BALL STATE UNIVERSITY

ACADEMIC POSTING

2016-2017

VOLUME XLVIII – 5

February 27, 2017

This posting may contain all or part of the following: new, revised, and dropped programs, courses and prefixes. The posting period begins February 27, 2017. If no demurrer is received within ten school days, the changes will be certified for implementation. *The effective date for implementing the undergraduate and graduate materials posted after May 5, 2017 is Fall Semester 2018.*

INTERDEPARTMENTAL PROGRAMS	172 Logi	ic Pro	(1)	
INTERDEPARTMENTAL (ID)	173 May	va (1)		
D	181 Pro	Tools	101 (1)	
Dropped:	182 Pro	Tools	110 (1)	
151 Final Cut Pro, Level 1 Certification (1-3)	251 Fina	al Cut	Pro, Level 2 Certification (1-3)	
152 Sound Editing in Final Cut Studio, Level 1 Certification (1-3)	282 Pro	Tools	201 (1)	
153 Color Correction in Final Cut Studio, Level 1	283 Pro	Tools	210 Production (1)	
Certification (1-3)	284 Pro	Tools	210 Music (1)	
154 Motion, Level 1 Certification (1-3)		-		
155 DVD Studio Pro, Level 1 Certification (1-3)	Real I	Lstat	e Development	
160 Photoshop Certification (1-3)	Revise	ed:		
161 Dreamweaver Certification (1-3)	MINOR	IN RI	EAL ESTATE DEVELOPMENT,	
162 Flash Certification (1-3)	25 credi		,	
163 After Effects Certification (1-3)	PREFIX	NO	SHORT TITLE CR	REDITS
164 Illustrator Certification (1-3)	PLAN	240 303	Plan and Priv Dev Economic Development Studio	3 4
165 Premiere Pro (1)	RE	230	Real Estate Principles	3
166 InDesign (1)	Capstone FCPM	e: 3 cre 400	dits from Housing and Society (3)	
167 Fireworks (1)	PLAN	490	Ind Study in Plan (1-9)	
168 Lightroom (1)	TEDU	498 490	Spec Proj in Urbn Plan and Dev (3-9) Study in Technology (1-3)	
	TCST	460	Capstone in Construction (3)	3
169 Soundbooth (1)				13
170 Aperture (1)	Electives	S		
171 Encore DVD (1)	12 credit	s from	any of the following areas	

Business	Admi	nistration and Real Estate Law
ACC	201	Principles of Accounting 1 (3)
1100	202	Principles of Accounting 2 (3)
BL	260	Principles of Business Law (3)
ECON	221	Business Statistics (3)
MKG	300	Principles of Marketing (3)
PLAN	452	Urban Planning Law (3)
RE	331	RE Construction Law and Fin (3)
KL	331	RE construction Law and 1 in (3)
Commun	nity De	evelopment
PLAN	430	Housing and Comm Dev (3)
	453	Center City Revitalization (3)
	465	•
	485	
	486	
	498	Spec Proj in Urbn Plan and Dev (3-9)
Construc		
TCST	180	Construction Documents (3)
	200	Site Preparation (3)
	320	Estimating (3)
	365	Construction Safety (3)
	400	Const Proj Mngmnt (3)
	420	Construction Finance and Law (3)
Housing	and Pr	roperty Management
FCPM	104	Housing Decisions (3)
1 01 1/1	235	Intro to RPM (3)
	305	Maintenance for Prop Mgr (3)
	315	Sr Housing: Dsgn, Mkg, and Mgt (3)
	405	Mgt of Gov Assisted Housing (3)
PLAN	411	Property Law (1)
LAN	430	Housing and Comm Dev (3)
	440	Building Performance (3)
	441	Sustainable Housing (3)
тсет		
TCST	252	Building Diagnostics (3)
Public P	olicy a	nd Facilities
PLAN	421	Urban Land-use Planning (3)
	439	Community Facilities Planning (3)
	452	Urban Planning Law (3)
Manager	nent	
MGT	241	The Entrepreneurial Experience (3)
MOI	300	Managing Behavior in Org (3)
		Opportunity Identification (3)
	341	
	346	Product and Service Design (3)

12

25 crs

The capstone requirement may be fulfilled through any independent study course with the approval of the Real Estate Development program's academic advisor and coordinator. All independent study courses and variable-title courses such as PLAN 498 must be cleared with RED program advisor to be certain they qualify toward the minor. Urban planning and development majors are strongly advised to take their electives outside of their major.

COLLEGE OF ARCHITECTURE AND PLANNING

Department of Architecture

ARCHITECTURE (ARCH)

New:

340 Introduction to Historic Preservation for Architects

(3) The introduction of historic preservation in the context of architectural practice. Students will become familiar with the significant public and private Preservation agencies and organizations, along with the roles they play in the Preservation movement. The legal basis of preservation will be surveyed, as well as the process for documenting, designating, and protecting historic properties. Preservation treatment and re-use options will be discussed in light of conversation, sustainability and cultural continuity.

Not open to students who have credit in ARCH 440. Open only to B.ARCH; BS/BA in architecture and environmental design majors.

400 Comprehensive Architecture Studio (6) Architecture studio involves architectural design explorations requiring integrated evaluations and decision-making in the design process. Projects will demonstrate consideration and integration of environmental and structural systems, environmental stewardship, technical documentation, accessibility, site conditions, life safety, and building envelope systems and assemblies.

Prerequisite: ARCH 302.
Parallel: ARCH 420.
Open only to B.ARCH majors.

403 Architecture Design Studio (6) Architecture design studio investigating topical architectural problems that may have an interdisciplinary and/or applied aspect. Within this, students are expected to increasingly define their design values and effective methods for engaging and representing them.

Prerequisite: ARCH 400. Parallel: ARCH 424.

Open only to B.ARCH majors or by permission of the department chairperson.

404 Architecture Final Project Studio (6) Conceptual and design development processes applied to a student initiated and defined architecture design final studio project.

Prerequisite: ARCH 403.

Open only to B.ARCH majors.

420 Professional Practice (3) Overview of the essential aspects of the architectural profession. Subjects include: stakeholder roles in architecture; project management; business practices; financial considerations; legal responsibility; ethics and professional conduct.

Parallel: ARCH 400. Open only to B.ARCH majors.

424 Research and Programming Methods in Architecture

(3) Exposure to methods and procedures of architectural research and programming, including case studies. Application of these methods to research and programming for development of individual final project proposals for the architecture final project studio.

Parallel: ARCH 403.

Open only to B.ARCH majors.

Revised:

301 Architectural Design (5) Integration of all facets of design including design, research, programming, technology, function, human behavior, scheduling, time management, communication, use of materials, and systems. Workshops in the further exploration and development of visualization and communication skills at all stages of the design process.

Prerequisite: ARCH 202.

Parallel: ARCH 410.

Open only to B.ARCH; BS/BA in architecture and environmental design majors.

MILLER COLLEGE OF BUSINESS

Department of Accounting

Revised:

MASTER OF SCIENCE IN ACCOUNTING – Professional Accounting Concentration, 30 credits

PREFIX	NO	SHORT TITLE	CREDITS
Required	course	es	
ACC	625	Tax Planning and Research	3
	640	Intro Accounting Research	3
	650	Attestation Principles Prac	3
	665	Seminar in Management Acctg	3
	675	Seminar in Financial Acctg	3
	690	Seminar in Professional Issues	3
	695	Accounting Capstone	3
MBA	611	Stats and Quantitative Methods	3
Accounti	ng elec	etives	
ACC	630	Accounting Info Systems (3)	
	655	Selected Topics in Accounting (3)	
	660	International Acctg Issues (3)	
	670	Ped and Prac Research in Acctg (2)	
	671	Advanced Accounting Research I (2)
	672	Advanced Accounting Research II (2	2) 0-6
			24-30 crs

0-6 credits of graduate business courses outside the Department of Accounting approved by the

department chairperson or program advisor

MASTER OF SCIENCE IN ACCOUNTING – Research and Analytics Concentration, 30 credits

PREFIX	NO	SHORT TITLE	CREDITS
Required	course	es	
ACC	640	Intro Accounting Research	3
	670	Ped and Prac Research in Acctg	2
	671	Advanced Accounting Research I	2
	672	Advanced Accounting Research II	2
	680	Accounting Research Methods	3
	699	Research in Accounting	3
FIN	645	Bus Analy Vae Creation	3
MBA	611	Stats and Quantitative Methods	3
Accounti	ng ele	ctives	
ACC	625	Tax Planning and Research (3)	
	630	Accounting Info Systems (3)	
	650	Attestation Principles Prac (3)	
	655	Selected Topics in Accounting (3)	
	660	International Acctg Issues (3)	
	665	Seminar in Management Acctg (3)	
	675	Seminar in Financial Acctg (3)	
	690	Seminar in Professional Issues (3)	
	695	Accounting Capstone (3)	3-9
			24-30 crs
	_	raduate business courses outside the Accounting approved by the	
		irperson or program advisor	0-6
			30 crs

Department of Economics

ECONOMICS (ECON)

Revised:

330 Sports Economics (3) Economics affects sports players, teams, leagues and institutions. The course applies economic principles to sports and covers topics such as the organization of sports, the market for franchises, financing sports venues, ticket prices, labor relations, player drafts, athlete compensation, betting markets, cooperative, collusive and competitive strategic behaviors in sports, and anti-trust issues. Students successfully completing this course will be able to understand and apply economic principles to sports and in their own lives.

Prerequisite: ECON 201 and ECON 221.

COLLEGE OF FINE ARTS

Department of Art

ART (ART)

0-6

30 crs

New:

508 Graduate Experimental Animation (3) This class is designed to utilize multiple media and forms of animation to allow the student to explore, integrate, and develop new and interesting ways to create stories and ideas.

509 Graduate Visual Storytelling (3) This course provides an in-depth look into cinematic storytelling by investigating the effective visual communication of concepts and ideas. Readings, discussions, critiques, writings and practical application will help to explore these ideas and execute them.

510 Graduate Animation Methods (3) This class emphasizes visual storytelling through the development of writing, storyboards, and animatics. Additionally the course covers history, style, and personalities throughout animation history. *Open only to* graduate students.

610 Graduate Production 1 (3) This class focuses on the designing and production of collaborative animations projects. Projects will be produced in collaboration with an interdisciplinary group of artists, animators, or composers.

612 Graduate Production 2 (3) Production 2 is a continuation of creating collaborative animation projects. Projects will be produced in collaboration with an interdisciplinary group of artists, animators, or composers.

School of Music

Revised:

MINOR IN MUSIC: JAZZ/COMMERCIAL, 25 credits

PREFIX	NO	SHORT TITLE	CREDITS
MUHI	200	Survey of Music Literature	2
MUSP	204	Jazz Study (1-2)	2
	231	Jazz Combo (1-4)	1
	456	Jazz Improv 1	2
	457	Jazz Improv 2	2
	462	Jazz Piano Lab	1
MUST	101	Sight Singing and Ear Training	1
	102	Sight Singing and Ear Training	1
	111	Music Theory	2
	112	Music Theory	2
	250	Jazz Theory	2
MUSC	499	Recital	1
2 credits	from		
MUSC	341	Large Instrumental Ensemble	2
4 credits	from		
MUHI	441	Jazz History (2)	
MUSE	465		
MUST	223	Jazz Composition (2)	
	414	Jazz Arranging (2)	
	415	Jazz Arranging 2 (2)	

MUSP 204 Jazz Study (1-2)

4

25 crs

MUSIC HISTORY AND MUSICOLOGY (MUHI)

Revised:

331 Music History 2 (3) Traces the development of musical styles and compositional techniques from ca 1720 to the present, and examines the relationships between music, others arts, and broader socio-political contexts.

Prerequisite: MUHI 200 and 330 or departmental permission.

Open only to music majors.

436 Music in the Classical Era (2) A survey of vocal and instrumental music of the eighteenth century, including the various styles that marked the transition from the baroque to classical music, the rise of comic opera, and the development of the symphony, concerto, sonata, chamber music, and keyboard literature.

Prerequisite: MUHI 200 and 331. Open only to music majors.

MUSIC PERFORMANCE (MUSP)

New:

520 Instrumental Literature and Pedagogy (1-2)

Introduction to and preparation of music and materials for instrumental music literature. May include audition preparation, solo and ensemble repertoire, practice techniques, and pedagogy techniques. This is an elective course.

A total of 4 credits may be earned.

Open only to graduate-level students accepted into an instrumental performance degree program.

Department of Theatre and Dance

DANCE (DANC)

New:

200 The Dancer's Body (2) An introduction to the basic knowledge of the human body in specific relation to dance, including studies of the musculoskeletal systems, nervous system, and kinesiology, as well as common dancer pathologies, injury prevention, and body maintenance. Additional topics may include the function of anatomical structures of the human body, the biomechanical principles of these structures and the integration of these systems.

Prerequisite: permission of the department chairperson.

289 Student-Directed Dance Performance (1) This course provides students with practical performance experience as part of the student directed production series.

Prerequisite: permission of the department chairperson. A total of 8 credits may be earned, but no more than 1 in any one semester or term.

389 Studio Dance Performance (1) This course provides students with a practical performance experience as part of the faculty and/or guest artist directed studio production series.

Prerequisite: permission of the department chairperson. A total of 8 credits may be earned, but no more than 1 in any one semester or term.

Revised:

300 Body Conditioning and Maintenance (2) A specialize study of specific body therapies utilized to preserve, protect, and maintains a dancer's instrument. This course may include Pilates, yoga, proprioceptive neuromuscular facilitation techniques, relaxation techniques, somatic practices, massage techniques, diet and wellness.

Prerequisite: permission of the department chairperson. A total of 6 credits may be earned, but no more than 2 in any one semester or term.

489 Mainstage Dance Performance (1) This course provides students with a practical dance performance experience as part of the faculty and/or guest artist directed mainstage production series.

Prerequisite: permission of the department chairperson. A total of 7 credits may be earned, but no more than 1 in any one semester or term.

THEATRE (THEA)

New:

373 Musical Theatre Scene Study (2) This course will connect acting and singing studios through the use of libretto scenes and their accompanying duets from multiple periods in musical theatre. Students will understand heightened realism in musical theatre and specify the physical and emotional world of the piece, and will learn how to bridge the gap between the spoken text and songs particular to this genre of performance.

Prerequisite: permission of the department chairperson.

Dropped:

395 Introduction to Teaching Methods for Theatre (3)

Theory and practice of teaching theatre in middle and secondary schools. Includes curriculum development, instructional planning, classroom management techniques, methods and strategies of instruction, assessment, and use of instructional aids and activities for the classroom.

Prerequisite: THEA 220 and 232.

Revised:

280 Theatre and Dance Practicum (0-1) Intensive experience in theatre performance, dance performance, stage management, scenery and costume preparation, running crews, theatre management, and other production areas. Students should complete practicum in six different areas.

Prerequisite: permission of the department chairperson. A total of 15 credits may be earned, but no more than 3 in any one semester or term.

295 (395) Introduction to Teaching Methods for Theatre

(3) Theory and practice of teaching theatre in middle and secondary schools. Includes curriculum development, instructional planning, classroom management techniques, methods and strategies of instruction, assessment, and use of instructional aids and activities for the classroom.

Prerequisite: THEA 220, 232.

COLLEGE OF HEALTH

School of Kinesiology

Revised:

MAJOR IN SPORT ADMINISTRATION (BA/BS), 72-75 credits

Admission requirements

- Completion of ECON 201; and ENG 104 with a C or better.
- Completion of ACC 201; and SPTA 190 with *C* or better.
- Completion of at least 8 hours of field experience in the sport industry.
- Completion of Ball State University Sport Administration Program application.
- Attain a minimum overall grade-point average of 2.5 at the time of application.

Once admitted into the sport administration major the following guidelines will be used to evaluate each student in order to remain in this program of study. Only students admitted into the program will have access to advanced course work (200-400 level) in the area of sport administration (SPTA prefix).

- Maintenance of an overall grade-point average of 2.5 or higher.
- No grade lower than a *C* will be accepted in any course within the sport administration and business core courses.
- Maintenance of an overall grade-point average of 2.0 or higher within the business minor requirement.
- Internship (SPTA 479) enrollment requires senior standing and approval of the coordinator.

ACC	201	Principles of Accounting 1	3
BL	260	Principles of Business Law	3
ECON	201	Elementary Microeconomics	3 3
MGT	300	Managing Behavior in Org	3 3 3 3 3 3 3 3 3
MKG	300	Principles of Marketing	3
PEP	409	Psychological Social Issues	3
SPTA	190	Introduction to Sport Admin	3
	195	Comp Tech App for Sport Admin	3
	290	Revenue Generation in Sport	3
	300	Sport Law	3
	303	Sport Marketing	3
	305	Sport Finance	3
	345	Sport Communication	3
	402	Sport Event and Facility Mgt	3
	448	Sport Governance	3
	479	Sport Admin Internship	12
	485	Sport Management	3
			60 crs
Students	must a	also complete the additional credits	
		following minors:	
		Business (12 credits)	
		Management (12 credits)	
Marketii			
		lling (15 credits)	12-15
			72-75 crs

Department of Nutrition and Health Science

Revised:

15 credits from

Master of Arts in Nutrition and Dietetics, 36 credits

PREFIX	NO	SHORT TITLE	CREDITS
36 credi	ts from		
Research	n comp	onent, 6 credits from	
EDPS	641 or	Intro Statistical Methods (3)	
	642 or	Analysis of Variance (3)	
HSC	683 or	Principles of Epidemiology (3)	
	687	Stat Thry and Meth in Hlth Sci (3)	3
NUTR	697	Research Methods Nut Dietetics (3)	3
			6 crs
Nutrition	n core,	15 credits from	
NUTR	642	Nutrition Assessment	3
	647	Carbs, Proteins, and Lipids	3
	648	Vitamins and Minerals	3
6 credits	from 6	600-level NUTR courses	6
			15 crs

Electives inside or outside the Department of Nutrition and Health Science (may include dietetic internship NUTR 680, 681, 682)

15

36 crs

COLLEGE OF SCIENCES AND HUMANITIES

Department of Biology

Revised:

MAJOR IN BIOLOGY (BA/BS), 65-74 credits

Concentration 1: General, 18-24 credits

Six elective courses at the 300-level or above in ANAT, BIO, BIOT, BOT, PHYS, or ZOOL. Courses taken to fulfill University Core Curriculum requirements and biology major requirements may not be used as electives in this category.

18-24 crs

Department of Criminal Justice and Criminology

CRIMINAL JUSTICE AND CRIMINOLOGY (CJC)

New:

397 Constitutional Issues in Criminal Justice (3) This class explores legal precedents in the criminal justice system. Analyses of appellate court decision are limited to those that are related to the 1st, 2nd, 4th, 5th, 6th, 8th, and 14th amendments. Topics include criminal investigations, custody, interrogations, searches and seizures, trial components, and sentencing.

Prerequisite: CJC 101 and 102 and 250. *Open only to* CJC majors and minors.

398 Human Services in Criminal Justice (3) This course examines offender characteristics and needs, and explores how human services can meet those needs. Special attention is paid to human service policies and practices in prevention efforts, criminal justice interventions, and reentry.

Prerequisite: CJC 101 and 102. Open only to CJC majors and minors.

399 Special Populations in Criminal Justice (3) This course examines special populations within the US criminal justice system, including (but not limited to) offenders with mental illness, elderly offenders, and offenders with HIV/AIDS. This course addresses the specific needs of each special population, as well as legal and ethical issues arising from their treatment in criminal justice contexts.

Prerequisite: CJC 101 and 102.

Open only to CJC majors and minors.

Revised:

309 Juvenile Justice and Delinquency (3) This course examines theoretical explanations of delinquency and the juvenile justice system. Delinquency is examined from numerous perspectives, including the role of families, communities, schools, and genetics. The examination of responses to delinquency include those by the police, courts and correctional institutions.

Prerequisite: CJC 101 and 102. Open only to CJC majors and minors.

332 Victimology (3) The purpose of this course is to examine the correlation of victimization theories. It also examines victims' reactions and various responses made to victims by the criminal justice system and other societal agencies.

Prerequisite: CJC 101 and 102. Open only to CJC majors and minors.

333 Policing in Free and Diverse Society (3) This course is an examination of issues and developing trends confronting police in the United States. It examines issues of police and policing including organizations and management, minorities in policing, police deviance, use of force, and community policing. It emphasizes developments in the provision of law enforcement and social services by the police at the local, state, and federal levels.

Prerequisite: CJC 101 and 102 and 230. *Open only to* CJC majors and minors.

341 Community Corrections (3) This course examines the organization and operation of community-based correctional programs throughout the United States. Topics include probation, parole, halfway houses, group homes, diversion, restitution, and community service programs, with an emphasis on best practice.

Prerequisite: CJC 101 and 102 and 240. Open only to CJC majors and minors.

350 Criminal Evidence and Procedure (3) This course intends to enhance student's understanding of the rules of evidence in criminal proceedings. In criminal trials, the primary goal of the rules of evidence is intended to secure a defendant's constitutional right to a fair trial. Rules of evidence are not only important for the protection of the fundamental rights of the accused, but also are necessary in maintaining the integrity of the criminal justice system.

Prerequisite: CJC 101 and 102 and 250. Open only to CJC majors and minors.

Department of English

ENGLISH (ENG)

Revised:

220 Language and Society (3) Addresses major social issues related to language use in the United States. Students learn through case studies and other projects to identify hidden assumptions, frame questions requiring research and do the research necessary to make informed decisions about linguistic issues in our society.

Department of History

Revised:

MASTER OF ARTS IN HISTORY, 33 credits

Admission requirements

Students must apply to and meet the admission requirements of the Graduate School. Students also must apply separately to the Department of History. All applicants must submit to the director a resume or curriculum vitae, original copies of all official undergraduate transcripts, a writing sample (typically their best undergraduate history paper), and a 300-500 word statement concerning goals and interests. Applicants normally should have earned at least a 3.0 grade-point average (GPA) on a scale of 4.0 in a minimum of 18 credits in undergraduate history courses. To qualify for a graduate assistantship in the department, applicants must take the Graduate Record Examination (GRE) general test and ordinarily have an undergraduate GPA of at least 3.0 on a scale of 4.0.

Degree requirements

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O SHORT TITLE	CREDI
re	
2 Seminar Modern Historiograph	ny 3
3 Seminar in Historical Research	3
	re 2 Seminar Modern Historiograph

Directed electives

A minimum of five courses in American, European, and/or World History distributed over a minimum of two areas. Students must select from the following courses:

American History

HIST	621	Studies in US History to 1877 (3)
	622	Studies in US History 1877- (3)

European History

HIST	631	Studies Early European History (3)
	632	Studies Modern Europe History (3)

World History

HIST 641 Studies in World History (3)

American, European, and/or World History (depending upon course topic and/or student project)

HIST	623	Special Topic	s US	Europe Hi	st (3-6)

633 Special Tpcs Comparative Hist (3-6)

661 Seminar in Digital History (3)

670 671	Intro to Teaching History (3) Seminar in History Education (3)	15
Two 500- or 60 approval in rela	00-level courses in history or with ated fields	6
		27 crs

Thesis concentration, 6 credits

Any student may choose to write a thesis. The history department strongly recommends that students who intend to continue their graduate education at the doctoral level write a thesis.

THES 698 Thesis (1-6) 6

or

General concentration, 6 credits

Students who choose not to write a thesis must complete 6 additional credits of 600-level course work in lieu of a thesis.

600-level course work 6

or

Digital concentration, 6 credits

Students who choose the Digital History concentration must take HIST 546 (or a suitable alternative digital methods course if they took HIST 446 as undergraduates, as arranged through consultation with the Director of the MA program) and HIST 661 as a directed elective. They must also take CRPR 698 for 6 credits, or CRPR 698 for 3 credits plus 3 additional credits of 600-level work.

CRPR 698 Creative Project (6)
or
698 Creative Project (3)
and 3 additional credits of 600-level work (3)

or

History Teaching concentration, 6 credits

Students who choose the History Teaching concentration must take HIST 670 and HIST 671 as directed electives. They must also takes THES 698 or CRPR 698 for 6 credits, or CRPR 698 for 3 credits plus 3 additional credits of 600-level work.

THES	698	Thesis (6)	
	or		
CRPR	698	Creative Project (6)	
	or		
	698	Creative Project (3)	
And 3 ad	ldition	al credits of 600-level work (3)	6
			33 crs

MA Examination

All students must take a three-hour MA examination, consisting of two 90-minute written examinations in two of three geographic fields. The first examination is in the student's primary field of study. The second examination is comparative in

nature and will require the student to make connections between his or her primary and complementary fields. The written exam is followed by a one-hour oral examination. Students must take at least three courses (9 credits) in the primary field of study, at least two of which (6 credits) must be at the 600 level. Students will complete at least two courses (6 credits) in the complementary field of study from a different geographic area. At least one of those courses (3 credits) must be at the 600 level.

Department of Mathematical Sciences

Revised:

MASTER OF ARTS IN MATHEMATICS EDUCATION, 30-36 credits

The master of arts in mathematics education provides opportunities for elementary, middle school, and high school teachers to examine various issues related to the teaching and learning of mathematics while continuing to develop their own mathematical content knowledge.

Concentration 1: Elementary and middle school mathematics, 30 credits

Admission requirements

Applicants must meet the regular admission requirements of the Graduate School; hold a current elementary, middle special education teaching license; and have at least one year of elementary or middle school teaching experience.

Degree requirements

PREFIX NO SHORT TITLE CREDITS

Content knowledge for teaching mathematics, 12 credits from Choose four courses from

CHOOSE I	our cou	arses from	
MATH	514	Alg Res Elm Mid Fnd Math Teach (3)	
	517	Num Concpts and Num Thry Teach (3)	
	518	Rat Num Prop El Mid Fnd Tch (3)	
	542	Geo Meas Ele Mid Fnd Math Tch (3)	
	623	Prob Data Anal Stat Reasoning (3)	12
Dagaanah	and no	adagagical knowledge for tooching	

Research and pedagogical knowledge for teaching mathematics, 12 credits

MATH	690	Curriculum Instruct Math Ed	3
	693	Teaching Math Prob Solving	3
	694	Research Methods Math Educat	3
	696	Action Research Math Education	3

Electives in content or pedagogical knowledge for teaching mathematics, 6 credits (as approved by advisor) from

- MATH 514 Alg Res Elm Mid Fnd Math Teach (3) 517 Num Concpts and Num Thry Teach (3)
 - Rat Num Prop El Mid Fnd Tch (3)
 Geo Meas Ele Mid Fnd Math Tch (3)
 - 623 Prob Data anal Stat Reasoning (3)

	631	Technology Mathematics Teach (3)	
	632	Assessment Math Education (3)	
	641	Topics in Geometry (3)	
	680	Special Studies Teaching Math (3)	
	695	Math Learners and Learning (3)	
	697	Math Teacher Leadership 1 (3)	6
			30 crs
Concenti	ration 2	2: Secondary mathematics, 30-32 credi	ts
Admissi	on req	uirements	
A1:	4	t t th	
the Grad mathema the Depa	uate So tics or rtment	t meet the regular admission requireme chool; have an undergraduate major in an equivalent background as determine of Mathematical Sciences; hold a curre	ed by
		ematics teaching license; and have at leary mathematics teaching experience.	east one
Degree r	equire	ements	
Content 1	knowle	edge for teaching mathematics, 12 credi	ts
MATH			3
	570	_	
	623	Prob Data Anal Stat Reasoning	3
	641	Topics in Geometry	3
Electives	in con	ntent knowledge for teaching	
		-8 credits (as approved by advisor) fron	1
the follow	wing		
MATH	512	Abstract Algebra 2 (3)	
	516	Theory of Numbers (3)	
	517	Num Concpts and Num Thry Teach (3)
	560	History of Mathematics (3)	
	620	Probability and Random Vars (4)	
	621 645	Theory of Statistics (4)	
	677	Topology 1 (3) Complex Variables 1 (3)	3-8
	077	Complex variables 1 (3)	3-0
Research	and po	edagogical knowledge for teaching	
mathema			
MATH	690	Curriculum Instruct Math Ed	3
	693	Teaching Math Prob Solving	3 3 3
	694	Research Methods Math Educat	3
	696	Action Research Math Education	5
Electives	in ped	lagogical knowledge for teaching	
		-3 credits (as approved by advisor) fron	n
MATH	631	= =	
	632	Assessment Math Education (3)	

Concentration 3: Elementary/middle school mathematics specialist, 36 credits

Math Learners and Learning (3)

0-3

30-32 crs

Math Teacher Leadership 1 (3)

Admission requirements

695

697

Applicants must meet the regular admission requirements of the Graduate School; hold a current middle school mathematics or elementary teaching license; and have at least three years of middle school mathematics or elementary teaching experience.

Content l	knowle	dge for teaching mathematics, 15 credi	ts
MATH	514	Alg Res Elm Mid Fnd Math Teach	3
	517	Num Concpts and Num Thry Teach	
	518	Rat Num Prop El Mid Fnd Tch	3
	542	1	3
	623	Prob Data Anal Stat Reasoning	3
Pedagog	ical kno	owledge for teaching mathematics,	
12 credit			
MATH	632	Assessment Math Education	3
	690	Curriculum Instruct Math Ed	3
	693	Teaching Math Prob Solving	
	695	Math Learners and Learning	3
Research	ı. 3 cred	dits	
MATH	694	Research Methods Math Educat	3
Leadersh	ip kno	wledge and skills, 6 credits	
MATH	697		3
	698	Math Teacher Leadership 2	3
			36 crs

Department of Physics and Astronomy

Revised:

MAJOR IN PHYSICS (BA/BS), 65-67 credits

PREFIX	NO	SHORT TITLE	CREDITS
Common	core,	53 credits	
CS	120	Computer Science 1	4
MATH	165	Calculus 1	4
	166	Calculus 2	4
	267	Calculus 3	4
PHYC	115	Career Issues	1
	120	General Physics 1	5
	122	General Physics 2	5
	260	Introduction to Modern Physics	4
	262	Modern Physics Laboratory	1
	330	Mechanics	3
	434	Thermal Physics	3
	450	Electricity and Magnetism 1	3
	452	Electricity and Magnetism 2	3
	464	Intro to Quant Mech	3
	482	Independent Studies in Physics (1-3)
	or		
	369	Professional Experience (1-3)	
	or		
	479	Practical Experience (1-3)	
	or		

HOND	400		2		251	T 1' ' 1 KD' D	2
HONR	499	Senior Honors Project (3)	3		351	Teaching in the K Primary Prog	3
PHYC	483	Seminar in Physics (1-2)	2		381	Early Childhood Language Arts	3
	485	Meas of Lrnng in Physics	1		400	Student Teaching: Pre-K	6
					401	Student Teaching: Kindergarten (6)	
			53 crs		or	G. 1 . T. 1: D: (6)	_
C1					402	Student Teaching: Primary (6)	6
		concentration		EDEO	442	Administration of EC Programs	3
		1: Physics (general), 12 credits	2	EDFO	420	Soc, Hist, Phil Found of Ed	3
PHYC	465	Quantum Mechanics	3	EDPS	260	Development Elementary	3
	C			EDDD	393	Educational Psych Elementary	3 3
		departmental courses as approved by		EDRD	204	Literature for Children	3
		epartmental advisor and the department			390	Early Emergent Literacy	3
chairper	son		9	area.	430	Corrective Reading	3
				GEOG	101	Earth Sea Sky: Geographic View (3)	
			12 crs	~~~~	or		_
~				GEOL	101	Planet Earth Geol Environment (3)	3
		2: Physics (applied), 14 credits		HIST	201	American History, 1492-1876	3
PHYC	354	Electronics 1	4	HSC	350	Elem Schl Hlth Prgrms	3
	356	Electronics 2	4	MATH	201	Num Oper Alg Reas Elem Teach	4
		departmental courses as approved by			202	Data Geo Meas Elem Teach	3
		epartmental advisor and the department			391	Teach Mathematics Elementary	3
chairper	son		6	MUSE	265	Music Basics for the Classroom	3
				PHYC	101	Phys Sci Concepts for Teachers (1-3)	3
			14 crs	SCI	398	Teach Sci in Early Pri Grds	3
				SPCE	201	Intro Stdnts with Except Nds	3
		3: Physics (medical), 12 credits			202	Legal and Proc Founds Spec Ed	3
APHY	315	Medical Physics 1	3		210	Thry and Pract in EC Spec Ed	3
	316	Medical Physics 2	3		215	Assess Yng Chldrn Exc Nds	3
		departmental courses as approved by			311	Dev Meth Infs and Todds Exc	3
		epartmental advisor and the department			312	Dev Meth PS Chldrn with Exc	3
chairper	son		6		331	Tech in Special Education (1-3)	1
					417	Pract: Inf Tods PS Spec Nds (1-6)	3
			12 crs	SS	398	Teaching SS EC Kind-Grade 3	3
		2	55-67 crs				113 crs
		C	05-07 CIS				113 018

Other APHY, ASTR, and PHYC courses at the 300-level and above, with the approval of the student's departmental advisor and the department chairperson, may be applied to all concentration areas.

TEACHERS COLLEGE

Interdepartmental

Revised:

DUAL MAJOR IN EARLY CHILDHOOD AND EARLY CHILDHOOD SPECIAL EDUCATION (BA/BS), 113 credits

PREFIX	NO	SHORT TITLE	CREDITS
AHS	100	Introduction to Art	3
BIO	102	Biol Concepts for Teachers	3
EDEL	200	Plan for Elem and EC Classroom	3
	231	Family and Community Relations	3
	244	Early and Elem Educ Soc Just	3
	252	Creative Exp for Yng Children	3
	301	Tchg in the Pre-K K Program	3

These major courses, AHS 100, BIO 102, GEOG 101, GEOL

101, HIST 201, MATH 201, MUSE 265, PHYC 101 also fill a University Core Curriculum requirement.

Department of Educational Psychology EDUCATIONAL PSYCHOLOGY (EDPS)

Revised:

601 Research in Educational Psychology (1-6) 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 program director.

A total of 12 credits may be earned, but no more than 6 in any on semester or term.

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

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

Prerequisite: EDPS 641 or EDPS 642.

Prerequisite recommended: EDPS 741 or EDPS 743.

Department of Elementary Education

Revised:

TEACHING MAJOR IN EARLY CHILDHOOD EDUCATION (Birth-Grade 3) (BA/BS), 102 credits

PREFIX	NO	SHORT TITLE	CREDITS
AHS	100	Introduction to Art	3
BIO	102	Biol Concepts for Teachers	3
EDEL	100	Educ in a Democratic Society	3
LDLL	200	Plan for Elem and EC Classroom	3
	244	Early and Elem Educ Soc Just	3
	351	Teaching in the K Primary Prog	3 3 3
	400	Student Teaching: Pre-K	5 6
	400		O
	or	Student Teaching: Kindergarten (6)	
	402	Student Teaching: Primary (6)	6
	442	Administration of EC Programs	3
EDFO	420	Soc, Hist, Phil Found of Ed	3
EDPS	260	Development Elementary	3
LDIS	393	Educational Psych Elementary	3
EDRD	204	Literature for Children (3)	3
LDKD	or	Literature for Clinidren (3)	
	318	Lit for Young Children (3)	3
	390	Early Emergent Literacy	3
	430	Asssess Interven Elem Schools	3
FCFC	265	Infant and Toddler Dvlp Educ	3
GEOG	101	Earth Sea Sky: Geographic View (3)	_
0200	or	Zaran sea say. Seograpine (10 ii (c)	
GEOL	101	Planet Earth Geol Environment (3)	3
HIST	201	American History, 1492-1876	3
HSC	350	Elem Schl Hlth Prgrms	3
MATH	201	Num Oper Alg Reas Elem Teach	4
	202	Data Geo Meas Elem Teach	3
	391	Teach Mathematics Elementary	3
MUSE	265	Music Basics for the Classroom	3 3) 3 3 3
PHYC	101	Phys Sci Concepts for Teachers (1-3) 3
SCI	398	Teach Sci in Early Pri Grds	3
SPCE	302	Tch Studs and Dis in Gen Ed	3
SS	398	Teaching SS EC Kind-Grade 3	3
Elective			
			90 crs
Concentr	ation		
EDEL	231	Family and Community Relations	3
	252	Creative Exp for Yng Children	3
	301	Tchg in the Pre-K K Program	3
	381	Early Childhood Language Arts	3 3 3 3
			12 crs
			102 crs

These major courses, AHS 100, BIO 102, GEOG 101 or GEOL 101, HIST 201, MATH 201, MUSE 265, PHYC 101 also fill a University Core Curriculum requirement.

TEACHING MAJOR IN ELEMENTARY EDUCATION (Grades K-6) (BA/BS), 102 credits

(Grades	11 0) (Dirips), 102 cicuis	
PREFIX	NO	SHORT TITLE	CREDITS
AHS	100	Introduction to Art	3
BIO	102	Biol Concepts for Teachers	3
EDEL	100	Educ in a Democratic Society	3
	200	Plan for Elem and EC Classroom	3
	244	Early and Elem Educ Soc Just	3
	300	Mgt, Org, and Instr Elem Clsrm	3
	350	Tchg in the Elem Ed Classroom	3
	463	Student Teaching: Elementary	6
	465	Student Teaching: Elementary Student Teaching: Elementary	6
EDFO	420	Soc, Hist, Phil Found of Ed	3
	260		
EDPS		Development Elementary	3
EDDD	393	Educational Psych Elementary	3
EDRD	204	Literature for Children	3
	300	RDG and LA Instruction	3
	350	Adv RDG and LA	3
	430	Assess Interven Elem Schools	3
GEOG	101 or	Earth Sea Sky: Geographic View (3)	
GEOL	101	Planet Earth Geol Environment (3)	3
HIST	201	American History, 1492-1876	3
HSC	350	Elem Schl Hlth Prgrms	3
MATH	201	Num Oper Alg Reas Elem Teach	4
	202	Data Geo Meas Elem Teach	3
	391	Teach Mathematics Elementary	3
MUSE	265	Music Basics for the Classroom	3
PHYC	101	Phys Sci Concepts for Teachers (1-3	
SCI	397	Teach Sci in the Elem Schl	3
SPCE	302	Tch Studs and Dis in Gen Ed	3
SS	397	Teaching SS in the Elemen Schl	3
Elective	371	reaching 55 in the Lichich 5cm	2
Elective			
			90 crs
Concentr	ation a	nrea	12 crs
			102 crs
These ma	ajor co	urses, AHS 100, BIO 102, GEOG 101	or
GEOL 10	01, HIS	ST 201, MATH 201, MUSE 265, PHY	C 101,
also fill a	Unive	ersity Core Curriculum requirement.	
		w Language, 12 credits	
		ers to work with non-native speakers o	
		iting, reading, and speaking skills. The	
		applied toward licensure in Teaching I	English
as a Seco	nd La	nguage as well.	
ENG	22.4		2
ENG	334	Eng Linguistics for Educators Theory and Bassarah in TESOI	3

The above requirements are for the English as a New

Practicum in TESOL

Theory and Research in TESOL

Methods and Materials in TESOL

3

3

3

12 crs

436

437

457

Language concentration area available for Teaching Elementary Education (Grades K-6) only.	Majors in		12 crs
Gifted and Talented, 12 credits EDPS 420 Intro Gifted Talented 421 Identif and Evaluation Gifted 425 Models and Strategies Gifted 411 Creative Thinking (3) or	3 3 3	Modern Languages, 12 credits Modern Languages: Classical culture concentration CC 301 Classical Lit in English Trans (3-6) 305 Classical Myth and Theory 6 credits from CC, GRK, and LAT courses	3 3 6
423 Social Emotional Needs Gifted (3)	3		12 crs
Kindergarten/Primary Education, 12 credits EDEL 231 Family and Community Relations 252 Creative Exp for Yng Children 440 Kindergarten Education EDRD 390 Early Emergent Literacy	3 3 3 3 3	Modern Languages: French concentration FR 202 Intermediate French 2 301 Conversation 302 Composition 3 credits from any other 300-400-level FR course	3 3 3 3 12 crs
Language Arts, 12 credits Exploration in depth of the theory and content of the literature, writing, and language. Courses selected fo concentration are particularly related to content, issue concerns of the elementary classroom.	r this	Modern Languages: German concentration GER 202 Intermediate German 2 301 Conversation 302 Composition 3 credits from any other 300-400-level GER course	3 3 3 12 crs
Required course EDEL 302 Dev Elem Eng La Multicult Lit	3	Modern Languages: Japanese concentration	12 013
Choose one of the following writing courses ENG 213 Intro to Digital Literacies (3) 285 Intro to Creative Writing (3)	3	Modern Languages: Japanese concentration JAPA 202 Intermediate Japanese 2 301 Advanced Japanese 1 302 Advanced Japanese 2	4 4 4 12 crs
Choose one of the following literature courses EDRD 318 Lit for Young Children (3) ENG 205 World Literature (3) 206 Reading Literature (3) 414 Young Adult Literature (3)	3	Modern Languages: Spanish concentration SP 202 Intermediate Spanish 2 301 Conversation and Composition 302 Composition and Grammar 3 credits from any other 300-400-level SP course	3 3 3 3
Choose one of the following language courses ENG 220 Language and Society (3) 320 Intro to Linguistics Science (3) 321 English Linguistics (3)	3	Classical Languages, 12 credits Classical Languages: Latin concentration	12 crs
Mathematics, 12 credits Designed to provide a mathematics background in th standards characterizing the K-12 mathematics curric These courses can be applied toward requirements for	culum.	LAT 202 Intermediate Latin 2 301 Introduction to Prose 1 302 Introduction to Poetry 1 3 credits from any other 300-400-level CC course	3 3 3 3 12 crs
Required courses MATH 310 Algebra Elem Mid Scl Teach 316 Num Thry Elem Mid Scl Teach 360 Geometry Elem Mid Scl Teach Choose from one of the following courses MATH 181 Elementary Probability Stats (3)	3 3 3	Psychology and Counseling, 12 credits Elementary teachers must understand the psychology children; their thinking, feelings, behavior, developm learning, the measurement of these characteristics, an environments in which they occur. These psychologic are essential for understanding, interacting with, and instructing children.	ent, d the
331 Technology Teach Assess Math (3)	3	12 credits from	

COBST 400 Fundamentals of Counseling (3) 420 Psychological Interventions (3) 420 Psychological Interventions (3) 420 Psychological Interventions (3) 420 Psychological Interventions (3) 420 Psychology (3) 420 Psychology (3) 435 Tests and Measurement (3) 435 Tests and Measurement (3) 435 Adolescent Psychology (3) 436 Social Psychology (3) 437 Psychological sciences (4) 436 Psychology (3) 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437 437						
Sequired			in their	own tea	aching of students in elementary grades	
Educational psychology EDPS 306 Behavior Analysis (3) 37			ъ.			
Educational psychology EDPS 306 Behavior Analysis (3) 345 Tests and Measurement (3) 350 Child Psychology (3) 351 Adolescent Psychology (3) 351 Adolescent Psychology (3) 352 Social Psychology (3) 353 Psychological science PSYS 213 Psych of Human Adjustment (3) 316 Social Psychology (3) 317 Personality (3) 318 Psychology (3) 319 Psychology (3) 310 Amer Econ Hist: 1:860-1990 (3) 310 Amer Econ Hist: 1:860-1990 (3) 311 Anni for the United States (3) 312 Psychology (3) 313 Amer Econ Hist: 1:860-1990 (3) 314 Anni for the United States (3) 315 Social Psychology (3) 316 Social Psychology (3) 317 Personality (3) 318 Psych of Human Adjustment (3) 319 Psych of Human Adjustment (3) 310 Amer Econ Hist: 1:860-1990 (3) 310 Amer Econ Hist: 1:860-1990 (3) 311 Anni for United States (3) 312 Psych of Human Adjustment (3) 313 Amer Econ Hist: 1:860-1990 (3) 314 Amer Econ Hist: 1:860-1990 (3) 315 Geog United States and Canada (3) 316 Social Psychology (3) 317 Personality (3) 318 Psych of Human Adjustment (3) 319 Pollama (3) 310 History (3) 320 University Core Curriculum to satisfy prerequisites. 331 Latin American and Caribbean (3) 333 Geography (6) Indiana (3) 342 Anni American and Caribbean (3) 343 Anni American and Caribbean (3) 344 Anni of the United States (3) 345 Geography (6) Indiana (3) 346 HIST 100 Introduction to US History (3) 347 Psychology (3) 348 Anni of the United States (3) 349 Non-Western Civilizations (3) 340 American History, 1492-1876 (3) 341 State and Local Politics (3) 342 Problems (3) 343 Anni of the United States (3) 344 Anni of the United States (3) 345 Geography (6) Indiana (3) 346 HIST 100 Introduction to US History (6) Introduction to US History (7) Introduction to US Hi	, ,					2
EDPS 306 Behavior Analysis (3)	4/0 Cross-Cuit Couns	seling (3)	55	392	Teaching State and World Conns	3
345 Tests and Measurement (3) 350 Child Psychology (3) 351 Adolescent Psychology (3) 352 Adolescent Psychology (3) 353 Adolescent Psychology (3) 354 Anth, Cult, and Globalization (3) 355 Adolescent Psychology (3) 356 Social Psychology (3) 317 Personality (3) 318 Social Psychology (3) 319 Personality (3) 310 Amer Econ Hist 2: 1860-1990 (3) 310 Amer Econ Hist 2: 1860-1990 (3) 311 Amer Econ Hist 2: 1860-1990 (3) 312 GEOG 150 Global Geography (3) 315 Geog United States and Canaba (3) 316 Social Psychology (3) 317 Personality (3) 318 Early Emergent Literacy Elem Sch (3) 319 Versources Learners 3 310 American Adocard Devices (3) 310 American and Caribbean (3) 311 Latin American and Caribbean (3) 311 Latin American and Caribbean (3) 312 Geography (6) 313 Geography (7) 314 American History (7) 315 Global Geography (3) 316 Social Psychology (3) 317 Versource Curriculum to satisfy prerequisites. 318 HIST 100 Introduction to US History (3) 319 Non-Western Civilizations (3) 310 American History, 1492-1876 (3) 311 American History, 1492-1876 (3) 311 Versource Curriculum to satisfy prerequisites. 310 American History, 1492-1876 (3) 311 Versource Curriculum to satisfy prerequisites. 310 American History, 1492-1876 (3) 311 Versource Curriculum to satisfy prerequisites. 311 Versource Curriculum to satisfy prerequisites. 312 Versource Curriculum to satisfy prerequisites. 313 Soc Omparative Political Systems (3) 314 Versource Curriculum to satisfy prerequisites. 315 Versource Curriculum to satisfy prerequisites. 316 Versource Curriculum to satisfy prerequisites. 317 State and Local Politics (3) 318 Versource Curriculum to satisfy prerequisites. 319 Versource Curriculum to satisfy prerequisites. 320 Versource Curriculum to satisfy prerequisites. 321 Versource Curriculum to satisfy prerequisites. 3223 Versource Curriculum to satisfy prerequisites. 323 Versource Curriculum to satisfy prerequisites. 324 Problems in Public Policy (3) 325 Versource Curriculum to satisfy prerequisites. 326 Versource Curriculum to satisfy prevaled to the	Educational psychology		9 credits	s from a	three different subjects	
350 Child Psychology (3) 111 Anth. Cult. and Globalization (3) 342 Anth of the United States (3) Psychological science ECON 116 Survey of Economic Ideas (3) Psychology (3) 279 Problems of Emerging Nations (3) 310 Amer Econ Hist 2: 1860-1990 (3) 310 Amer Econ Hist 2: 1860-1990 (3) 311 Personality (3) 12 GEOG 150 Global Geography (3) Geography (4)	EDPS 306 Behavior Analysi	is (3)	ANTH	101	Intro to Cultural Anthropology (3)	
Social Psychology (3) Social Social Psychology (3) Social Social Psychology (3) Social Region	345 Tests and Measur	rement (3)		103	Archaeology and Culture (3)	
Psychological science PSYS 213 Psych of Human Adjustment (3) 279 Problems of Emerging Nations (3) 316 Social Psychology (3) 317 Personality (3) 12 GEOG 150 Global Geography (3) 318 Personality (3) 12 GEOG 150 Geog United States and Canada (3) 319 Personality (3) 12 GEOG 150 Geog United States and Canada (3) 310 Latin American and Caribbean (3) 311 Latin American and Caribbean (3) 311 Latin American and Caribbean (3) 312 Credits 313 Latin American and Caribbean (3) 314 HIST 100 Introduction to US History (3) 315 Non-Western Civilizations (3) 316 Geography of Indiana (3) 317 Personality Ore Curriculum to satisfy prerequisites. 418 HIST 100 Introduction to US History (3) 419 Non-Western Civilizations (3) 410 American History, 1492-1876 (3) 411 History of Indiana (3) 411 History of Indiana (3) 412 History of Indiana (3) 413 American National Government (3) 414 History of Indiana (3) 415 History of Indiana (3) 415 History of Indiana (3) 416 History of Indiana (3) 417 Population to US History (3) 418 History of Indiana (3) 419 History of Indiana (3) 410 American National Government (3) 410 American History, 1492-1876 (3) 411 History of Indiana (3) 410 American History, 1492-1876 (3) 411 History of Indiana (3) 411 History of Indiana (3) 411 History of Indiana (3) 412 History of Indiana (3) 413 American History, 1492-1876 (3) 415 History of Indiana (3) 415 History of Indiana (3) 416 History of Indiana (3) 417 History of Indiana (3) 418 History of Indiana (3) 419 History of Indiana (3) 419 History of Indiana (3) 410 History of Indiana (3) 411 History of Indiana (3) 411 History of Indiana (3) 411 History of Indiana (3) 412 History of Indiana (3) 412 History of Indiana (3) 413 History of Indiana (3) 414 History of Indiana (3) 415 History of Indiana (3) 415 History of Indiana (3) 415 History of Indiana (3) 416 History of Indiana (3) 417 History of Indiana (3) 418 History of Indiana (3) 419 History of Indiana (3) 419	350 Child Psychology	7 (3)		105	Introduction Biological Anth (3)	
Psychological science PSYS 213 Psych of Human Adjustment (3) 279 Problems of Emerging Nations (3) 316 Social Psychology (3) 12 GEOG 150 Global Geography (3) 317 Personality (3) 12 GEOG 150 Global Geography (3) 318 Personality (3) 12 GEOG 150 Global Geography (3) 319 Students electing PSYS courses must take PSYS 100 for University Core Curriculum to satisfy prerequisites. Students of Reading for Elementary concentration/license, 12 credits Federal of Reading for Elementary concentration/license, 12 credits EDRD 427 Total Radge to Diverse Learners 3 Afon Reading Strategies and Pract 6 Reading Strategies and Pract 6 Afon Reading Strategies Afon Reading Afon Read	351 Adolescent Psych	nology (3)		111	Anth, Cult, and Globalization (3)	
PSYS 213 Psych of Human Adjustment (3) 316 Social Psychology (3) 12 GEOG 150 Global Geography (3) Geog United States and Canada (3) 12 crs 351 Latin American and Caribbean (3) Geography (3) Geography (3) Geography (3) Geography (3) 12 crs 351 Latin American and Caribbean (3) Geography (3) Geography of Indiana (3) HIST 100 Introduction to US History (3) HIST 100 In				342	Anth of the United States (3)	
316 Social Psychology (3) 317 Personality (3) 12 GEOG 150 Global Geography (3) 12 crs 311 Latin American and Caribbean (3) Students electing PSYS courses must take PSYS 100 for University Core Curriculum to satisfy prerequisites. Teacher of Reading for Elementary concentration/license, 12 credits Required courses EDRD 427 Tchg Rdg to Diverse Learners 3 450 Reading Strategies and Pract 6 EDRD 320 Disciplinary Literacy Elem Sch (3) EDRD 320 Disciplinary Literacy Elem Sch (3) 390 Early Emergent Literacy (3) 3 Science, 12 credits Rediction of Courses that cover life, earth, and physical sciences. Students seeking this concentration learn to use scientific knowledge, skills, and habits of mind to solve problems and think critically about the natural world. If GEOL 101 was be selected for the University Core Curriculum 310 Amer Econ Hist 2: 1860-1990 (3) Global Geography (1) American History (3) HIST 100 Introduction to US History (3) HIST 100 Introduction to US History (3) Amer Econ Hist 2: 1860-1990 (3) Factor and Caribbean (3) Factor American History (3) Fundamical (3) Fundamical (4) Fundamic	Psychological science		ECON	116	Survey of Economic Ideas (3)	
317 Personality (3) 12 GEOG 150 Global Geography (3) Geog United States and Canada (3) 350 Geog United States and Canada (3) 350 Geography of Indiana (3) 450 Introduction to US History (3) 450 Introduction (3) 450 Introduction to US History (4) 450 Introduction	PSYS 213 Psych of Human	Adjustment (3)		279	Problems of Emerging Nations (3)	
Students electing PSYS courses must take PSYS 100 for University Core Curriculum to satisfy prerequisites. Teacher of Reading for Elementary concentration/license, 12 credits	316 Social Psycholog	y (3)		310	Amer Econ Hist 2: 1860-1990 (3)	
Students electing PSYS courses must take PSYS 100 for University Core Curriculum to satisfy prerequisites. University Core Curriculum to satisfy prerequisites. HIST 100 Introduction to US History (3) Teacher of Reading for Elementary concentration/license, 12 credits Required courses EDRD 427 Tchg Rdg to Diverse Learners 3 450 Reading Strategies and Pract 6 Choose 3 credits from the following courses EDRD 320 Disciplinary Literacy Elem Sch (3) EDRD 320 Disciplinary Literacy Elem Sch (3) Socian Psychology (3) EDRD 320 Disciplinary Literacy Elem Sch (3) Socian Psychology (3) EDRD 320 Disciplinary Literacy Elem Sch (3) Socian Psychology (3) EDRD 320 Disciplinary Literacy Elem Sch (3) Socian Psychology (3) EDRD 320 Disciplinary Literacy Elem Sch (3) Socian Psychology (3) EDRD 320 Disciplinary Literacy Elem Sch (3) Socian Psychology (3) Formula (3) Latin American and Caribbean (3) American History (1492-1876 (3) 202 US History, 1492-1876 (3) HIST 100 Introduction to US History (3) American History, 1492-1876 (3) 202 US History, 1492-1876 (3) American National Government (3) State and Local Politics (3) 293 International Relations (3) PSYS 100 Intro to Psychological Science (3) 316 Social Psychology (3) Social Psychology (3) Formula (4) Formula (4) Formula (5) Formula (5) Formula (5) Formula (5) Formula (7) Formul	317 Personality (3)	12	GEOG	150	Global Geography (3)	
Students electing PSYS courses must take PSYS 100 for University Core Curriculum to satisfy prerequisites. HIST 100				350	Geog United States and Canada (3)	
University Core Curriculum to satisfy prerequisites. Teacher of Reading for Elementary concentration/license, 12 credits Required courses EDRD 427 Tchg Rdg to Diverse Learners 3 450 Reading Strategies and Pract 6 293 International Relations (3) Choose 3 credits from the following courses EDRD 320 Disciplinary Literacy Elem Sch (3) 390 Early Emergent Literacy (3) 3 20		12 crs		351	Latin American and Caribbean (3)	
Teacher of Reading for Elementary concentration/license, 12 credits Required courses EDRD 427 Tchg Rdg to Diverse Learners 3 450 Reading Strategies and Pract 6 280 Comparative Political Systems (3) EDRD 320 Disciplinary Literacy Elem Sch (3) 390 Early Emergent Literacy (3) 12 crs Science, 12 credits Includes a broad range of courses that cover life, earth, and physical sciences. Students seeking this concentration learn to use scientific knowledge, skills, and habits of mind to solve problems and think critically about the natural world. If GEOL 101 was selected for the University Core Curriculum requirement, then GEOL 201 must be selected for the	Students electing PSYS courses m	ust take PSYS 100 for		353	Geography of Indiana (3)	
Teacher of Reading for Elementary concentration/license, 12 credits 202 US History, 1492-1876 (3) 202 US History, 1877 to Present (3) 415 History of Indiana (3) 415 EDRD 427 Tchg Rdg to Diverse Learners 3 237 State and Local Politics (3) 450 Reading Strategies and Pract 6 280 Comparative Political Systems (3) 293 International Relations (3) 293 International Relations (3) 293 International Relations (3) 294 Problems in Public Policy (3) 295 Into 1 Psychological Science (3) 316 Social Psychology (3) 296 Early Emergent Literacy (3) 3 316 Social Psychology (3) 297 Science, 12 credits 298 International Relations (3) 298 Psys 100 Intro to Psychology (3) 298 Psychology (3) 299 Principles of Sociology (3) 299 Principles of Sociology (3) 299 Principles of Sociology (3) 290 Princ	University Core Curriculum to sat	isfy prerequisites.	HIST	100	Introduction to US History (3)	
Required courses 202 US History, 1877 to Present (3) 415 History of Indiana (3)				198		
Required courses EDRD 427 Tchg Rdg to Diverse Learners 3 450 Reading Strategies and Pract 6 Choose 3 credits from the following courses EDRD 320 Disciplinary Literacy Elem Sch (3) 390 Early Emergent Literacy (3) Science, 12 credits Includes a broad range of courses that cover life, earth, and physical sciences. Students seeking this concentration learn to use scientific knowledge, skills, and habits of mind to solve problems and think critically about the natural world. If GEOL 101 was selected for the University Core Curriculum requirement, then GEOL 201 must be selected for the	Teacher of Reading for Elementar	y concentration/license,			American History, 1492-1876 (3)	
Required courses EDRD 427 Tchg Rdg to Diverse Learners 3 237 State and Local Politics (3) EDRD 450 Reading Strategies and Pract 6 280 Comparative Political Systems (3) Choose 3 credits from the following courses 342 Problems in Public Policy (3) EDRD 320 Disciplinary Literacy Elem Sch (3) 3 316 Social Psychology (3) EDRD 390 Early Emergent Literacy (3) 3 316 Social Psychology (3) 12 crs 421 Racial and Cultural Minor US (3) Science, 12 credits Family (3) 9 Science, 12 credits Students seeking this concentration learn to use scientific knowledge, skills, and habits of mind to solve problems and think critically about the natural world. If GEOL 101 was selected for the University Core Curriculum requirement, then GEOL 201 must be selected for the University Core Curriculum requirement, then GEOL 201 must be selected for the University Core Curriculum remains and think critically about the natural world. If GEOL 101 must be selected for the University Core Curriculum requirement, then GEOL 201 must be selected for the University Core Curriculum remains and think critically about the natural world. If GEOL 201 must be selected for the University Core Curriculum requirement, then GEOL 201 must be selected for the University Core Curriculum remains under the minimum technological benchmarks expected of all future	12 credits			202		
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	concentration.		teachers	.		

Choose a minimum of 12 credits from the following courses:

Choose a minimum of 12 credits from the following courses:				
ASTR	101	Astro Mat for Teacher (3)		
	or			
	120	The Sun and Stars (3)		
BIO	112	Principles of Biology 2 (4)		
CHEM	100	People and Chemistry (3)		
	or			
	101	Gen, Org, Biochem and Hlth Sci (5)		
GEOL	101	Planet Earth Geol Environment (3)		
	or			
	201	Earth, Life, and Time (3)	12	
			12 crs	

State/World Connections, 12 credits

Includes a broad range of courses from the social sciences chosen to help prepare teachers for educating students in a world of ever-expanding worldwide connections. Students selecting this concentration will learn how to use this content

"Technology is human innovation in action" (Technology for All. n.d., p.16). This action facilitates the generation of knowledge that leads to the development of solutions that assist and extend our capabilities as people.

Required courses

EDTE	350	Curr Integration of Tech	3
	470	Technology Policy and Ethics	3
TDPT	100	Technology and Society	3

Choose 3	cradit	s from the following courses	
Choose 3 credits from the following courses			
CS	110	Intro Comp Sci and Web Prog (3)	
EDCU	331	Public School Curriculum (3)	
EDRD	445	Computers in Rdg Instruction (3)	
EDTE	352	Multi Web Design and Dev Ed (3)	
	355	Lrn and Tchng w Emerging Tech (3)	
	360	Studies in Ed Tech (3)	
	365	Visual and Digital Literacies (3)	
	480	Internship in Educational Tech (2-4)	

12 crs

TDPT	400	Capstone in Technology (3)	3
			12 crs

Wellness, 12 credits

Wellness: Nutrition and family concentration

Designed to provide an integrated approach to understanding relationships among wellness, nutrition, and the family environment. The teacher is prepared to identify children at risk and apply problem-solving skills using appropriate community health resources.

Required courses

rtequired	Cours	25	
FCFC	250	Family Relations	3
NUTR	240	Nutrition for Educators	3
Choose 6	credit	s from the following courses	
FCFC	202	Child and Family Wellness (3)	
	380	Parenting (3)	
FCFN	110	Prin Food Prep and Food Serv (3)	
	395	Food and Culture (3)	6

NUTR 240 substitutes for NUTR 340 for prerequisite purposes.

Wellness: Physical education concentration

Provides both content knowledge and practical experiences in designing and implementing a developmentally appropriate physical education program on the elementary school level.

HSC	363	Current Issue Admin Coord H PE	3
PEP	227	Intro Adapted Physical Ed Act	3
	291	Motor Development and Learn	3
	394	Teaching Phys Educ in Elem Sch	3
			12 crs

See Teachers College Interdepartmental for Dual Major in Elementary and Special Education.

EDUCATION: ELEMENTARY (EDEL)

Correction:

244 Early and Elementary Education for Social Justice (3)

A broad understanding of social, economic, cultural, and linguistic diversity within the context of early and elementary Education in today's society.

Prerequisite: EDEL 100 with a minimum grade of C.

Laura Helms, Director Executive Director of Academic Services Associate Dean, University College