

BALL STATE UNIVERSITY

ACADEMIC POSTING

2011-2012

VOLUME XLIII – 5

February 10, 2012

This posting may contain all or part of the following: new, revised, and dropped programs, courses and prefixes. The posting period begins February 13, 2012. 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.*

Interdepartmental Programs

AFRICAN-AMERICAN STUDIES

Dropped:

MINOR IN AFRICAN-AMERICAN STUDIES, 18 hours

AFRICAN STUDIES

Dropped:

MINOR IN AFRICAN STUDIES, 17-18 hours

LATIN-AMERICAN STUDIES

Dropped:

MINOR IN LATIN-AMERICAN STUDIES, 15 hours

College of Applied Sciences and Technology

DEPARTMENT OF FAMILY AND CONSUMER SCIENCES

Revised:

MAJOR IN FAMILY AND CONSUMER SCIENCES, 64-90 hours

Option: Family studies, 67 hours

CPSY	470	Cross-Cult Counseling	3
EDPS	351	Adolescent Psychology	3
	355	Adult Psychology	3
FCFC	100	Intro Family Child Studies	1
	250	Family Relations	3
	265	Infant/Toddler Develop Educ	3
	275	Child Development	3
	340	Life Workplace Management	3
	380	Parenting	3
	393	Present Practice Tech Fam Educ	3
	425	Grant Writing Research Methods	3
	475	Marriage	3
	484	Family Stressors and Crises	3
	485	Family Policy	3
FCFN	240	Nutrition for Educators (3)	
		or	
	275	Personal Nutrition (3)	3
FCFS	369	Family Studies (3-6)	6
HSC	261	Health, Sex, & Family Life (3)	
		or	
PSYS	277	Psychology of Sexual Behavior (3)	3
	100	Intro to Psychological Science	3
SOC	100	Principles of Sociology	3
SOCW	100	Introduction to Social Work	3
	230	Human Behav and Social Envr 1	3
	330	Human Behav and Social Envr 2	3

76 hrs

Completion of this program fulfills the academic requirements for a Certified Family Life Educator (CFLE).

Option: Residential property management, 63-66, hours

ACC	201	Principles of Accounting 1	3
ECON	116	Survey of Economic Ideas (3)	
		or	
	201	Elementary Microeconomics (3)	3
FCFN	310	Customer Service	3
FCPM	104	Housing Decisions	3
	123	Interior Design Basics	3
	235	Intro to RPM	3
	275	Market Leasing Resident Prop	3
	305	Maintenance for Prop Mgr	3
	315	Sr Housing: Design, Mkg, & Mgt	3
	330	Apt Financial Management	3
	350	Residential Equip, Energy Tech	3
	369	Residential Property Mgt	3-6

	375	Simulation in RPM	3
	405	Mgt of Gov Assisted Housing	3
	425	RPM Project	3
	435	Trends Issues in RPM	3
TDPT	154	Graphic Comm for Interior Dsn	3
	213	Const Mat Proc Prod Int Des	3
MGT	300	Managing Behavior in Org	3
MKG	300	Principles of Marketing	3
RE	230	Real Estate Principles	3

72-75 hrs

Students pursuing the residential property management option must meet the following additional requirements:

- Grade of C or better in FCPM 275, 369, and 425.
- Sit for the National Apartment Leasing Professional (NALP) and Certified Apartment Manager (CAM) exams.

MINOR IN RESIDENTIAL PROPERTY MANAGEMENT, 21 hours

PREFIX	NO	SHORT TITLE	CR HRS
FCPM	104	Housing Decisions	3
	235	Intro to RPM	3
	275	Market Leasing Resident Prop	3
	305	Maintenance for Prop Mgr	3

6 hours from

FCFN	310	Customer Service (3)	
FCPM	123	Interior Design Basics (3)	
	315	Sr Housing: Design, Mkg, & Mgt (3)	
	350	Residential Equip, Energy Tech (3)	
	405	Mgt of Gov Assisted Housing (3)	6

3 hours from

ACC	201	Principles of Accounting 1 (3)	
ECON	116	Survey of Economic Ideas (3)	
	or		
	201	Elementary Microeconomics (3)	
TDPT	213	Const Mat Proc Prod Int Des (3)	
MGT	300	Managing Behavior in Org (3)	
MKG	300	Principles of Marketing (3)	
RE	230	Real Estate Principles (3)	3

21 hrs

Students pursuing the Minor in Residential Property Management must meet the following additional requirements:

- Grade of C or better in FCPM 275.
- Sit for the National Apartment Leasing Professional (NALP) exam.

FAMILY AND CONSUMER SCIENCES: CHILD DEVELOPMENT (FCCD)

Revised:

369 (FCS 369) Internship in Family and Consumer Sciences (1-6) 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: FCFC 465.

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: CHILD DEVELOPMENT (FCCD)

Correction:

Replace: FCCD 369 Internship in Family and Consumer Sciences (1-6)

With: FCCD 369 Internship in Family and Consumer Sciences (1-6)

Drop: FCCD prefix completely.

FAMILY AND CONSUMER SCIENCES: PROPERTY MANAGEMENT (FCPM)

Revised:

369 (FCS 369) Internship in Residential and Property Management (1-6) 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: FCPM 275, 305; FCFN 310; ACC 201; 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.

DEPARTMENT OF MILITARY SCIENCE

Revised:

MINOR IN MILITARY SCIENCE, 21 hours

PREFIX	NO	SHORT TITLE	CR HRS
MIL	101	Intro to Military Science	1
	102	Introduction to Leadership	1
	201	Leadership/Military Tactics	2
	202	Leadership/Team Development	2
	301	Mil Leadership & Opers 1	3
	302	Mil Leadership & Opers 2	3
	401	Leadership Chall/Goal-Setting	3
	402	Leadership Chall/Goal-Setting	3

3 hours from

Approved HIST electives 3

21 hrs

Additional credit hours may be earned in MIL 299X and 499 (either requires permission of the department chairperson). This minor is open only to those seeking a commission as an officer in the United States Army, Army Reserve, or Army National Guard.

SCHOOL OF NURSING

NURSING (NUR)

New:

608 Pathophysiology and Pharmacology for Clinical Practice (3) Focuses on advanced knowledge of pathophysiology and pharmacology for application in clinical practice, and on teaching pathophysiology and pharmacology related to the nursing care of patients with health alterations across the lifespan.

Open only to masters nursing students.

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, 604, 605, 607.

Open only to masters nursing students.

SCHOOL OF PHYSICAL EDUCATION, SPORT, AND EXERCISE SCIENCE

Dropped:

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

Drop the following option: Adapted Physical Education

MINOR IN PHYSICAL ACTIVITY FOR THE OLDER ADULT, 29 hours

Revised:

EXERCISE SCIENCE MAJOR IN PHYSICAL EDUCATION, 59-72 hours

Option 1: Exercise science, 56-57 hours

Admission and retention standards

- No grade lower than *C* will be accepted for any required non-University Core Curriculum course.
- Candidates for the advanced program must fill out an application with the program coordinator when they are enrolled in the last course(s) of the beginning program section (BIO 111, CHEM 101 or CHEM 111, PSYS 100, PEP 250, EXSC 147, 190, 201, 292, 293, 294.) See the program coordinator for more information. The criterion for acceptance into the advanced program is a grade-point average of 2.75 or higher in the beginning program section. Students should not take any advanced program section courses until they have received approval.
- To qualify for the internship (EXSC 479), students must have taken all the listed courses, maintained a grade-point

average of 2.75 or higher in the advanced program section, and complete a 90-hour noncredit practicum requirement. An overall grade-point average of 2.5 or higher also is required before enrolling in the internship. If students do not meet the grade-point average requirements, they may appeal to the program coordinator for a waiver of this requirement.

PREFIX	NO	SHORT TITLE	CR HRS
BIO	111	Principles of Biology 1	4
CHEM	101	Gen, Org, Biochem/Hlth Sci (5)	
	111	General Chemistry 1 (4)	4-5
EXSC	147	Weight Training	1
	190	Foundation of Exercise Science	3
	201	Physical Fitness Assessment	3
	293	Found Physiology and Exercise	3
	294	Anatomical Kinesiology	3
	301	Fund of Exercise Prescription	3
	320	Resistance Training	3
	402	Advanced Fitness Assessment	3
	479	Exercise Science Internship	12
	493	Advanced Exercise Physiology	3
	292	Anatomy (3)	
	or		
ANAT	201	Fundamentals of Human Anatomy (3)	3
FCFN	340	Prin of Human Nutrition	3
PEP	250	First Aid	2
PSYS	100	Intro to Psychological Science	3

15 hours from one of the following 2 tracks

Basic and Applied Science Track

BIO	112	Principles of Biology 2 (4)	
	215	Cell Biology (4)	
CHEM	112	General Chemistry 2 (4)	
	231	Organic Chemistry 1 (4)	
	232	Organic Chemistry 2 (4)	
	360	Essentials of Biochemistry (4)	
EXSC	401	Prin of Electrocardiogram (3)	
	414	Biomechanics of Human Movement (4)	
FCFN	444	Nutr Weight Control Exercise (3)	
PHYC	110	General Physics 1 (4)	
	112	General Physics 2 (4)	
PSYS	241	Statistics (3)	
	367	Intro to Biopsychology (3)	15

Health and Fitness Track

EXSC	148	Group Fitness Instructor	1
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14 hours from

AT	340	Prevention and Care of Injury (4)	
BUSA	302	Career Management (3)	
EXSC	329	Assessment for Ind with Dis (3)	
	360	Exercise Psychology (3)	
	401	Prin of Electrocardiogram (3)	
FCFN	444	Nutr Weight Control Exercise (3)	
ISOM	251	Introductory Operations Mgt (3)	
MGT	200	Management Principles (3)	
	261	Personnel and Supervision (3)	
	271	Intro Organizational Behavior (3)	
	300	Managing Behavior in Org (3)	
	305	Job Search and Transition (1)	

MKG	200	Fundamentals of Marketing (3)	14
			71-72 hrs

**PHYSICAL EDUCATION:
PROFESSIONAL (PEP)**

Correction:

611 Practicum in Sport and Exercise Psychology (3)

Add the following statement:

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

SPORT ADMINISTRATION (SPTA)

Revised:

479 Sport Administration Internship (12) A supervised work and learning experience in the application of sport management knowledge and skills. Internships are to be completed with organizations within the sport industry approved by the program coordinator including professional, collegiate, interscholastic, and amateur organizations.

Prerequisite: permission of the coordinator; senior standing (90 credit hours).

Open only to sport administration majors.

DEPARTMENT OF TECHNOLOGY

Revised:

MAJOR IN INDUSTRIAL TECHNOLOGY, 76-95 hours

The computer technology program transforms students into technology leaders in a sustainable global economy. This is achieved by presenting students with a strong foundation in the concepts, theories, and practices that serve as the basis for the varying aspects of information technology. This includes the design, implementation, and administration of secured systems and networks. Students then have the opportunity to develop expertise in specialty areas of interest through electives in higher level technology courses.

Since the purpose of information technology is to facilitate the goals and objectives of a business or organization, students are required to complete the Minor in Business Administration. With an understanding of how organizations operate, students will be able to more effectively design systems and networks that will support the needs of the business or organization.

PREFIX NO SHORT TITLE CR HRS

Complete one option:

Computer technology option, 76 hours

Core requirement, 43 hours

CS	116	Visual Programming	3
	120	Computer Science 1	4

TCMP	111	Computer Assembly Trblshooting	3
	210	Internetwork Fundamentals	3
	211	System Admin Fundamentals	3
	310	Internetwork Design Admin	3
	311	Infrastructure Services	3
	465	Information Security	3
	466	Capstone Computer Technology	3
TDPT	380	Internship in Technology	3
	390	Training and Devel in Industry	3
TMFG	270	Industrial Electronics	3
	371	Microprocessor Machine Interfa	3
MATH	132	Brief Calculus	3

15 hours from

TCMP	221	Alt Desktop Operating Systems (3)	
	321	Alt Server Operating Systems (3)	
	330	Internetwork Switching (3)	
	340	Wireless Networks (3)	
	380	Electronic Communication Admin (3)	
	400	Sustainability in Info Tech (3)	
	410	Scalable Internetworking (3)	
	421	Data Storage Disaster Recovery (3)	
	430	Convergent Networks (3)	
	440	Directory Services (3)	
	450	Ent Infrastructure Design (3)	15

Business administration minor, 18 hours

ISOM	125	Micro Apps for Business	3
	251	Introductory Operations Mgt	3
MGT	200	Management Principles (3)	
		or	
	300	Managing Behavior in Org (3)	3
MKG	300	Principles of Marketing (3)	
		or	
ISOM	300	Project Management (3)	3

6 hours from

ACC	201	Principles of Accounting 1 (3)	
ISOM	135	Business Information Systems (3)	
	226	Business Systems App Dev (3)	
	311	Info & Enter Sys: Analys/Des (3)	
MGT	261	Personnel and Supervision (3)	
	341	Intro to Entrepreneurship (3)	
MKG	310	Consumer Behavior (3)	
	320	Advertising Management (3)	
	325	Professional Selling (3)	
	460	Strategic Supply Chain Mgt (3)	6

18 hrs

76 hrs

DEPARTMENT OF ARCHITECTURE

Revised:

MINOR IN HISTORIC PRESERVATION, 18 hours

Completed application and an interview with the program director and/or program faculty are required.

PREFIX	NO	SHORT TITLE	CR HRS
ARCH	428	Hist of N Amer Arch	3
	440	Intro to Hist Pres	3
	442	Historic Preserv Res Meth Doc	3
	444	Historic Preservation Econ	3
	447	Hist Pres Tech 1	3
3 hours from			
ARCH	441	Hist Pres Law/Planning (3)	
	445	Hist Pres Design Graphic Doc (3)	
	449	Hist Pres Tech 2 (3)	
	473	HP Colloquium (3)	3

18 hrs

Prerequisite for ARCH 428 is waived.

ARCHITECTURE (ARCH)

Revised:

669 Historic Preservation Internship (0) A 10-week period of approved employment with a national, state, or local organization engaged in professional preservation work, or participation in an approved preservation activity, typically undertaken during the summer. Offered credit/no credit only.

Prerequisite: graduate status in the College of Architecture and Planning or permission of the program director.

DEPARTMENT OF LANDSCAPE ARCHITECTURE

LANDSCAPE ARCHITECTURE (LA)

Dropped:

LA 635 Landscape Architecture Methods (3)

Revised:

LA 650 (635) Landscape Architecture Methods (3)
Theories and methods related to landscape planning, preservation, and design.

Open only to MLA majors.

Miller College of Business

DEPARTMENT OF ACCOUNTING

ACCOUNTING (ACC)

Revised:

301 Intermediate Accounting 1 (3) The theoretical

framework for accounting principles and procedures, the application of generally accepted accounting principles, and the preparation of financial statements.

Prerequisite: admission to the Miller College of Business; ACC 202.

305 Accounting Information Systems (3) A study of the role of accounting information systems and related subsystems. The relationship of accounting information systems to other systems, including management information systems, is addressed.

Prerequisite: admission to the Miller College of Business; ACC 202.

306 Intermediate Management Accounting (3)

Measurement and management tools and techniques, emphasizing managerial uses of financial and operational data.

Prerequisite: admission to the Miller College of Business; ACC 202.

430 Government and Nonprofit Accounting (3)

Underlying concepts and standards of financial reporting for government and nonprofit entities are introduced. Emphasizes financial reporting differences between these entities and business enterprises.

Prerequisite: ACC 301.

DEPARTMENT OF INFORMATION SYSTEMS AND OPERATIONS MANAGEMENT

BUSINESS EDUCATION (BED)

Revised:

387 Teaching Business in Middle and Secondary School (3) Curriculum, objectives, planning, and methods for teaching business courses in middle and secondary schools. Emphasis on curriculum development, lesson and unit planning, classroom management, evaluation, instructional materials, and teaching strategies.

Prerequisite: ACC 201; ECON 201; EDPS 251; ISOM 125.

Parallel: EDSE 380; EDJH 385.

College of Communication, Information, and Media

INTERDEPARTMENTAL

COLLEGE OF COMMUNICATION, INFORMATION, AND MEDIA (CCIM)

New:

210 Professional Development (1) Provides opportunities and skills needed to secure internships and jobs in communication- and media-related professions.

Not open to students who have credit in JOUR 169.

Open only to College of Communication, Information, and Media majors.

280 Social Media (3) Combines the examination of social technologies through historical frameworks with the application of modern, emerging information dissemination strategies. Students will learn how to evaluate, deploy, and apply these technologies.

Open only to College of Communication, Information, and Media majors.

DEPARTMENT OF JOURNALISM

JOURNALISM (JOUR)

Dropped:

516 World Press Systems (3)

518 Science and Technical Writing (3)

612 Journalism Writing Seminar (3)

630 Business Reporting (3)

New:

496 Creative Project: Graphics (1) Execution of a creative project that has a significant visual communication purpose. Projects may take the form of an annual report or creative advertising campaign, for example, and must have both print, online, and mobile components. The student must pitch his or her idea to one faculty member with sufficient design/graphics knowledge to advise his or her creative project.

Prerequisite: JOUR 345.

Open only to advertising and public relations majors.

603 Introduction to Visual Reporting (3) Focus on data visualization and information graphics reporting for print and online media. Students will gain experience in reporting and developing interactive charts, diagrams, and maps. Students will also explore how large data sets are used to tell complex stories and explore how data visualization has evolved across a number of disciplines. Students will also examine the evolution of visual storytelling and its role in contemporary society via theoretical and applied scholarly research.

643 Emerging Technologies (3) A collaborative interdisciplinary effort to research, design, develop, and study interactive content for emerging technologies. A project-oriented effort, this course may address interface design from a variety of perspectives, from desktop and television platforms to mobile phones and tablets. Interface design will be explored through human computer interaction and

contextual design. Students will be exposed to scholarly research and conduct usability studies and fieldwork assignments.

655 Social and Cross-Media Storytelling (3) Students examine the history of media software and storytelling, and apply that knowledge through the development of an edited and curated crowd-sourced story. Students will focus on building a complex narrative, presented across multiple media platforms.

Revised:

103 Introduction to Visual Communication and Web Development (3) Introduces students to the theories and concepts behind visual communication with the application and understanding of desktop publishing and the various ways that media practitioners use visuals. Students will apply these same theories and concepts in developing visual materials for the World Wide Web.

Prerequisite: JOUR 101 with a grade of C or better.

Open only to journalism or telecommunications majors.

345 Visual Reporting (3) Examination of the facets of informational graphics and the job of the modern-day graphics reporter. Experience gained in creating and researching explanatory charts, diagrams, maps, and graphics editing.

Prerequisite: NEWS 221, 234 or JOUR 103, NEWS 234.

369 Paid Internship (0-3) Practical, supervised, on-the-job experience in a media-related industry or organizational setting. Offered credit/no credit only.

Prerequisite: JOUR 169; permission of the department chairperson.

A total of 3 hours of credit may be earned.

Open only to students in a journalism department program and students in the telecommunications news track.

405 Public Relations Planning, Management, and Case Reviews (3) Strategic planning principles for campaigns and program implementation, including use of communication, public opinion, change, and management theory; crisis planning and communication; issue management; integrated marketing communication; and case study reviews.

Prerequisite: JOUR 265, 368 with a grade of C or better.

Open only to advertising or public relations majors.

460 International Advertising and Public Relations (3) A survey of international advertising and public relations practices, both domestic and abroad. Introduces students to the ideas and theories of international advertising and public relations, with special emphasis on branding and strategic communication across multiple cultures.

Prerequisite: JOUR 265, 368 with a grade of C or better.

Open only to advertising or public relations majors.

465 Public Relations Campaigns (3) In this immersive team experience, public relations majors apply research and

problem-solving techniques to actual public relations clients using all of the methodologies learned previously. Emphasizes developing positive teamwork skills and portfolio and professional development including personal presentation skills.

Prerequisite: JOUR 265, 368 with a grade of C or better.
Open only to advertising or public relations majors.

479 Unpaid Internship (0-3) Practical, supervised, on-the-job experience in a media-related industry or organizational setting. Offered credit/no credit only.

Prerequisite: JOUR 169; permission of the department chairperson.

A total of 3 hours of credit may be earned.

Open only to students in a journalism department program and students in the telecommunications news track.

611 Digital Media Bootcamp (3) An introduction to the theory and principles of journalistic and nonfiction storytelling. Students will learn to apply these fundamental techniques through the use of video, audio, and design software. Students will develop a basic level of understanding of newsgathering, journalistic storytelling and style, and emerging technologies

615 Reporting and Research Methods (3) Introduction of in-depth reporting and research methods, with emphasis on both traditional scholarly approaches (quantitative and qualitative) as well as the application of social scientific techniques to the journalistic production of news (collection, analysis, and visualization of data).

NEWS (NEWS)

Dropped:

210 Professional Development (1)

371 Audience Interactivity (1)

Revised:

234 Multimedia: Graphics (3) Survey of page design, type, and color theories, graphics reporting, Web design, and multimedia storytelling. Introduces the concepts of journalistic visual editing, journalistic graphics technology, and the history of visual journalism.

Prerequisite: NEWS 120, 121, 122, 131, 132, 133; JOUR 103.

Open only to students pursuing a program of study in the journalism department.

397 Immersion: Special Topics (3-9) Participation in a project-based immersive experience designed to enhance racial, socio-economic, gender, or cultural awareness. Extensive preparation and presentation of a significant multimedia project.

Prerequisite: NEWS 221, 233 or 234 or 235 with a grade

of C or better; junior standing; permission of the department chairperson.

A total of 9 hours of credit may be earned.

Open only to journalism or telecommunications majors.

DEPARTMENT OF TELECOMMUNICATIONS

NEWS (NEWS)

Dropped:

210 Professional Development (1)

371 Audience Interactivity (1)

Revised:

234 Multimedia: Graphics (3) Survey of page design, type, and color theories, graphics reporting, Web design, and multimedia storytelling. Introduces the concepts of journalistic visual editing, journalistic graphics technology, and the history of visual journalism.

Prerequisite: NEWS 120, 121, 122, 131, 132, 133; JOUR 103.

Open only to students pursuing a program of study in the journalism department.

397 Immersion: Special Topics (3-9) Participation in a project-based immersive experience designed to enhance racial, socio-economic, gender, or cultural awareness. Extensive preparation and presentation of a significant multimedia project.

Prerequisite: NEWS 221, 233 or 234 or 235 with a grade of C or better; junior standing; permission of the department chairperson.

A total of 9 hours of credit may be earned.

Open only to journalism or telecommunications majors.

TELECOMMUNICATIONS (TCOM)

Dropped:

530 Audio Production (3)

634 Interactive Storytelling (3)

New:

631 Digital Production (3) Techniques of acquisition and manipulation of digitized audio and video content. Software and hardware are utilized to capture, edit, and finish creative productions. Proficiency required in digital audio and video technologies.

Prerequisite: permission of the program coordinator.

633 Digital Audio Production (3) Basic skills and techniques

required for digital audio production designed for broadcast, cinema, and/or digital delivery. Includes all stages of the production process, including studio and field recording, surround sound, and post-production.

Prerequisite: permission of the program coordinator.

College of Fine Arts

DEPARTMENT OF ART

ART: CRAFTS (ACR)

New:

233 Kiln Sculpted Glass (3) Introduction to glass work constructed and manipulated in the kiln. Studio practices will include fusing and slumping, sand casting, relief, and lost wax.

Prerequisite: ADS 102; AFA 202.

Open only to art majors.

331 Glass: Special Topics (3) Investigation of a specific topic in glass (neon, pate de verre, torchworking, complex casting, electroplating). Topic to be announced.

Prerequisite: ACR 231 or 233.

A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.

Open only to art majors.

369 Craft Internship (1-3) Five to ten weeks of supervised summer work-related experience within or outside the university community.

Prerequisite: portfolio review by area faculty, junior standing; permission of the department chairperson.

A total of 3 hours of credit may be earned.

Open only to art majors.

Revised:

231 Introduction to Glass (3) Introduction to studio glass, history and practice. Emphasis on beginning techniques of blown glass, fused glass, and cold working processes.

Prerequisite: ADS 102; AFA 202.

Open only to art majors.

332 Intermediate Glass Blowing (3) Intermediate techniques of blown glass and cold glass fabrication, and introduction to studio equipment maintenance.

Prerequisite: ACR 231.

Open only to art majors.

333 Intermediate Glass Casting (3) Intermediate glass casting and kiln forming.

Prerequisite: ACR 233.

Open only to art majors.

334 Glass: Cold Working (3) Advanced cold working techniques. Focuses on glass surface manipulation, cutting, polishing, and laminating.

Prerequisite: ACR 231 or 233.

Open only to art majors.

335 Glass: Advanced Studio (3) Advanced investigation of glass with an emphasis on individual style augmented by research and defining a personal studio practice.

Prerequisite: ACR 332, 333, or 334.

Open only to art majors.

436 Glass: Advanced Problems (3) Advanced investigation of glass with an emphasis on individual style augmented by research and defining a personal studio practice.

Prerequisite: ACR 332, 333, or 334.

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

Open only to art majors.

437 Professional Practices in Glass (3) Focuses on portfolio preparation, job opportunities, residencies, galleries, contracts, and commissions.

Prerequisite: ACR 332, 333, or 334.

Open only to art majors.

ART: DESIGN (ADS)

Dropped:

104 Color Theory and Design (3)

ART: EDUCATION (AED)

New:

303 Visual Education Methods (3) A teaching methods class for education majors and other majors using visual images for instructional purposes. Includes content, sequencing, and assessment.

Prerequisite: ADS 102; AFA 202; AHS 102 for art majors; ENG 104 for other majors.

Open only to art majors or by permission of the instructor.

Revised:

304 Art Curriculum and Instruction (3) Curriculum content, planning, teaching strategies, assessment in art education by developing a thematically based unit of art education lessons.

Prerequisite: ADS 102; AFA 202; AHS 101, 102; C or better grade in AED 201; admission to the Teachers College.

Open only to art majors.

305 Art Teaching and Learning Practicum (3) Direct experience in planning, implementing, and evaluating art education teaching strategies with elementary-age students, including classroom management, budgets, and media decisions. Developed from a self-created unit. Laboratory

teaching time is arranged.

Prerequisite: C or better grade in AED 304.

Open only to art majors.

ART: FINE ARTS (AFA)

Dropped:

318 Advanced Watercolor (3)

319 Watermedia (3)

New:

301 Drawing: Point of View (3) Introduces a variety of compositional formats and strategies based in observational practice. Examines historical and contemporary conceptions of space and considers point of view as both a physical and conceptual construct. Explores representational, abstract, and non-objective modes of drawing.

Prerequisite: ADS 102; AFA 202.

Open only to art majors.

302 Drawing: Narrative and Metaphor (3) Focuses on drawings that use narrative and metaphor as points of departure. Emphasis on invention, use of visual and non-visual source material, and synthesis of refined drawing skills. Explores representational, abstract, and non-objective modes of drawing.

Prerequisite: ADS 102; AFA 202.

Open only to art majors.

305 Drawing from Nature (3) Drawing explored through visual responses to the environment and natural subject matter. Includes field trips and site specific sketching and journaling.

Prerequisite: ADS 102; AFA 202.

Open only to art majors.

316 Special Topics in Painting (3) Investigation of a particular topic, problem, or issue in painting. Topic to be announced.

Prerequisite: AFA 211, 217.

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

Open only to art majors.

417 Independent Directions in Painting (3) Self-directed studio production and research in painting. Development of a series of paintings that explore a personal direction.

Prerequisite: 18 credit hours in painting.

Open only to art majors.

Revised:

202 Figure Drawing (3) Life drawing. Intensive study of the human figure. Descriptive, expressive, and interpretive methods of imaging the figure are explored, and a variety of

materials and techniques are introduced.

Prerequisite: AFA 101.

Parallel: ADS 102.

Open only to art majors.

303 Intermediate Figure Drawing (3) Explores a variety of concepts and materials as they relate to the complexities and dynamics of the human form. Expands upon the ability to observe and communicate through descriptive, expressive and interpretive methods. Focuses on both historical and contemporary figure drawing.

Prerequisite: ADS 102; AFA 202.

Open only to art majors.

304 Experimental Figure Drawing (3) Explores the human figure as a catalyst for subject matter using a broad range of materials, surfaces, and processes. Focuses on drawing the human figure from observation and imagination. Includes process oriented and expressive styles.

Prerequisite: ADS 102; AFA 202.

Open only to art majors.

312 Figure Painting (3) Exploration of descriptive, expressive, and interpretive methods of painting the figure using a variety of contemporary and historical techniques and approaches.

Prerequisite: AFA 211.

Open only to art majors.

313 Painting: Concepts and Contexts (3) Includes studio exercises, readings, and critiques. Explores painting problems in relation to conceptual and theoretical issues in the history of painting.

Prerequisite: AFA 211.

Open only to art majors.

314 Painting: Materials and Strategies (3) Introduces mixing paint from raw materials, emphasizing acrylic mediums. Exploration of technical, formal, and pictorial problems with emphasis on individual solutions.

Prerequisite: AFA 211.

Open only to art majors.

315 Narrative Painting (3) Explores narrative strategies in painting using contemporary and historical approaches. Focus on representational to expressive methods of figurative story-based painting.

Prerequisite: AFA 211.

Open only to art majors.

405 Advanced Topics in Drawing (3) Advanced investigation of drawing with an emphasis on individual exploration and conceptual development. Focuses on diverse approaches to drawing, thematic development, and research.

Prerequisite: 6 hours from AFA 301 or 302 or 303 or 304.

Open only to art majors.

406 Independent Directions in Drawing (3) Self-directed studio production and research in drawing. Development of a series of drawings that explore a personal direction.

Prerequisite: AFA 405.

Open only to art majors.

416 Painting: Advanced Studio Practice (3)

Individualized advanced-level problems in painting, continuing the emphasis on personal conceptual goals.

Prerequisite: 18 credit hours in painting.

Open only to art majors.

ART (ART)

New:

211 Traditional Animation (3) Introduces classic animation principles, experimentation, observation, professional practices, and project refinement.

Prerequisite: ADS 102; AFA 202.

Open only to animation majors.

212 Drawing for Animation (3) Introduces volume and 2-axis perceptions facilitated by timeline creation and playback. Focuses on life drawing, animation, and body mechanics.

Prerequisite: ART 211.

Open only to animation majors.

315 Character Design (3) Focuses on visual character development from descriptions, scripts, reference, or biographies. Includes research, observation, experimentation, and construction.

Prerequisite: ART 212.

Parallel: ART 312.

Open only to animation majors.

316 Storyboarding (3) Explores large-scale narrative, entertainment, and explanation as a way to eliminate interior ideas, and logistics problems in storyboarding.

Prerequisite: ART 315.

Parallel: ART 313.

Open only to animation majors.

411 Pre-Production (3) Introduces a variety of artistic development solutions to facilitate large-scale project creation. Focuses on problem solving, research, organization, digital printing, and workflow.

Prerequisite: ART 316.

Parallel: ART 414.

Open only to animation majors.

Revised:

311 Animation 1 (3) Introduction to techniques and aesthetics of three-dimensional computer animation. Topics will include modeling, animation, surfaces, lighting, and rendering.

Prerequisite: ADS 102; AFA 202; ART 200.

Parallel: ART 212.

Open only to animation majors.

312 Animation 2 (3) Expands upon three-dimensional computer animation concepts and techniques while developing narrative and experimental structures. Continued exploration of modeling, lighting, surfaces, dynamics, particle animation, compositing, and character animation.

Prerequisite: ART 311.

Parallel: ART 315.

Open only to animation majors.

313 Animation 3 (3) Advanced investigation in three-dimensional computer animation. Exploration of topics such as inverse kinematics, expressions, character animation, compositing, motion capture, batch processing, and distributed rendering. Storytelling and experimental approaches will be further developed.

Prerequisite: ART 312.

Parallel: ART 316.

Open only to animation majors.

321 Video and Intermedia Art 1 (3) Comprehensive introduction to experimental video and its impact on contemporary new media art practices, surveying new media video art and artists in a range of formats including installation and performance. Technical demonstrations and workshops will cover camera, sound, lighting, pre-production, and digital editing techniques.

Prerequisite: ADS 102; AFA 202; ART 200.

Open only to art majors.

322 Intermedia Art 2 (3) Expands upon concepts, aesthetics, and techniques of video and time-based electronic art. Topics include digital video, interactive media, sound, installation and experimental time-based genres. Work and readings by electronic and intermedia artists will be screened and discussed.

Prerequisite: ART 321.

Open only to art majors.

323 Special Topics in Intermedia Art (3) Emphasizes the exploration of specialized topics within video and intermedia art. Continues the development of new techniques and concepts.

Prerequisite: ART 322.

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

Open only to art majors.

331 Studio Photography (3) Emphasizes the creative potential of medium and large format photography as well as introducing artistic manipulation of lighting equipment in the studio and on location. Professional applications will also be addressed.

Prerequisite: ART 232.

Open only to art majors.

332 Special Topics in Photography (3) Investigation of a particular topic, problem, or issues in photography (alternative

processes, performance, installation, mural printing, etc.). Specific content will be announced before offering. A particular topic can only be taken once.

Prerequisite: ART 331.

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

Open only to art majors.

414 Animation 4 (3) Design and production of a collaborative or independent animation project. Projects can be produced independently or in collaboration with an interdisciplinary group of artists, animators, or composers. A pre-production package will be developed and approved by the instructor. Festival and exhibition opportunities will be explored.

Prerequisite: ART 313.

Parallel: ART 413.

Open only to animation majors.

424 Directions in Intermedia Art (3) The development of a body of work refining approaches to video and intermedia art. Projects can be collaborative and interdisciplinary or independently produced. All work will be produced in consultation with the instructor. External exhibition opportunities will be explored.

Prerequisite: ART 323.

Open only to art majors.

211	Music Theory	2
212	Music Theory	2
311	Mus Thry: Form & Analy	2
312	MusTh: 18th-Cent Counterpoint	2

2-6 hours from

MUSP	325	Secondary Study (Piano) (1)	
		or	
	326	Group Piano (1)	2-6

7 hours from

MUSC	350	Large Vocal Ensemble (1)	
	351	Large Vocal Ensemble (.5)	
MUSP	438	Small Ensemble (Vocal) (1)	7

6-10 hours from

DANC	110	Intro to Ballet 1 (1)	
	111	Intro to Ballet 2 (1)	
	120	Intro to Modern 1 (1)	
	121	Intro to Modern 2 (1)	
	130	Intro to Jazz 1 (1-3)	
	131	Intro to Jazz 2 (1)	
	232	Tap 1 (1)	
MUHI	438	Opera History: 1780 to 1980 (2)	
MUSP	348	Opera Workshop (1)	
MUST	410	Choral Arranging (2)	
THEA	232	Acting 1 (3)	6-10

94 hrs

A minimum of four university-level semesters of language study (at least two each in French and German) must be completed at the appropriate level to satisfy the requirements of the BM degree in voice. Placement tests are available at the Department of Modern Languages and Classics. 4 credits of SP 101 or LAT 101 may be substituted for 4 credits of FR 102 or GER 102.

SCHOOL OF MUSIC

Revised:

MAJOR IN MUSIC PERFORMANCE: VOICE, BM, 94 hours

PREFIX	NO	SHORT TITLE	CR HRS
25 hours from			
MUSP	200	Major Study (1-4)	25
FR	101	Beginning French 1	4
	102	Beginning French 2	4
GER	101	Beginning German 1	4
	102	Beginning German 2	4
MUHI	200	Survey of Music Literature	2
	330	Music History	3
	331	Music History	3
MUSC	499	Recital	1
MUSP	290	Introduction to Conducting	2
	348	Opera Workshop (1)	2
	397	Junior Recital	1
	398	Diction for Singers	2
	429	Vocal Pedagogy	2
	440	Vocal Diction and Literature	2
	498	Senior Recital	2
MUST	101	Sight Singing and Ear Training	1
	102	Sight Singing and Ear Training	1
	111	Music Theory	2
	112	Music Theory	2
	201	Sight Singing and Ear Training	1
	202	Sight Singing and Ear Training	1

MUSIC HISTORY AND MUSICOLOGY (MUHI)

Dropped:

439 Jazz History 1 (2)

440 Jazz History 2 (2)

New:

441 Jazz History (2) The evolution of jazz from its origins in the late 19th century to the present. Works from the standard repertory will be examined in detail, focusing on the stylistic innovations and contributions of selected groups and individuals.

Prerequisite: MUHI 200.

Open only to music majors and minors.

541 Jazz History (3) The evolution of jazz from its origins in the late 19th century to the present. Works from the standard repertory will be examined in detail, focusing on the stylistic innovations and contributions of selected groups and

individuals.

Not open to students who have credit in MUHI 441.

Open only to music majors.

Revised:

139 Perspectives of Jazz (3) A survey of the origins and development of jazz from the late 19th century to the present.

Open only to students not majoring in music.

200 Survey of Music Literature (2) Survey of styles, forms, and masterworks of music emphasizing the period 1700 to 1975. Required for majors and minors. A C or better is required to continue in the music history sequence.

Prerequisite: MUST 112.

DEPARTMENT OF THEATRE AND DANCE

Revised:

MAJOR IN THEATRE, BA/BS, 58-64 hours

Design technology option, 32 hours

Directed electives, 20 hours

THEA	123	Color Studies	3
	223	Costuming	3
	320	Design Skills	2
	321	Costume Rendering	3
	326	Stage Lighting	3
	420	Scene Design	3
	423	Costume Design	3

Electives, 12 hours

COMM	330	Small Group Decision Making (3)
THEA	224	Costume Forms and Materials (3)
	225	Theatrical Drafting (3)
	229	Stage Makeup (2)
	291	Stage Management (3)
	299X	Experimental Topics (3)
	318	Advanced Topics (3)
	350	Directing 2 (3)
	380	Advanced Practicum (1-9)
	421	Stage Properties (3)
	426	Advanced Lighting Design (3)
	434	Immersion Experience (1-12)

Up to one other THEA or DANC course not listed above as approved by PDA or chairperson.

12

64 hrs

Design and technology option students must present a portfolio at the end of each spring semester and must pass an exit portfolio review at the end of the senior year to complete the option. Students failing to pass a portfolio review at the end of one academic year are considered on probationary status for the option; those failing to pass a portfolio review at the end of the succeeding year will be dropped from the option. The department recommends that the design and

technology option students pursue a minor in art history through the Department of Art.

Theatrical studies option, 26 hours

Directed electives, 12 hours

DANC	130	Intro to Jazz 1 (1-3)	1
THEA	223	Costuming	3
	233	Acting 2	3
	318	Advanced Topics	3
	320	Design Skills	2

Electives, 14 hours

ENG	410	Adv Screenwriting (3)
	464	Shakespeare (3)
TCOM	434	Video Production Workshop (3)
THEA	229	Stage Makeup (2)
	291	Stage Management (3)
	318	Advanced Topics (3)
	326	Stage Lighting (3)
	340	Playwriting 1 (3)
	350	Directing 2 (3)
	380	Advanced Practicum (1-9)
	420	Scene Design (3)
	423	Costume Design (3)
	426	Advanced Lighting Design (3)
	434	Immersion Experience (1-12)
	450	Directing 3 (3)
	491	Theatre Management (3)
	496	Directed Study (1-9)

Up to three other THEA or DANC courses not listed above as approved by PDA or chairperson. Exception: THEA 318 may be taken up to four times total, but each must be on a different topic. Students are expected to take THEA 220 to meet the prerequisite for THEA 320.

14

58 hrs

The theatrical studies option is recommended for students wanting a broad-based, liberal-arts education in theatre. Some students may also pursue graduate study at the MA and PhD level. Students must earn and keep a 3.0 or better grade-point average for all courses required on the major after earning 36 credit hours or they will be placed on academic probation for one semester. If a student has two consecutive semesters on academic probation, they will be dismissed from the theatrical studies option. Students must also submit a Theatrical Studies Writing Portfolio in the fall of their sophomore, junior, and senior years. Failure to submit a portfolio will result in the student being placed on option probation. Failure to submit two portfolios in a row will result in removal from the option. Students may audition or submit portfolio reviews for other options within the department.

College of Sciences and Humanities

DEPARTMENT OF CHEMISTRY CHEMISTRY (CHEM)

New:

410 Review of Chemistry Fundamentals (1) A senior course which reviews fundamental chemistry concepts in the areas of physical, organic, inorganic, analytical, and biochemistry, and develops critical thinking skills.

Prerequisite: CHEM 225, 344 or permission of the department chairperson.

Open only to chemistry majors or chemistry teaching majors.

510 Review of Chemistry Fundamentals (1) Introductory graduate course which reviews fundamental chemistry concepts in the areas of physical, organic, inorganic, analytical, and biochemistry, and develops critical thinking skills.

Open only to chemistry graduate students.

DEPARTMENT OF COMPUTER SCIENCE

Revised:

MINOR IN COMPUTER SCIENCE, 17 hours

PREFIX NO SHORT TITLE CR HRS

Complete at least 17 hours from the following

CS	120	Computer Science 1 (4)	
	121	Computer Science 2 (4)	
	124	Discrete Structures (3)	
	222	Advanced Programming (3)	
	230	Computer Org and Arch (3)	
	239	Social and Professional Issues (1)	
	310	Web Programming (3)	
	315	Game Programming (3)	
	327	Dist Proc and Networks (3)	
	345	Human-Computer Interfaces (3)	
	436	Database Design (3)	
	438	Computer Graphics (3)	
	455	Data Mining (3)	
	456	Image Processing (3)	

17 hrs

At least 9 credit hours must be BSU courses. Minor GPA must be 2.0 or better.

MINOR IN COMPUTER SECURITY, 18-19 hours

PREFIX NO SHORT TITLE CR HRS

CS	110	Intro to Computer Science (3)	
	or		
	120	Computer Science 1 (4)	3-4
	200	Computers and Society	3
	203	Intro to Computer Security	3
	249	Forensics	3
	300	Local and Wide Area Networks	3

446 System Administration 3

18-19 hrs

Minor in Computer Security is not open to students with a Major in Computer Science or a Minor in Digital Forensics.

CERTIFICATE IN COMPUTER APPLICATIONS, 15-16 hours

PREFIX NO SHORT TITLE CR HRS

CS	104	Introduction to Computers	3
CS	110	Intro to Computer Science (3)	
	or		
	120	Computer Science 1 (4)	3-4
	233	Micro Sys Arch	3
	236	Computer Database Techniques	3
	276	Sur of Comp Op Sys	3

15-16 hrs

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

PREFIX NO SHORT TITLE CR HRS

CS	110	Intro to Computer Science (3)	
	or		
	120	Computer Science 1 (4)	3-4
	203	Intro to Computer Security	3
	233	Micro Sys Arch	3
	300	Local and Wide Area Networks	3

12-13 hrs

CERTIFICATE IN TRANSITION TO GRADUATE STUDIES IN COMPUTER SCIENCE, 24-32 hours

PREFIX NO SHORT TITLE CR HRS

Unless waived, up to 8 hours from			
CS	120	Computer Science 1 (4)	
	121	Computer Science 2 (4)	8

Required courses

CS	222	Advanced Programming	3
	230	Computer Org and Arch	3
	324	Des/Analy of Algorithms	3
	335	Programming Languages	3
	376	Operating Systems	3
	470	Theory of Computation 1	3

Electives, 6 hours from

CS	310	Web Programming (3)	
	315	Game Programming (3)	
	327	Dis Proc and Networks (3)	
	345	Human-Computer Interfaces (3)	
	347	Network Security (3)	
	430	Systems Programming (3)	
	436	Database Design (3)	

438	Computer Graphics (3)	
455	Data Mining (3)	
456	Image Processing (3)	
499	Independent Study (3)	6
		—————
		24-32 hrs

CERTIFICATE IN WEB APPLICATIONS, 13 hours

PREFIX	NO	SHORT TITLE	CR HRS
CS	110	Intro to Computer Science	3
	120	Computer Science 1	4
	236	Computer Database Techniques	3
	299X	Exp/Devl Topics (3-6)	3
			—————
			13 hrs

C or better grades required in each course.

COMPUTER SCIENCE (CS)

Revised:

104 Introduction to Computers (3) Introduction to the microcomputer as a word processing, spreadsheet, database, and communications tool. Intended for those in other disciplines. Hardware and software trends, opportunities, and responsibilities in computing are discussed. Lecture and laboratory.

Not open to students who have credit in ISOM 125.

Open only to BGS students, speech pathology majors, and students in associate degree programs for either radiation technology or respiratory therapy.

110 Introduction to Computer Science (3) A broad survey of computer science including its history, local and Internet applications, programming languages, and computer architecture. Internet examples will be used throughout. Includes use and writing of programs. A first exploration of the study of computing.

Prerequisite: students should have sufficient facility with high school mathematics to solve simple linear equations and to appreciate the use of mathematical notation and formalism.

DEPARTMENT OF GEOGRAPHY

Revised:

MAJOR IN GEOGRAPHY, 51-71 hours

Option 2: Travel and tourism, 42 hours

GEOG	121	Geog of Cultural Environment	3
	261	Tourism Systems	3
	262	Tourism Regions	3
	369	Professional Experience (3-6)	
		or	
	479	Practical Experience (3-6)	3
	491	Tourism Development	3

		12 hours from	
	FCFN	250	Lodging Management (3)
		or	
		363	Institutional Administration (3)
		or	
		476	Event Management (3)
	GEOG	360	Tours and Meetings Management (3)
		460	Travel and Tourism Consulting (3)
	MGT	200	Management Principles (3)
		or	
	MKG	200	Fundamentals of Marketing (3)
	NREM	371	Outdoor Recreation and Socy (3)
		or	
		392	Environmental Interpretation (3)
			12

		6 hours from	
	GEOG	350	Geog United States & Canada (3)
		351	Latin American and Caribbean (3)
		353	Geography of Indiana (3)
		354	Geography of Asia (3)
		356	Geog Russia and Its Neighbors (3)
		357	Geography of Europe (3)
		480	Distant Areas Field Studies (3)
			6

		9 hours from	
	GEOG	120	Economic Geog of Globalization (3)
		230	Elementary Meteorology (3)
		320	Ethnic Geographies (3)
		321	Urban Geography (3)
		323	Tourism & Geography of Food (3)
		331	Global Climatology (3)
		334	Atmospheric Hazards (3)
		340	Cartograp Visual Spatial Data (3)
		423	Population Geography (3)
		470	Political Geography (3)
		480	Distant Areas Field Studies (3)
			9
			—————
			57 hrs

Recommended minors for option 2 include journalism, public relations, modern languages and classics, food management, hospitality management, natural resources and environmental management, and any business or area studies.

GEOGRAPHY (GEOG)

Dropped:

352 Geography of Africa (3)

Revised:

470 Political Geography (3) Problems and issues surrounding the geographic distribution of political actions and outcomes in the context of globalization. Topics include war and peace, access to natural resources, nationalism, democratization, terrorism, and the politics of identity.

570 Political Geography (3) Problems and issues surrounding the geographic distribution of political actions and outcomes in the context of globalization. Topics include war and peace,

access to natural resources, nationalism, democratization, terrorism, and the politics of identity.

DEPARTMENT OF GEOLOGICAL SCIENCES

GEOLOGY (GEOL)

New:

462 Environmental Geology in the Field and Laboratory (3) Provides development of research projects and instruction in field and laboratory techniques used in the collection and analysis of field samples. The techniques are applied to the study of local environment research projects and may include instruction on well probes and standard "wet" chemical techniques.

Prerequisite: GEOL 207, 360 or 560.

562 Environmental Geology in the Field and Laboratory (3) Provides development of research projects and instruction in field and laboratory techniques used in the collection and analysis of field samples. The techniques are applied to the study of local environment research projects and may include instruction on well probes and standard "wet" chemical techniques.

Prerequisite: GEOL 207, 360 or 560.

Not open to students who have credit in GEOL 462.

DEPARTMENT OF HISTORY

HISTORY (HIST)

Revised:

150 The West in the World (3) A survey of the development of Western Civilization since its origins emphasizing problems, turning points, and recurring themes, especially since circa 1500. Focuses also on the way global interactions helped shape Western Civilization.

202 American History, 1877 to the Present (3) Survey of the political, diplomatic, economic, cultural, social, racial, ethnic, and gender issues and key related events that have affected the history of the United States since 1877.

SOCIAL STUDIES (SS)

New:

460 Student Teaching in History and the Social Sciences (3) Provides an opportunity for student teachers in history and the social sciences to integrate the knowledge, skills, and dispositions developed in their prior content coursework, coursework in history/social science education, and other coursework in the professional education sequence.

Prerequisite: admission to student teaching.

Parallel: EDSE 460, 465.

Open only to social studies teaching majors.

DEPARTMENT OF MATHEMATICAL SCIENCES

Revised:

MAJOR IN MATHEMATICAL SCIENCES, 54-58 hours

PREFIX	NO	SHORT TITLE	CR HRS
MATH	165	Calculus 1	4
	166	Calculus 2	4
	215	Discrete Systems	4
	217	Linear Algebra	4
	259	Intro to Mathematical Software	3
	267	Calculus 3	4
	320	Probability	4
	374	Differential Equations	3
	411	Abstract Algebra 1	3
	471	Real Analysis 1	4
	498	Senior Seminar	2

Complete one option

Option 1: Mathematics, 15 hours

MATH	412	Abstract Algebra 2	3
	472	Real Analysis 2	3

9 hours from

MATH	377	Complex Analysis (3)	
	415	Coding and Communication (3)	
	416	Theory of Numbers (3)	
	441	Geometry and Topology (3)	
	445	Differential Geometry (3)	
	473	Boundary Value Problems (3)	
	475	Topics Partial Dif Equations (3)	

or as approved

9

54 hrs

Mathematical science students are encouraged to take CS 120 and PHYC 120. PHYC 120 satisfies the natural science requirement in the University Core Curriculum. Students are strongly advised to deepen their understanding of aspects of the program by selecting additional courses in areas such as business, computer science, finance, economics, or physics. By selecting additional courses appropriately, a student can earn a related minor in computer science, physics, or foundations of business for actuarial science and mathematics majors.

MATHEMATICAL SCIENCES (MATH)

Dropped:

671 Continuous and Discrete Mathematics for Elementary and Middle School Teachers (3)

691 Developmental Instruction in Mathematics (3)

New:

518 Rational Numbers and Proportionality for Elementary and Middle School Teachers (3) An in-depth study of rational number concepts and operations and the development of proportional reasoning. Also, issues related to teaching.

Prerequisite: at least one year of elementary or middle school teaching experience or permission of the department chairperson.

692 Actuarial Science Exit Survey (0) This 0-credit course consists of an exit survey that should be completed by all students who attain an MA in Actuarial Science from Ball State University. The survey will ask students about professional actuarial exams completed prior to graduation, actuarial internships held during their time in the program, and their employment or education plans after graduation.

Prerequisite: students will either have completed all course requirements for an MA in Actuarial Science or will complete all requirements by the end of the current semester.

Revised:

132 Brief Calculus (3) Brief survey of differential and integral calculus. Emphasizes business applications of these topics.

Prerequisite: C- or better in MATH 111, or an appropriate score on the SAT/ACT or on the mathematics placement test, or permission of the department chairperson.

161 Applied Calculus 1 (3) Discussion of limits, derivatives, differentials, and definite and indefinite integrals. Focuses on the application of these topics in the applied sciences.

Prerequisite: C- or better in MATH 111, or an appropriate score on the SAT/ACT or on the mathematics placement test, or permission of the department chairperson.

Not open to students who have credit in MATH 165.

162 Applied Calculus 2 (3) Derivatives and integrals of transcendental functions with additional applications, techniques of integration, improper integrals, calculus in higher dimensions and series.

Prerequisite: C- or better in MATH 112, or an appropriate score on the SAT/ACT or on the mathematics placement test, and C- or better in MATH 161 or 165, or permission of the department chairperson.

Not open to students who have credit in MATH 166.

165 Calculus 1 (4) Differential calculus of algebraic and transcendental functions and applications, antidifferentiation and the Riemann integral. Includes the use of graphing calculators and computer software.

Prerequisite: C- or better in MATH 111, 112 or sufficient background in algebra and trigonometry as evidenced by the student's SAT/ACT scores and/or score on the mathematics placement test, or permission of the department chairperson.

320 Probability (4) Probability theory for discrete and continuous sample spaces, random variables, density functions, distribution functions, marginal and conditional distributions, mathematical expectation, moment-generating functions, common distributions, sampling distribution theory, central limit theorem, t, chi-square, and F distributions.

Prerequisite: MATH 166 or permission of the department chairperson.

Parallel: MATH 215.

471 Real Analysis 1 (4) Real and complex number systems: ordered sets, least upper bound property, fields, Archimedean property; Basic topology: cardinality, metric spaces, completeness, compactness, connectedness; Numerical sequences and series: convergence tests, upper-lower limits; Continuity: continuous functions, uniform continuity, Intermediate and Extreme Value Theorems; Differentiation: derivative, Mean Value Theorem, l'Hospital's Rule, Taylor's Theorem.

Prerequisite: MATH 215, 267; or permission of the department chairperson.

571 Real Analysis 1 (4) Real and complex number systems: ordered sets, least upper bound property, fields, Archimedean property; Basic topology: cardinality, metric spaces, completeness, compactness, connectedness; Numerical sequences and series: convergence tests, upper-lower limits; Continuity: continuous functions, uniform continuity, Intermediate and Extreme Value Theorems; Differentiation: derivative, Mean Value Theorem, l'Hospital's Rule, Taylor's Theorem.

Prerequisite: MATH 215, 267; or permission of the department chairperson.

Not open to students who have credit in MATH 471.

641 Topics in Geometry (3) A survey of topics in contemporary geometry from various perspectives, including conjecture and exploration, formal analysis, and application beyond geometry.

Prerequisite: at least one year of teaching experience or permission of the department chairperson.

693 Teaching Mathematics through Problem Solving (3) Knowledge and skills for teaching and learning mathematics through problem solving using multiple representations and orchestrating mathematical discourse to promote mathematical reasoning in student-centered mathematics classrooms. Design, select/adapt, and solve worthwhile mathematical tasks to support teaching through problem solving.

Prerequisite: at least one year of teaching experience or permission of the department chairperson.

695 Mathematics Learners and Learning (3) In-depth look at mathematics learners and learning as related to learning trajectories, cultural differences, and social learning contexts while building upon learners' existing knowledge/skills.

Prerequisite: at least one year of teaching experience or permission of the department chairperson.

697 Mathematics Teacher Leadership 1 (3) An introduction to the development of strategies and skills for teacher leadership in mathematics education, with a focus on models for professional development of mathematics teachers.

Prerequisite: MATH 690.

698 Mathematics Teacher Leadership 2 (3) An expansion of the development of strategies and skills for teacher leadership in mathematics education, with a focus on research and collaboration with colleagues and professional communication with stakeholders.

Prerequisite: MATH 694, 697.

DEPARTMENT OF MODERN LANGUAGES AND CLASSICS

Revised:

MAJOR IN CLASSICAL CULTURE, 33 hours

<i>PREFIX</i>	<i>NO</i>	<i>SHORT TITLE</i>	<i>CR HRS</i>
6 hours from GRK or LAT at the college level			6
CC	201	Cultural Life Ancient Greece	3
	202	Cultural Life Ancient Rome	3
	301	Classical Lit in English Trans (3-6)	3
	305	Classical Myth and Theory	3

15 hours from CC, GRK, LAT or from courses on the cultures of the ancient Mediterranean in other disciplines

15

33 hrs

It is strongly recommended that students take CC 105 before taking CC 201 or 202. CC 105 will count toward the 33 hours required for the major. Only 3 credit hours may be earned for the major from CC 101 or 102. Only 6 credit hours may be earned for the major from courses other than CC, GRK, LAT, or HIST. Course other than CC, GRK, LAT, or HIST must be pre-approved by the department chair.

MAJOR IN CLASSICAL LANGUAGES, 33 hours

<i>PREFIX</i>	<i>NO</i>	<i>SHORT TITLE</i>	<i>CR HRS</i>
<i>Greek option:</i>			
GRK	101	Beginning Greek 1	3
	102	Beginning Greek 2	3
	201	Intermediate Greek 1	3
	202	Intermediate Greek 2	3
6 hours from 300-level GRK courses			6
15 hours from CC and/or LAT and GRK courses			15
			33 hrs

Latin option:

LAT	201	Intermediate Latin 1	3
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202	Intermediate Latin 2	3
9 hours from 300- and 400-level LAT courses		9
18 hours from CC and/or LAT and GRK courses		18
		33 hrs

MINOR IN CLASSICAL LANGUAGES, 15 hours

<i>PREFIX</i>	<i>NO</i>	<i>SHORT TITLE</i>	<i>CR HRS</i>
<i>Greek option:</i>			
GRK	101	Beginning Greek 1	3
	102	Beginning Greek 2	3
	201	Intermediate Greek 1	3
	202	Intermediate Greek 2	3
One 300-level GRK course			3
			15 hrs

Latin option:

LAT	201	Intermediate Latin 1	3
	202	Intermediate Latin 2	3
One 300-level LAT course			3
6 hours from 300- or 400-level CC or LAT courses			6
			15 hrs

FOREIGN LANGUAGES (FL)

Revised:

395 Teaching Methods, Reading Strategies, and Materials for World Language (3) Current, best-practices methods in world language education focusing on integrated language and culture instruction, reading strategies, technology-enhanced language learning, standards-based planning and assessment, diverse learners, and materials development. Review of current professional literature, trends, and licensing requirements.

Prerequisite: two years of college credit or the equivalent in a modern or classical language; identification to pursue a teaching curriculum.

Parallel: EDSE 380; EDJH 385 recommended.

595 Teaching Methods, Reading Strategies, and Materials for World Language (3) Current, best-practices methods in world language education focusing on integrated language and culture instruction, reading strategies, technology-enhanced language learning, standards-based planning and assessment, diverse learners, and materials development. Review of current professional literature, trends, and licensing requirements.

Prerequisite: two years of college credit or the equivalent in a modern or classical language; identification to pursue a teaching curriculum.

Parallel: EDSE 380; EDJH 385 recommended.

DEPARTMENT OF PHILOSOPHY AND RELIGIOUS STUDIES

RELIGIOUS STUDIES (RELS)

New:

299X Experimental/Developmental Topics (3) Topics relevant to the discipline. Course titles will be announced before each semester.

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)

Revised:

290 Evaluation and Assessment in School Health (2)

Designed as an introduction to evaluation and assessment strategies in school health. Students will be introduced to content standards and assessment and evaluation, learn how to use standards as a guide for assessment, and develop assessment instruments including rubrics for assessing student work. A secondary purpose of the course is to develop school health educators capable of reflecting up on their own work to improve professional practice.

Prerequisite: HSC 160; EDSE 150.

Open only to school health majors.

DEPARTMENT OF SOCIOLOGY

SOCIOLOGY (SOC)

Dropped:

523 Industrial and Post-Industrial Society (3)

528 Globalization and Third-World Societies (3)

537 Global Inequality (3)

574 Seminar on Middletown Studies (3)

583 Evaluation and Qualitative Research (3)

Revised:

683 (583) Qualitative Research Methods (3) Examines the nature of qualitative research methodology. Provides experience in qualitative research proposal writing.

DEPARTMENT OF SPEECH PATHOLOGY AND AUDIOLOGY

Revised:

MAJOR IN PREAUDIOLOGY, 64-65 hours

Completion of the major in preaudiology preparation does not guarantee admission to any Ball State post-baccalaureate program in audiology, nor to other graduate or professional audiology programs. Admission to such programs is usually competitive and typically requires submission of standardized test scores.

Although most students entering AuD programs will have completed a four-year undergraduate program, those with outstanding qualifications may be admitted after only three years. Students who have completed the undergraduate preaudiology preparation major requirements and who have been admitted to an AuD program may be able to use the credit earned in their first year of AuD professional courses to meet the senior-year course requirements for the baccalaureate degree from Ball State.

Admission and progression policies are available from the SPAA office (AC 104).

<i>PREFIX</i>	<i>NO</i>	<i>SHORT TITLE</i>	<i>CR HRS</i>
BIO	111	Principles of Biology 1	4
CHEM	101	Gen, Org, Biochem/Hlth Sci	5
HSC	250	Emergency Health Care	3
MATH	125	Mathematics Applications	3
PSYS	100	Intro to Psychological Science	3
	241	Statistics	3
SOC	100	Principles of Sociology	3
SPAA	100	Survey of Speech Path and Aud	2
	101	Clinical Phonetics	3
	260	Speech Acoustics	3
	270	Language Development	3
	343	Introduction to Audiology	3
	344	Hearing 2	3
	345	Clinical Audiology	2
		3 hours from	
MKG	200	Fundamentals of Marketing (3)	
	300	Principles of Marketing (3)	3
		3-4 hours from	
PHYC	100	Conceptual Physics (3)	
	110	General Physics 1 (4)	3-4
		3 hours from	
ANAT	201	Fundamentals of Human Anatomy (3)	
SPAA	161	Anat & Phys of Sp & Hr (3)	3
		3 hours from	
PHYS	205	Fund of Hum Phys (3)	
PSYS	412	Sensation and Perception (3)	3
		3 hours from	
CS	104	Introduction to Computers (3)	
ISOM	125	Micro Apps for Business (3)	3

3 hours from			
MGT	200	Management Principles (3)	
	300	Managing Behavior in Org (3)	3
3 hours from			
SNLN	251	American Sign Language 1 (3)	
SPCE	240	Hist Ed Deaf Prsns/Psych Dfns (3)	3
			64-65 hrs

SPAA 210, as prerequisite to SPAA 344, is waived.

603 Psychology of Human Development (3) Advanced lifespan human development. Covers biological, cognitive, and social development from conception to death, emphasizing theories, research, and applications to educational and psychological practice.

627 Child Development (3) Advanced child development. Covers the biological, cognitive, and social developmental processes from conception to the transition into early adolescence, emphasizing current research in child development.

628 Adolescent Development (3) Advanced adolescent development. Covers the biological, cognitive, and social developmental processes from the beginning of puberty through the transition into early adulthood, emphasizing current research in adolescent development.

629 Adult Development and Aging (3) An advanced course in adult development. Covers the biological, cognitive, and social developmental processes from early adulthood through late adulthood, including death and dying. Content is based on current theories and research.

652 Introduction to Neuropsychology (3) Introduction to brain-behavior relationships with special emphasis on cognitive, biological and sensory motor functioning. Brain dysfunction and common disorders are explored with an empirical approach using basic neuroscience research methods.

669 Concepts in Developmental Neuropsycholinguistics (3) Comprehensive review and analysis of neurobiological and environmental developmental theories as applied to language acquisition and behavior. Application of these concepts to language assessment within the context of neuropsychological and psychoeducational evaluation as well as remediation and intervention.

Prerequisite: EDPS 652 or permission of the instructor.

698 Special Topics (3-9) Group or individual investigation and study of current issues, problems, and developments in human development, classroom learning, research methods, or statistics.

Prerequisite: permission of the instructor.

A total of 9 hours of credit may be earned.

730 (645) Introduction to Nonparametric Statistics (3)

Focus on statistical methods appropriate for data in which standard assumptions such as normality and equality of variance are not met. Covers approaches for problems from one sample estimates of location to nonparametric multivariate techniques such as factor analysis. Students will learn about methods based on ranks, permutation tests, and the bootstrap.

Prerequisite: EDPS 641.

744 Structural Equation Modeling (3) Focuses on the application of covariance structure models to a variety of research problems. Students will learn about the major

Teachers College

DEPARTMENT OF EDUCATIONAL PSYCHOLOGY

EDUCATIONAL PSYCHOLOGY (EDPS)

Dropped:

645 Introduction to Nonparametric Statistics (3)

New:

601 Seminar in Educational Psychology (1-3) Students in the first two years of their doctoral work will complete an independent research project. Students will learn about resources and opportunities for successful graduate research, including library resources, institutional review of university research, grant writing, submitting conference presentations and procedures for publishing research.

Prerequisite: permission of the department chairperson.

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

Revised:

360 Service Learning with Children, Families, and Adults

(3) Students will be placed with local agencies and work directly with children, adults, families, and/or older adults. Instruction and reflection will focus on developmental psychology.

Prerequisite: EDPS 350 or 351 or 355 or permission of the instructor.

370 Service Learning with Children, Family, and Adults

(3) This immersive learning course will place students in local community agencies to conduct research and program evaluations.

Prerequisite: EDPS 350 or 351 or 355 or permission of the instructor.

600 Advanced Educational Psychology (3) Advanced survey of the concepts related to learning and motivation. Theories, research, and applications are explored with an emphasis on effective learning approaches and implications for instruction.

structural equation models and how to apply them using multiple software packages.

Prerequisite: EDPS 641 or equivalent.

DEPARTMENT OF EDUCATIONAL STUDIES

Revised:

DOCTOR OF PHILOSOPHY IN EDUCATIONAL STUDIES

This integrated interdisciplinary doctorate addresses changes in the character and delivery of public education, teacher education, and educational research through the study of three related disciplines in educational technology, curriculum, and social foundations/multicultural education (i.e., history, philosophy, sociology, anthropology, etc.). The program addresses the following critical issues facing education in the 21st century: 1) the increasing role of technology in learning, instructional design, curriculum development, assessment, and pedagogy; and 2) the influence of societal trends in demographics, economics, and politics on the structure and culture of schools. The program serves a variety of professionals who wish to advance their careers in higher education as teacher educators and researchers, as well as curriculum directors, program evaluators and consultants in schools. Graduates are prepared with the necessary knowledge, skills, and understanding to: assist students, teachers, and policy makers to function in a knowledge society; implement teaching and learning strategies; engage in systematic assessment, evaluation, and research; and develop strategies to address the learning needs of changing populations.

Admission requirements

Applicants must meet the admission requirements of the Graduate School. Applicants must also be able to demonstrate their ability to pursue advanced knowledge in each of the three areas of major concentration: curriculum, educational technology, and history, philosophy, and sociology of education. Applicants must hold a masters degree from an accredited college or university with a grade-point average of at least 3.5 on a 4.0 scale and have acceptable scores on the Graduate Record Examination (GRE).

Degree requirements

The PhD in Educational Studies requires a minimum of 90 credits beyond the bachelor's degree, including a 14 credit research core, a 12 credit Educational Studies core, a 24 credit area of major concentration, two 15 credit directed cognates. Completion of the dissertation earns 10 credits. Students will choose one (1) of the following three tracks as their major concentration (24 credits) and the other two as their directed cognate areas (15 credits in each area): Curriculum, Educational Technology, or History, Philosophy, and Sociology of Education.

PREFIX	NO	SHORT TITLE	CR HRS
Research core			
EDPS	640	Research Methods	3
	641	Statistical Methods	3
EDST	650	Intro to Qual Res	3
	660	Ethno Res in Ed	3
ID	705	Research Colloquium (1-3)	2
			14

Educational Studies core

EDCU	601	Princ & Proc of Curr Dev	3
EDTE	650	Curr Integ of Lrng Tech	3
EDFO	631	Philosophy of Education	3
EDST	735	Seminar in Educational Studies	3
			12

Area of Major Concentration

Select Curriculum, Educational Technology, or History, Philosophy, and Sociology of Education:

Curriculum

Required for the Major Concentration:

EDST	671	Eval of Ed Prgms (3)	
EDCU	725	Curr Thry, Proc, & Products (3)	
	798	Sem in Curr Dev (3)	

6 hours from the following:

EDCU	610	Elem Schl Curriculum (3)	
	620	Se School Curriculum (3)	
	630	Jr Hi & Mid School Curr (3)	
	640	Altern School Curricula (3)	
	673	Curriculum Evaluation (3)	
	675	Eval/Ed Pers/Strength Curr (3)	
	690	Problems Curriculum (3)	
	700	Sem Curr/Staff Dev/Evalu (3)	
	799	Intern in Super & Curr (3)	
EDST	680	Staff Dev to Strengthn Curr (3)	

9 additional hours from above or from approved courses in the areas of pedagogy, supervision, leadership, and/or psychology.

Educational Technology

EDTE	585	School Information Infra (3)	
	652	Multi Web Des & Dev for Ed (3)	
	655	Inq & Sim Models in Ed Comp (3)	
	660	Instructi Des and Tech (3)	
	665	Visual and Digital Literacies (3)	
	670	Technology Policy and Pedagogy (3)	
	675	Dist Ed & Distrib Lrng Tech (3)	
	680	Adv Proj in Dig Media (3)	
	685	Info Sys for Inst & Assess (3)	
	690	Pract in Ed Tech (2-4)	
	699	Indep Study in Ed Tech (1-4)	
	770	Res & Eval in Ed Tech (3)	
	790	Internship in Educational Tech (3-5)	

History, Philosophy, and Sociology of Education

EDFO	610	Women, Gender, and Education (3)
	621	Education and Ethics (3)
	632	Sem in the Phil of Ed (3)
	641	History of American Education (3)
	642	Sem in Hist Ed Thought (3)
	651	Educational Sociology (3)
	652	Sem in Ed Soc (3)
	660	Comparative Education (3)
	699	Ind Study in Found of Ed (1-3)
EDMU	660	Multcl/Multieth Ed in Amer Sch (3)
	670	Soc & Cultural Min in Amer Ed (3)
	690	Ind Study in Multicul Ed (1-3)

Area of Major Concentration from above	24
Directed Cognate from above	15
Directed Cognate from above	15
Dissertation	10

90 hrs

Ron Murphy, Associate Director
Office of Academic Systems