope of Cultural Anthropology	3
	603	Scope of Archaeology	3
	605	Scope of Bio Anth	3
THES	698	Thesis (1-6)	6

3 hours from Method and/or theory approved by graduate committee 3

12 hours from ANTH or other electives approved by graduate advisor 12

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32 hrs

##### *Non-thesis option*

ANTH	600	Graduate Studies Seminar (1)	2
	601	Scope of Cultural Anthropology	3
	603	Scope of Archaeology	3
	605	Scope of Bio Anth	3
	696	Intern in Anth (3-6)	6

3 hours from Method and/or theory approved by graduate committee 3

## DEPARTMENT OF ENGLISH

### INTENSIVE ENGLISH INSTITUTE (IEI)

#### New:

**116 Listening Fundamentals. (1.5-99)** Emphasizes basic listening skills in English. Practice recognizing basic consonant and vowel sounds and words, building up to recognizing and understanding full sentences and brief conversations.

*Prerequisite:* permission of the program director.

**126 Listening 1. (1.5-99)** Emphasizes acquisition of listening strategies in English. Practice understanding general meaning, distinguishing common reductions in speech and hearing, and pronouncing the distinctive consonant sounds of English.

*Prerequisite:* IEI 115 or permission of the program director.

**136 Listening 2. (1.5-99)** Emphasizes intermediate listening skills in English. Practice understanding fast speech reductions in conversations and lectures and recognizing and producing the distinctive vowel sounds of English.

*Prerequisite:* IEI 125 or permission of the program director.

**146 Listening 3. (1.5-99)** Emphasizes intermediate listening skills in academic English contexts. Practice understanding speech reduction in academic contexts, the overall structure of discourse (in particular, lectures and their components), note taking, and patterns of English stress and intonation.

*Prerequisite:* IEI 135 or permission of the program director.

**156 Listening 4. (1.5-99)** Emphasizes advanced listening skills in academic English contexts. Students will practice expanding their ability to comprehend fast speech reduction in academic contexts, recognizing main ideas in academic lectures, and advanced note-taking skills.

*Prerequisite:* IEI 145 or permission of the program director.

**162 Writing 5. (1.5-99)** Emphasizes advanced-level conventions of academic writing in graduate courses. Practice developing writing skills for research.

*Prerequisite:* IEI 141 or permission of the program director.

*Open only to graduate students.*

**163 Writing 5. (1.5-99)** Emphasizes advanced-level conventions of academic writing in graduate courses. Practice developing writing skills for research.

*Prerequisite:* IEI 141 or permission of the program director.

*Open only to graduate students.*

**164 Writing 5. (1.5-99)** Emphasizes advanced-level conventions of academic writing in graduate courses. Practice developing writing skills for research.

*Prerequisite:* IEI 141 or permission of the program director.

*Open only to graduate students.*

**165 Writing 5. (1.5-99)** Emphasizes advanced-level conventions of academic writing in graduate courses. Practice developing writing skills for research.

*Prerequisite:* IEI 141 or permission of the program director.

*Open only to graduate students.*

**166 Writing 5. (1.5-99)** Emphasizes advanced-level conventions of academic writing in graduate courses. Practice developing writing skills for research.

*Prerequisite:* IEI 141 or permission of the program director.

*Open only to graduate students.*

**171 Writing 5. (1.5-99)** Emphasizes advanced-level conventions of academic writing in graduate courses. Practice developing writing skills for research.

*Prerequisite:* IEI 141 or permission of the program director.

*Open only to graduate students.*

**Revised:**

**Change credit hours low to 1.5 for the following courses:**

111, 112, 113, 114, 115, 121, 122, 123, 124, 125, 131, 132, 133, 134, 135, 141, 142, 143, 144, 145, 151, 152, 153, 154, 155, 161

**DEPARTMENT OF MATHEMATICAL SCIENCES**

**Revised:**

**TEACHING MAJOR IN MATHEMATICS, 47-48 hours**

PREFIX	NO	SHORT TITLE	CR HRS
MATH	165	Calculus 1	4
	166	Calculus 2	4
	215	Discrete Systems	4
	217	Linear Algebra	4
	221	Probability and Statistics	3
	250	Advanced Pre-College Math	3
	496	Capstone Math Teaching	3

Complete one option

*Option 1: Middle school, 22 hours*

MATH	201	Num Alg Prob Elem Teach	4
	202	Data Geo Meas Elem Teach	3
	310	Algebra Elem Mid Scl Teach	3
	316	Num Thry Elem Mid Scl Teach	3
	360	Geometry Elem Mid Scl Teach	3

At least 6 hours from (as approved by advisor)

MATH	251	Intro to Mathematics of Financ (2)	
	267	Calculus 3 (4)	
	311	Algebraic Structures (3)	
	335	Mathematical Models (3)	
	345	Survey of Geometries (4)	
	416	Theory of Numbers (3)	
	460	History of Mathematics (3)	6
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			47 hrs

*Option 2: Secondary school, 23 hours*

MATH	267	Calculus 3	4
	311	Algebraic Structures	3
	335	Mathematical Models	3
	345	Survey of Geometries	4
	460	History of Mathematics	3

At least 6 hours from (as approved by advisor)

MATH	251	Intro to Mathematics of Financ (2)	
	259	Intro to Mathematical Software (3)	
	320	Probability (4)	
	362	Numerical Analysis 1 (3)	
	374	Differential Equations (3)	
	377	Complex Analysis (3)	
	411	Abstract Algebra 1 (3)	
	415	Coding and Communication (3)	
	416	Theory of Numbers (3)	
	441	Geometry and Topology (3)	
	445	Differential Geometry (3)	
	456	Intro Operations Research (3)	
	471	Real Analysis 1 (3)	
	473	Boundary Value Problems (3)	
	475	Topics Partial Dif Equations (3)	
	497	Student Faculty Colloquium (1-6)	6
			<hr/>
			48 hrs

Students are encouraged to take CS 120 and PHYC 120. CS 120 has a WISER+T designation and PHYC 120 satisfies the TIER 1 natural science requirement in the University Core Curriculum. All students will be required to take a comprehensive exam designated by the department.

**MATHEMATICAL SCIENCES (MATH)**

**New:**

**101 Foundations in Mathematical Reasoning for Elementary Teachers. (3)** Development of mathematical reasoning and communication skills through problem solving in context involving numbers, proportional reasoning, algebra, and geometry.

*Recommended background:* three years of college preparatory mathematics or the equivalent.

## Revised:

**112 Precalculus-Trigonometry. (3)** Trigonometric functions, identities, and equations; graphs of the trigonometric and inverse trigonometric functions; solutions of right and general triangles; polar coordinates; and complex numbers.

*Prerequisite:* qualifying SAT/ACT score, or appropriate score on the mathematics placement test, or MATH 108 or 111, or permission of the department chairperson.

*Not open to* students who have credit in MATH 132 or higher except by permission of the department chairperson.

**628 Computational Methods in Statistics. (4)** Theory and application of simulation techniques used in statistics. The use of statistical software such as SAS and R in statistical analysis.

*Prerequisite:* MATH 620 or permission of the department chairperson.

## DEPARTMENT OF MODERN LANGUAGES AND CLASSICS

### JAPANESE (JAPA)

#### New:

**404 Seminar in Language. (3)** Designed to develop communication skills at a level high enough to function in academic, business, and industry. Stress on developing advanced grammar, speaking and listening skills, and communicational strategies in various contexts.

*Prerequisite:* JAPA 301 or its equivalent.

**405 Seminar in Japanese-English Translation. (3)** Training students in skills in translating Japanese and English, and vice versa, to prepare them for a career in which such skills are required, such as the business world or foreign relations.

*Prerequisite:* JAPA 301 or its equivalent.

## DEPARTMENT OF PHILOSOPHY AND RELIGIOUS STUDIES

### PHILOSOPHY (PHIL)

#### Revised:

**306 Contemporary Philosophy. (3)** A critical examination of leading philosophers or movements since 1900. May emphasize contemporary (e.g. feminist, phenomenological) methodologies.

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

## DEPARTMENT OF PHYSIOLOGY AND HEALTH SCIENCE

### HEALTH SCIENCE (HSC)

## New:

**279 Peer Health Education. (1)** This is a one-credit course designed to train students as Peer Health Educators (PHEs). Students present health promotion programs to campus groups such as residence halls, student organizations, academic classes, fraternities, and sororities. PHEs also man awareness events, complete assignments and self evaluations of their performance, and attend special events as representatives of Health Education. May not be repeated.

## DEPARTMENT OF PSYCHOLOGICAL SCIENCE

### PSYCHOLOGICAL SCIENCE (PSYS)

#### Dropped:

**415 Comparative Psychology. (3)**

**435 Survey of Clinical Psychology. (3)**

**438 Community Mental Health. (3)**

**474 Organization Development. (3)**

#### New:

**385 Professional Ethics. (1)** Introduces selected ethical issues in psychological research and practice. Offered only online through Extended Education. Offered credit/no credit only.

*Prerequisite:* PSYS 284, 295; a minimum of 6 additional hours in psychology.

*Open only to* juniors and seniors.

**478 Teaching Assistantship. (3-6)** Under the supervision of the instructor of a course, students will carry out course-related duties assigned by the instructor. A concurrent seminar will aid them in integrating such experiences with the pedagogy of the teaching of psychology and with knowledge of the content of the course to which they are assigned.

*Prerequisite:* PSYS 100; a grade of at least B+ in the course in which the student is assisting; permission of the instructor.

*Open only to* juniors and seniors.

#### Revised:

**295 Career Planning in Psychology. (1)** Helps develop an awareness of psychology courses, minors, internships, research assistantships, and other opportunities; learn about career options and graduate school selection processes; and explore personal strengths and weaknesses with regard to long term goals.

*Prerequisite:* PSYS 100; sophomore standing; permission of the department chairperson.

**301 Health Psychology. (3)** Examines how psychological conditions influence disease prevention, medical treatment, stress and coping, and psychosocial adjustment to illness.

*Prerequisite:* PSYS 100.

**367 Introduction to Neuroscience. (3)** A biological systems approach to cognition and behavior. Emphasizes biological aspects of the central nervous system leading to neuropsychological processes in the brain.

*Prerequisite:* PSYS 100.

*Not open to* students who have credit in PSYS 468.

**416 Cognitive Psychology. (3)** Survey of theories and research about human thought and memory. Topics include attention, memory, problem solving, and language.

*Prerequisite:* PSYS 100; junior or senior standing.

**447 Tests and Measures in Psychological Science. (4)**

Theoretical and practical foundations underlying the construction, use, and interpretation of standardized psychological tests and inventories. Laboratory includes development of a psychological measure.

*Prerequisite:* PSYS 284.

**468 Cognitive Neuroscience. (3)** Focuses on the biological systems involved in higher thought processes, particularly examining the connections between brain and behavior through reading and discussion of current articles in the field. Emphasis is given to the connection between brain and mind.

*Prerequisite:* PSYS 284.

*Prerequisite recommended:* PSYS 367.

*Open only to* juniors and seniors.

**471 Psychology in the Legal System. (3)** An investigation of the scientific literature associated with psychology in the legal system and forensic psychology.

*Prerequisite:* PSYS 100.

*Open only to* juniors and seniors.

**491 History of Psychology. (3)** Major concepts of various schools of psychological thought and contemporary theoretical systems as they have evolved historically.

*Prerequisite:* PSYS 100; junior and senior standing.

## DEPARTMENT OF SOCIOLOGY

### SOCIOLOGY (SOC)

#### Revised:

**422 Analysis of Social Inequality and Social Trends. (3)** Quantitative analysis of social inequality and social trends in contemporary society.

*Prerequisite:* SOC 100, 382 or equivalent, plus 3 SOC hours, or permission of the instructor.

**522 Analysis of Social Inequality and Social Trends. (3)** Quantitative analysis of social inequality and social trends in contemporary society.

*Prerequisite:* SOC 382 or equivalent.

*Not open to* students who have credit in SOC 422.

## Teachers College

### DEPARTMENT OF ELEMENTARY EDUCATION

#### EDUCATION: READING (EDRD)

#### Revised:

**427 Teaching Reading to Diverse Learners. (3)** Addresses issues of reading instruction for children with diverse backgrounds, including language, race, class, gender, ethnicity, and exceptionality. Must earn a grade of *C* or better to pass the course.

*Prerequisite:* EDEL 244; EDRD 430; admission to the teacher education program; permission of the department chairperson; may be repeated only once.

*Parallel:* EDRD 450.

**450 Reading Strategies and Practicum. (6)** Provides prospective classroom teachers (K-12) with opportunities to study and try various approaches and strategies in teaching reading. Offers experience in grouping students of varying reading abilities and in planning and implementing a classroom reading program appropriate for these students. Must earn a grade of *C* or better to pass the course.

*Prerequisite:* EDEL 244; EDRD 430; admission to the teacher education program; permission of the department chairperson; may be repeated only once.

*Parallel:* EDRD 427.

Ron Murphy, Associate Director  
Office of Academic Systems