BALL STATE UNIVERSITY

ACADEMIC POSTING

2017-2018

VOLUME XLVIII – 6

April 20, 2018

COLLEGE OF A DOLLEGGELDE AND

This posting may contain all or part of the following: new, revised, and dropped programs, courses and prefixes. The posting period begins April 20, 2018. 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, 2018 is Fall Semester 2019.*

PENDING ICHE APPROVAL

TEACHING MAJOR IN COMPUTER SCIENCE,

71-72 crs

71-72 cr	edits		,	COLI	LEG	E OF ARCHITECTURE	E AND
PREFIX	NO	SHORT TITLE	CREDITS	PLAN	ININ	NG	
CS	120 121	Comp Sci 1: Prog Fundamentals Computer Science 2	4 4	Depar	tme	nt of Architecture	
	124 or	Discrete Structures (3)		Revise	d:		
MATH	215	Discrete Systems (4)	3-4				
CS	200	Computers and Society	3	MAJOR	IN A	RCHITECTURE (BA/BS), 87 cred	lits
	222	Advanced Programming	3				
	224	Des and Analy of Algorithms	3	PREFIX	NO	SHORT TITLE	CREDITS
	230	Computer Org and Arch	3	1 D G11	100		
	416	Computer Networks (3)		ARCH	100	Introduction to Architecture	2
	or	•			201	Architectural Design	4
CT	210	Fundamentals of Network Design (3)		202	Architectural Design	4
	or				214	Arch Build Tech 1	3
	310	Internetwork Design Admin (3)			218	Structural Systems 1	3
	or	_			229	History of Architecture 1	3
CIS	317	Computer Networks for Business (3	3) 3		251	Social and Env Justice in Dsgn	3
CS	419	Operating Systems	3		263	Digital Design	3
					273	Environmental Systems 1	3
			29-30 crs		301	Architectural Design	5
					302	Architectural Design	5
Professio	onal ed	lucation sequence, 42 credits			314	Arch Build Tech 2	3
					318	Structural Systems 2	3
PREFIX	NO	SHORT TITLE	CREDITS		329	History of Architecture 2	3
					340	Intro to HP for Architects	3
CS	150	Intro to Teaching CS	3		373 401	Environmental Systems 2	3 5
	393	Teaching CS in Middle Schools	3		401	Architectural Design	
	395	Teaching CS in Secondary Schools			410	Architectural Design Critical Practice	6 3
EDFO	420	Soc, Hist, Phil Found of Ed	3	CAP	101		3
EDJH	385	Prin of Tchng in Mid Schl	3	CAP	101	Environment Design and Plan 1	3
EDMU	205	Intro to Multicul Ed	3		161	Environment Design and Plan 2	2
EDPS	251	Development Secondary	3			Design Communications Media 1	
	390	Educational Psychology	3	LA	162 100	Design Communications Media 2 Intro Landscape Architecture	2
EDSE	320	Read Div Sec Cont Class	3	LA PLAN	100	Intro Urb Planning and Dev	2 2
	380	Princ of Tchng in Sec School	3			electives in ARCH, CAP, LA, PLAN	
Student	teachin	ng	12	o credits	110111	eiccuves III ARCH, CAF, LA, PLAN	,

CM, or ID 6
87 crs

Elective credits may be waived by completing an approved minor.

Not open to environmental design majors.

Department of Construction Management and Interior Design

Revised:

MAJOR IN INTERIOR DESIGN (BA/BS), 87 credits

PREFIX	NO	SHORT TITLE	CREDITS
AHS	100	Introduction to Art	3
IDES	101	Rapid Visualization	3
IDLS	110	Design Fundamentals	3
	111	Graphic Communication 1	3
	112	Design Presentation	3
	114	Sustainable Interiors	3
	115	Interior Materials and Appl	3
	120	Graphic Communication 2	3
	210	Hist and Theoretical Studies 1	3
	221	Graphic Communication 3	3
	222	Interior Design Studio 1	3
	224	Interior Design Studio 2	3
	225	Hist and Theoretical Studies 2	3
	228	Graphic Communication 4	3
	261	Universal Design	3
	300	ID Professional Practice	3
	314	Color and Light in ID	3 3 3 3
	320	Furniture Design	3
	324	Interior Design Studio 3	3
	334	Interior Design Studio 4	3
	362	Int Const Build Systems	3 3 3
	369	Internship in Interior Design (1-6)	5
	400	NCIDQ Preparation	1
	420	ID Programming	3
	424	Interior Design Studio 5	3
	484	Interior Design Studio 6	3
	707	interior Design Stadio o	3
6 credits	from		
ACC	201	Principles of Accounting 1 (3)	
ACR	221	Introduction to Metals (3)	
	231	Introduction to Glass (3)	
AFA	101	Drawing 1 (3)	
ARCH	100	Introduction to Architecture (2)	
	329	History of Architecture 2 (3)	
CM	104	Introduction to Construction (3)	
	180	Construction Documents (3)	
	222	Technical Presentation (3)	
	250	Construction Methods Matls 1 (3)	
	299X	Experimental Development Topic (3 or 6)
ECON	116	Survey of Economic Ideas (3)	
IDES	299	Special Topics in ID (1-6)	

	490	Independent Study (1-3)	
MKG	300	Principles of Marketing (3)	6
			87 crs

Students are placed in the pre-interior design program for the first two years. All pre-interior design students are required to participate in *Portfolio Review* during the second semester of the second year to be admitted to the 300-level courses and higher. Students will be admitted to the interior design program, upon successful completion of the review. See interior design Web site for more details. A grade of *C* or better is required in all required courses. Students with grade of *C*- or lower need to retake the course. Students are required to complete an exit survey prior to graduation. Students may not progress through the program until they satisfy the requirements.

MINOR IN INTERIOR DESIGN, 24 credits

PREFIX	NO	SHORT TITLE	CREDITS
Required	d cours	es, 15 credits	
CAP	162	Design Communications Media 2 (2)
	or		
IDES	101	Rapid Visualization (3)	2-3
IDES	110	Design Fundamentals (3)	
	or		
CAP	102	Environment Design and Plan 2 (3)	3
IDES	111	Graphic Communication 1	3 3 3
	115	Interior Materials and Appl	3
	222	Interior Design Studio 1 (3)	
	or		
ARCH	201	Architectural Design (4)	3-4
			15 crs
Choose 9	9 addit	ional credits from the following:	
IDES	112	_	
	114	Sustainable Interiors (3)	
	120		
	210	Hist and Theoretical Studies 1 (3)	
	221	Graphic Communication 3 (3)	
	224	Interior Design Studio 2 (3)	
	225	Hist and Theoretical Studies 2 (3)	
	228	Graphic Communication 4 (3)	
	261	Universal Design (3)	
	314	Color and Light in ID (3)	

Students completing this minor must receive C or better grades in all interior design courses. Students receiving a grade lower than C are required to retake the course.

Furniture Design (3)

Interior Design Studio 3 (3)

Int Const Build Systems (3)

9

24 crs

320 324

362

INTERIOR DESIGN (IDES)

New:

299 Special Topics in Interior Design (1-6) This course will be used for offering topics of faculty interest and field study. A total of 6 credits may be earned.

490 Independent Study (1-3) Independent study in Interior Design with guidance by faculty member. Written proposal must be approved by program directory prior to term of study. A total of 6 credits may be earned.

Dropped/replaced:

Dropped courses on left; replacement courses on right For dropped/replaced courses that also have revisions, the old courses are notated in parenthesis.

FCID $101 \rightarrow IDES 101$ FCID $110 \rightarrow IDES 110$ FCID 111 \rightarrow IDES 111 FCID $112 \rightarrow IDES 112$ FCID $115 \rightarrow IDES 115$ FCID $120 \rightarrow IDES 120$ FCID 210 \rightarrow IDES 210 FCID 222 \rightarrow IDES 222 FCID 221 \rightarrow IDES 221 FCID 224 \rightarrow IDES 224 FCID 225 \rightarrow IDES 225 FCID 228 \rightarrow IDES 228 FCID 261 \rightarrow IDES 261 FCID $300 \rightarrow IDES 300$ FCID 314 \rightarrow IDES 314 FCID $320 \rightarrow IDES 320$ FCID $324 \rightarrow IDES 324$ FCID $334 \rightarrow IDES 334$ FCID $362 \rightarrow IDES 362$ FCID $369 \rightarrow IDES 369$ FCID $400 \rightarrow IDES 400$ FCID $420 \rightarrow IDES 420$ FCID $424 \rightarrow IDES 424$ FCID $484 \rightarrow IDES 484$ FCID $604 \rightarrow IDES 604$ FCID $606 \rightarrow IDES 606$ FCID $610 \rightarrow IDES 610$ FCID $612 \rightarrow IDES 612$ FCID $614 \rightarrow IDES 614$ FCID $613 \rightarrow IDES 613$ FCID $616 \rightarrow IDES 616$ FCID $619 \rightarrow IDES 619$ FCID $620 \rightarrow IDES 620$

114 (FCID 220) Sustainable Interiors (3) Focused on the examination and application of the appropriate sustainable/green principles in interior design. Emphasis will be on Leadership in Energy & Environmental Design for Contract Interiors Green Building Rating SystemsTM (*LEED*-

CI), a national certification program by the U.S. Green Building Council.

Department of Landscape Architecture

New:

514 Landscape Architectural Engineering 4 (3) Advanced methods of landscape architecture engineering and construction/implementation practices. Subjects include advanced applications for construction documentation, Building/Site/Land Information modeling (e.g., BIM); documented sustainable design criteria/guidelines/techniques (e.g., SITES); landscape construction management; and post-construction/-occupancy evaluation. Course topics may include advanced sustainable site construction and landscape engineering applications for lighting, water, material selection, and landscape management.

Prerequisite: LA 313 or permission of the instructor. *Open only to* landscape architecture 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: ACC 201 and 202 with grades higher than C-

302 Intermediate Accounting 2 (3) A continuation of ACC 301. Includes such topics as accounting for income taxes, pensions and post-retirement benefits, leases and other external reporting concerns.

Prerequisite: ACC 301 with grade higher than C-.

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: ACC 301 with grade higher than *C*-. *Parallel:* ISOM 225.

410 Advanced Topics in Taxation (3) A study of federal taxes on the business income of corporations, partnerships, exempt entities, and estates and trusts. Includes the use of tax reference materials and tax services.

Prerequisite: ACC 401 with a grade higher than *C*-. *Parallel*: ACC 302.

451 Auditing Principles and Practices (3) Auditing of financial data and related controls from the perspective of internal and external auditors. Topics include internal control procedures, auditing procedures and standards, as well as reporting.

Prerequisite: ACC 302 with grade higher than C-.

501 Financial Accounting (3) Explores fundamental issues in financial accounting and external reporting from a manager's perspective. Develops skills necessary to interpret financial information.

Prerequisite: full admission to a graduate or certification program of the university.

Not open to students who have credit in ACC 201 or equivalent.

Not applicable toward the credits required for Master of Science in Accounting and Master of Business Administration.

Department of Economics

Revised:

MAJOR IN MATHEMATICAL ECONOMICS (BA/BS), 52-55 credits

PREFIX	NO	SHORT TITLE	CREDITS
ECON	201	Elementary Microeconomics	3
	202	Elementary Macroeconomics	3
	301	Intermediate Microeconomics	3
	302	Intermediate Macroeconomics	3
	221	Business Statistics (3)	
	or		
MATH	221	Probability and Statistics (3)	
	or		
	321	Mathematical Statistics (4)	3-4
	165	Calculus 1	4
	166	Calculus 2	4
	215	Discrete Systems	4
	217	Linear Algebra	4
	259	Intro to Mathematical Software	3
9 credits	from		
ECON fr	om 300	0- and 400-level must include	
ECON	421	Mathematical Economics (3)	
	or		
	424	Econometrics (3)	9
6-7 credi	ts from	i e	
MATH 2	67, 320	0, 335, 351, 362, 363, 374, 422,	
428, 429,	, 454, 4	56, 457, 465, 470, and 471	6-7
2.4 11			
3-4 credi			
		0, 321, 335, 351, 362, 363, 374,	
		54, 456, 457, 465, 470, and 471	2.4
(ECON 3	000-400	Jievei)	3-4

MATH 161 Applied Calculus 1 (3) and 162 Applied Calculus 2 (3) may substitute for MATH 165 and 166 along with another 2 credits of MATH from the approved electives to complete the 52-credit total requirement. All mathematical economics majors will be required to take the Major Field Test in Economics before graduation.

ECONOMICS (ECON)

Revised:

424 Introduction to Econometrics (3) Applied statistical methods to economics. Emphasizes constructing, estimating, and testing economic models. Topics include multiple regression analysis, advanced regression techniques, time series analysis, and forecasting. Consider specific problems that arise in applying these topics and business data.

Prerequisite: ECON 201 with a grade higher than *C*-; ECON 202; ECON 221 or MATH 221 with a grade higher than *C*- or permission of the department chairperson.

509 Survey of Economics (3) Micro- and macroeconomics for those without economics credit at the undergraduate level. Satisfies the prerequisites of courses requiring ECON 201 and 202.

Not open to students who have credit in ECON 201, 202. Not applicable toward the credits required for Masters of Science in Accounting and Master of Business Administration.

Department of Finance and Insurance

FAMILY AND CONSUMER SCIENCES (FCS)

Dropped:

135 Financial Literacy (1)

Department of Information Systems and Operations Management

Revised:

MAJOR IN COMPUTER INFORMATION SYSTEMS (BA/BS), 69 credits

PREFI	X NO	SHORT TITLE	CREDITS
Miller (College	of Business core, 45 credits	
ACC	201	Principles of Accounting 1	3
	202	Principles of Accounting 2	3

BL	260	Principles of Business Law	3
ECON	201	Elementary Microeconomics	3
	202	Elementary Macroeconomics	3
	221	Business Statistics	3
FIN	300	Principles of Finance	3
ISOM	125	Micro Apps for Business	3 3 3 3 3 3 3 3 3 3
	210	Business Information Systems	3
	249	Foundations of Business Comm	3
	351	Operations Management	3
MATH	132	Brief Calculus	3
MGT	300	Managing Behavior in Org	3
	491	Bus Policy and Strategy Mgt	3
MKG	300	Principles of Marketing	3
			45 crs
Informat	ion sys	stems core, 21 credits	45 crs
Informat CIS	tion sys	stems core, 21 credits Business Systems App Dev	
	•	Business Systems App Dev	3
	226	Business Systems App Dev Computer Networks for Business	3 3
	226 317	Business Systems App Dev Computer Networks for Business Information Systems Security	3 3 3
	226 317 410	Business Systems App Dev Computer Networks for Business Information Systems Security Business Proc Analysis & Des	3 3 3
	226 317 410 412	Business Systems App Dev Computer Networks for Business Information Systems Security Business Proc Analysis & Des Database Management Systems	3 3 3 3 3
	226 317 410 412 413	Business Systems App Dev Computer Networks for Business Information Systems Security Business Proc Analysis & Des	3 3 3
CIS	226 317 410 412 413 490	Business Systems App Dev Computer Networks for Business Information Systems Security Business Proc Analysis & Des Database Management Systems Information Systems Integ Proj	3 3 3 3 3 3

Electives	(choose	one course	for 3	credits)

BA	305	Intro to Business Analytics (3)	
	310	Data Visualization (3)	
	436	Data Warehouse and Bus Intel (3)	
CIS	421	Network & Security Management (3)	
	422	Health Care Inform Systems (3)	
	450	E-Commerce Design/Applications (3)	
ISOM	369	Industry Internship (3)	3
			69 crs

69 crs

21 crs

To pursue this program, students must have sufficient mathematical preparation to meet the prerequisite for ECON 221. The prerequisite for ECON 221 is a *C* or better grade in MATH 111 or a passing grade (*D*- or better) in MATH 132, 161, 162, 165, or 166 and a *C* or higher grade in ISOM 125. MATH 132 simultaneously substitutes for the University Core Curriculum math requirement.

Minor in Business Administration for Computer Technology, 21 credits

PREFIX	NO	SHORT TITLE	CREDITS
CIS	226	Business Systems App Dev	3
	413	Database Management Systems	3
ECON	116	Survey of Economic Ideas	3
ISOM	125	Micro Apps for Business	3
	210	Business Information Systems	3
	300	Project Management	3
MGT	300	Managing Behavior in Org	3

MINOR IN BUSINESS ANALYTICS, 15 credits

PREFIX	NO	SHORT TITLE	CREDITS
BA	305	Intro to Business Analytics	3
	345	Data Mining for Bus Analytics	3
CIS	413	Database Management Systems	3
6 credits	from		
BA	310	Data Visualization	3
	436	Data Warehouse and Bus Intel	3
CIS	422	Health Care Info Sys	3
ECON	330	Sports Econ	3
	348	Health Economics	3
			1.5

This minor is open only to students in the Miller College of Business or by permission of the department chairperson. CIS 226 is required for CIS 413. ISOM 210 is required for BA 310 and CIS 422. ECON 201 and 221 are required for ECON 330 and 348.

Dropped:

CERTIFICATE IN BUSINESS TECHNOLOGY, 15 credits

BUSINESS ANALYTICS (BA)

New:

310 Data Visualization for Business Analytics (3)

Introduces students to data visualization for business analytics and intelligence, and includes both the principles and techniques of creating insightful visualizations. Students will learn the value of visualization, specific techniques in information visualization and scientific visualization, and understand how to best leverage visualization methods.

Prerequisite: ISOM 210 or permission of the department chairperson.

Revised:

305 Introduction to Business Analytics (3) Introduction to data-driven business management analytics. Provides the business rationale for leveraging analytics to improve organizational performance and the challenges businesses face on analytics. Introduces the basis of data science and business analytics for handling massive databases. Covers concepts such as ethical use of data, data mining, data management, the use of key performance indicators, dashboards and scorecards for performance management, text and web mining, and big data analytics.

Prerequisite: ECON 221 or equivalent with a grade higher than *C*- or permission of the department chairperson.

345 Data Mining for Business Analytics (3) Designed to facilitate the understanding of how to leverage business

intelligence and analytics in their organization. Examines critical areas of analytics such as text analytics, descriptive analytics, predictive analytics, and prescriptive analytics. Students learn to apply logistic regression, association rules, tree structured classification and regression, cluster analysis, discriminant analysis, and neural networks to address critical business issues and enable/drive businesses to transform their organizations.

Prerequisite: BA 305 or permission of the department chairperson.

436 Data Warehouse and Business Intelligence (3)

Introduces the topics of how to collect, manage, mine, analyze, and interpret large amounts of structured data, while creating visual representations of this information using industry tools and technologies. Includes dimension modeling, database requirements, data management processes within a data warehouse. Students will create data-driven proposals based on case studies and build dashboards to help with executive decision support.

Prerequisite: CIS 413 or permission of the department chairperson.

482 Business Analytics Research (Capstone Course) (3)

Students will apply the skills or techniques they learned in previous courses (e.g. data mining, visualization, data analysis, etc.) to conduct a research study driven by real-world enterprise data or data they collect on their own. The research project aims at evaluating the students on one or more of the following skills: ability to conduct research and learn as team members and independently; teamwork and communication; business analytics projects life cycle; collecting, processing, and analyzing structured and unstructured data; developing and testing predictive analytics models; developing and testing hypothesis-driven research questions; writing scientific/professional reports.

Prerequisite: BA 345 and CIS 413 or permission of the department chairperson.

Department of Management

Revised:

MINOR IN FOOD MANAGEMENT, 18 credits

HOSP	105	Hospitality Foodserv Industry	1
	110	Prin Food Prep and Food Serv	3
	147	Foodservice Sanitation	1
	222	Advanced Culinary Techniques	3
	400	Restaurant Management	4
	475	Catering for Profit	3
NUTR	275	Personal Nutrition	3
			18 crs

This minor is not open to hospitality and food management majors.

HOSPITALITY AND FOOD MANAGEMENT (HOSP)

Revised:

222 (FCFN 222) Advanced Culinary Techniques (3)

Fundamentals of planning, preparing, and serving financially responsible, appetizing and aesthetically appealing meals in a commercial kitchen environment. Attention is given to foods and learning the fundamentals of using commercial food preparation equipment and the use of computers in food service.

Prerequisite: HOSP 110.

Not open to students who have credit in HOSP 220.

Open only to hospitality and food management majors and food management minors.

MANAGEMENT (MGT)

Revised:

661 Strategic Human Resource Management (3)

Emphasizes the basic functions of human resource management including planning, job analysis, selection, training, compensation, evaluation, safety, labor relations, and international issues. A combination of lecture, discussion, applied exercises, and case analysis will be employed.

Prerequisite: full admission to a graduate program of the university.

Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.

COLLEGE OF COMMUNICATION, INFORMATION, AND MEDIA

Center for Information and Communication Sciences

Drop:

Certificate in Information and Communication Technologies for Non-Engineers, 14 credits

COLLEGE OF FINE ARTS

School of Music

MUSIC EDUCATION (MUSE)

Dropped: 340 Playwriting 3

3

651 Band Administration (3)

Department of Theatre and Dance

Revised:

MAJOR IN THEATRE (BA/BS), 58-67 credits

PREFIX	NO	SHORT TITLE	CREDITS
Core reg	uireme	ents, 32 credits	
THEA	102	Branding and Marketing	1
IIILA	102	•	3
	103		3
	105		1
	103	1	
		8	3
	220	Stagecraft	
	232	Acting 1	3
	250	Directing 1	3
	280	Theatre and Dance Practicum (0-1)	2
	317	•	3
	319	Modern Theatre History	3
	405	Senior Experience	1
	435	Shakespeare Performance	3
			32 crs
		ge Management concentration es, 24 credits Costume Design and Tech 1	3
IIILA	291	Store Management	3
			2
	320	Scenic Design and Technology 1	
	326		3
	327	Sound Design and Technology 1	3
	391	Advanced Stage Management	3
	392	Topics in Stage Management	3
	491	Theatre Management	3
	directi stage i EA cou	management arse, courses from other departments a	6
			62 crs
Theatre o	creatio	n concentration, 26 credits	
		es, 13 credits	
DANC		100-level dance course other	
	-	DANC 100	1
THEA	233	Acting 2	3
IIILA	322	<u> </u>	3
	344	Theatre of the 21 Century	5

325

Dramaturgy

Design/Technology electives			
Choose of	one froi	n the following	
THEA	223	Costume Design and Tech 1 (3)	
	229	Stage Makeup Design and Tech 1 (2)	

320 Scenic Design and Technology 1 (3)
326 Lighting Design and Tech 1 (3)
327 Sound Design and Technology 1 (3)

Electives, 10-11 credits

Liectives	, 10-11	Cieuits
ENG	410	Adv Screenwriting (3)
	464	Shakespeare (3)
TCOM	487	Video Production Seminar (3-6)
THEA	150	Introduction Theatre Education (3)
	234	Intro to the Singing Actor (3)
	291	Stage Management (3)
	318	Advanced Topics (3-6)
	324	Musical Theatre History (3)
	329	Costume History (3)
	350	Directing 2 (3)
	352	Topics in Directing (3)
	353	Acting and Directing History (3)
	354	Directing for Young Audiences (3)
	380	Advanced Practicum (1-9)
	391	Advanced Stage Management (3)
	420	Scenic Design and Technology 2 (3)
	423	Costume Design and Tech 2 (3)
	426	Lighting Design and Tech 2 (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 crs

The theatre creation concentration 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 credits 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 theatre creation concentration. Students must also submit a Theatre Creations 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 concentration probation. Failure to submit two portfolios in a row will result in removal from the concentration. Students may audition or submit portfolio reviews for other concentrations within the department.

DANCE (DANC)

Revised:

490 Creative Project (2) Designed as a project in choreography for advanced dance students.

Prerequisite: DANC 287 and 387 or permission of the department chairperson.

A total of 6 credits may be earned, but not more than 2 in any one semester or term.

THEATRE (THEA)

New:

392 Topics in Stage Management (3) Focuses on taking a show from rehearsal to public performances: leading a team through the process of rehearsal, technical rehearsal and dress rehearsal to opening night. A major component of the class will focus on booking and calling several scripted pieces, movement pieces and musical scripts. Emphasis will be given to the technical rehearsal and dress rehearsal processes. Developing skills to integrate technical elements into the production through technical and dress rehearsals, using time effectively and dynamic problem solving.

Prerequisite: THEA 291 and permission of the instructor of department chairperson.

Revised:

274 Musical Theatre Ensemble (1) Choral performing ensemble rehearsing twice a week. Study and performance of large ensemble works from musical theatre productions of all genres/eras.

Prerequisite: THEA 271 and 273; permission of the department chairperson.

Open only to musical theatre majors and musical vocal performance majors.

352 Topics in Directing (3) Revolving special topics course with a semester-long focus in the theoretical and/or practical understanding of a given topic in directing. Possible topics include focused directing in a particular style of theatre; advanced actor training for the director; comparative studies of different directing approaches.

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

COLLEGE OF HEALTH

School of Nursing

Revised:

MASTER OF SCIENCE (MS) IN NURSING, 36 credits

Admission requirements

Applicants must meet the admission requirements of the Graduate School. Applicants must also

- be a graduate of a National League for Nursing
 Accrediting Commission (NLNAC) now ACEN
 Accreditation Commission for Education in Nursing or
 Association of Colleges of Nursing (CCNE) accredited
 nursing program. Registered nurses holding baccalaureate
 degrees in another field who demonstrate successful
 completion of an upper-division major in nursing may
 qualify.
- have earned overall grade-point average (GPA) of 3.0 on a 4.0 scale.
- have earned a grade of *C* or better in at least 2-quarter, or semester, credits in an undergraduate research course.
- have had a physical assessment course (required for clinical majors).
- hold an unencumbered license as a registered nurse in state of practice.
- show evidence of training in standard precautions.
- have health clearance.
- clear criminal background checks.
- have minimum of one year clinical experience before enrolling in clinical courses for new graduates.
- have recent clinical experiences (three of past five years) before enrolling in clinical courses for experienced nurses.

This program is delivered on-line.

Retention Standards

An overall scholastic ratio of 3.0 (B average) must be attained before admission to candidacy and the final awarding of any master's degree. No course with grades below B (3.0) may be counted toward any degree program.

Registered Nurse to Master of Science Nursing Mobility

This program is designed for nurses holding an associate degree in nursing and a baccalaureate degree in another field. Contact the School of Nursing for more information.

All students take the following research and nursing core courses.

PREFIX NO	SHORT TITLE	CREDITS
Research core		
EDPS 641	Intro Statistical Methods (3)	
or		
NUR 607	Data Analys in Nurs Res (3)	3
604	Research	3
		6 crs
Nursing core		
NUR 603	Nursing Theory	3

ϵ	505	Nursing Information Technology	2
	510	Nurs Concepts Health Promotion	3
6	511	Concs Analy 2: Dec Mkng	3
NUR 611 i		y required for the administrator and trations.	8-11 crs
Complete of	one o	f the following concentrations:	
Nurse Adm	iinisti	rator concentration, 36 credits	
Research co	U-U		6 11

Nurs Admin and Complex Orgs

Financial Management Nurses

Practicum of Role Expectations

Admin Mgt for Nurses

Nurse Educator concentration, 36 credits

Researce Nursing			6 11
NUR	608 609 620 622 626 672	Pathophys and Pharmacology Assessment Clinical Practice Curricular Designs in Nursing Teaching in Nursing Program Evaluation Practicum of Role Expectations	3 3 3 3 4
			36 crs

Dropped:

NUR

Electives

640

642

643

672

MASTER OF SCIENCE (MS) IN NURSING, Clinical Nurse Specialist Adult Health concentration, 43 credits

MASTER OF SCIENCE (MS) IN NURSING, Nurse Practitioner (Adult/Gerontology/Family) concentration, 40-47 credits

Post-Master's Certificate in Adult/Gerontology Nurse Practitioner, 14-16 credits

Post-Baccalaureate Certificate in Nursing Education, 14 credits

Certificate in Evidence-Based Clinical Practice, 14 credits

Department of Social Work

SOCIAL WORK (SOCW)

Revised:

490 Independent Study in Social Work (1-12) Topic to be chosen and investigated in consultation with an instructor with special competence in the subject involved.

Prerequisite: permission of the department chairperson. A total of 12 credits may be earned, but no more than 6 in any one semester or term.

Open only to Social Work majors.

COLLEGE OF SCIENCES AND HUMANITIES

Department of Biology

Revised:

3

3

4

6

36 crs

MAJOR IN MEDICAL TECHNOLOGY (BA/BS), 58 credits

Recommended electives are BIO 214; PHYC 110; and MGT 300.

PREFIX	NO	SHORT TITLE	CREDITS
ANAT	201	Fundamentals of Human Anatomy	3
BIO	111	Principles of Biology 1	4
	112	Principles of Biology 2	4
	215	Cell Biology	3
	313	Microbiology	4
	315	Methods in Cell Biology	2
	341	Pathogenic Bacteriology	3
	444	Immunology	4
CHEM	111	General Chemistry 1	4
	112	General Chemistry 2	4
	225	Chemical Analysis	3
	231	Organic Chemistry 1	3
	325	Instrument Meths of Analy	3
	360	Essentials of Biochemistry	3
MATH	108	Intermediate Algebra	3
PHYS	215	Human Physiology	5
ZOOL	347	Animal Parasitology	3
			58 crs

Department of Chemistry

Revised:

ACS MAJOR IN CHEMISTRY (BA/BS), 61-63 credit concentration

This program prepares students for graduate study or careers in chemistry. Upon completion of the program, students are

certified to the American Chemical Society (ACS) as having
fulfilled the course of study described in "Objectives and
Guidelines for Undergraduate Programs in Chemistry," issued
by the ACS Committee on Professional Training.

PREFIX	NO	SHORT TITLE	CREDITS
CHEM	111	General Chemistry 1	4
	112	General Chemistry 2	4
	225	Chemical Analysis	3
	231	Organic Chemistry 1	3
	232	Organic Chemistry 2	3
	241	Organic Laboratory 1	1
	242	Organic Laboratory 2	1
	400	Chemical Communications	1
	410	Review of Chem Fundamentals	1
	420	Chemical Instrumentation 1	3
	430	Int Organic Lab Techniques	2
	444	Physical Chemistry 1	4
	445	Physical Chemistry 2	4
	450	Inorganic Chemistry	3
	454	Inorg Organometal Syn Lab	2 3
	463	Principles of Biochemistry 1	
	465	Biochem Lab Techniques	2
1 credit f	From 30	00- or 400-level approved	
CHEM c		**	1
			45 crs
Other red	quirem	ents	
MATH	165	Calculus 1	4
	166	Calculus 2	4
PHYC	110	General Physics 1 (4)	
	112	General Physics 2 (4)	
	or	C 1 PI : 1 (5)	
	120	3" " (=)	0.10
	122	General Physics 2 (5)	8-10

Additional credits in CHEM 470, Independent Study and Research, are recommended. Students who take CHEM 230, 231 and 241 must have completed CHEM 112 with a grade of C or better; students who take CHEM 232 and 242 must have completed CHEM 231 with a grade of C- or better; students who take CHEM 360 and 361 must have completed CHEM 230 or 232 with a grade of C- or better; students who take CHEM 430 must have completed both CHEM 232 and 242 with a grade of *C*- or better.

MAJOR IN CHEMISTRY (BA/BS), 51-53 credit concentration

PREFIX	NO	SHORT TITLE	CREDITS
CHEM		General Chemistry 1	4
	112	General Chemistry 2	4
	225	Chemical Analysis	3

	231	Organic Chemistry 1	3
	232	Organic Chemistry 2	3 3
	241	Organic Laboratory 1	1
	242	Organic Laboratory 2	1
	400	Chemical Communications	1
	410	Review of Chem Fundamentals	1
	444	Physical Chemistry 1	4
	445	Physical Chemistry 2	4
5 credits	from		
CHEM	420	Chemical Instrumentation 1 (3)	
	430	Int Organic Lab Techniques (2)	
	450	Inorganic Chemistry (3)	
	454	Inorg Organometal Syn Lab (2)	
	463	Principles of Biochemistry 1 (3)	
	465	Biochem Lab Techniques (2)	5
	-	oproved 300- or 400-level	
CHEM c	ourse		1
			35 crs
Other red	quirem	ents	
MATH	165	Calculus 1	4
	166	Calculus 2	4
PHYC	110	General Physics 1 (4)	
	112	General Physics 2 (4)	
	or		
	120	General Physics 1 (5)	
	122	General Physics 2 (5)	8-10
Addition	al cred	lits in CHEM 470, Independent Study	51-53 crs
1144141011	ur crou	iii cillin 170, macpendent bludy	uilu

Additional credits in CHEM 470, Independent Study and Research, are recommended. Students who take CHEM 230, 231 and 241 must have completed CHEM 112 with a grade of C or better; students who take CHEM 232 and 242 must have completed CHEM 231 with a grade of C- or better; students who take CHEM 360 and 361 must have completed CHEM 230 or 232 with a grade of C- or better; students who take CHEM 430 must have completed both CHEM 232 and 242 with a grade of *C*- or better.

MAJOR IN CHEMISTRY, BIOCHEMISTRY (BA/BS), 68-70 credit concentration

PREFIX	NO	SHORT TITLE	CREDITS
CHEM	111	General Chemistry 1	4
	112	General Chemistry 2	4
	225	Chemical Analysis	3
	231	Organic Chemistry 1	3
	232	Organic Chemistry 2	3
	241	Organic Laboratory 1	1
	242	Organic Laboratory 2	1
	400	Chemical Communications	1
	410	Review of Chem Fundamentals	1
	444	Physical Chemistry 1	4
	445	Physical Chemistry 2	4

	463	Principles of Biochemistry 1	3	12-16 cr	12-16 credits from		
	464	Principles of Biochemistry 2	3	CS	124	Discrete Structures (3)	
	465	Biochem Lab Techniques	2		or	· ,	
		1		MATH	215	Discrete Systems (4)	3-4
			37 crs	MATH	161	Applied Calculus 1 (3)	
					or		
					165	Calculus 1 (4)	3-4
Other red	quirem	ents		MATH	162	Applied Calculus 2 (3)	
BIO	111	Principles of Biology 1	4		or		
	112	Principles of Biology 2	4		166	Calculus 2 (4)	3-4
	215	Cell Biology	3	MATH	181	Elementary Probability Stats (3)	
	457	Molecular Biology	4		or		
					221	Probability and Statistics (3)	
MATH	165	Calculus 1	4		or		
	166	Calculus 2	4		321	Mathematical Statistics (4)	
					or		
PHYC	110	General Physics 1 (4)		ECON	221	Business Statistics (3)	3-4
	112	General Physics 2 (4)					
	or						12-16 crs
	120	General Physics 1 (5)					
	122	General Physics 2 (5)	8-10	3-5 credi	its fron	n	
		- -		BIO	111	Principles of Biology 1 (4)	
			68-70 crs		or		

CHEM

GEOL

111

201

or

or

Additional credits from BIO 112 and 400-level chemistry courses such as CHEM 470, Independent Study and Research, are recommended. Students who take CHEM 230, 231 and 241 must have completed CHEM 112 with a grade of C or better; students who take CHEM 232 and 242 must have completed CHEM 231 with a grade of C- or better; students who take CHEM 360 and 361 must have completed CHEM 230 or 232 with a grade of C- or better; students who take CHEM 430 must have completed both CHEM 232 and 242 with a grade of *C*- or better.

Department of Computer Science

Revised:

MAJOR IN COMPUTER SCIENCE (BA/BS), 66-72 credits

PREFIX	NO	SHORT TITLE	CREDITS
CS	120	Comp Sci 1: Prog Fundamentals	4
	121	Computer Science 2	4
	222	Advanced Programming	3
	224	Des and Analy of Algorithms	3
	230	Computer Org and Arch	3
	239	Social and Professional Issues	1
	380	Theory of Computation 1	3
	416	Computer Networks	3
	418	Database Design	3
	419	Operating Systems	3
	431	Programming Languages	3
	495	Software Engineering 1	3
	498	Software Engineering 2	3

PHYC	110	General Physics 1 (4)	
	or		
	120	General Physics 1 (5)	3-5
Electives	s, 12 cr	redits from	
CS	315	Game Programming (3)	
	369	Professional Experience 1 (1-3)	
	410	Web Programming (3)	
	411	Mobile Application Development (3)	
	420	Multitier Web Architectures (3)	
	421	Data Analytics (3)	
	439	Current Topics Seminar (3-6)	
	445	Human-Computer Interaction (3)	
	446	System Administration (3)	
	447	Network Security (3)	
	455	Data Mining (3)	
	456	Image Processing (3)	
	490	Software Production Studio (3-6)	
	499	Independent Study (1-6)	
MATH	415	Coding and Communication (3)	12

General Chemistry 1 (4)

Earth, Life, and Time (3)

MINOR IN COMPUTER SCIENCE, 17 credits

PREFIX NO	SHORT TITLE	CREDITS
	Comp Sci 1: Prog Fundamentals Computer Science 2	4 4
9 credits from t	he following	

66-72 crs

CS 124 Discrete Structures (3)

222	Advanced Programming (3)
224	Des and Analy of Algorithms (3)
230	Computer Org and Arch (3)
315	Game Programming (3)
380	Theory of Computation 1 (3)
410	Web Programming (3)
411	Mobile Application Development (3)
416	Computer Networks (3)
418	Database Design (3)
419	Operating Systems (3)
420	Multitier Web Architectures (3)
421	Data Analytics (3)
431	Programming Languages (3)
439	Current Topics Seminar (3)
445	Human Computer Interaction (3)
446	System Administration (3)
447	Network Security (3)
455	Data Mining (3)
456	Image Processing (3)
490	Software Production Studio (3-6)

17 crs

No more than 8 transfer credits are accepted in the minor, and the minor is not open to majors in computer science or minors in computer security.

MINOR IN COMPUTER SECURITY, 18-19 credits

PREFIX	NO	SHORT TITLE	CREDITS
CS	110	Intro Comp Sci and Web Prog (3)	
	or 120	Comp Sci 1: Prog Fundamentals (4)	3-4
CS	200	Computers and Society	3
	203	Intro to Computer Security	3
	249	Forensics	3
CS	416 or	Computer Networks (3)	
CT	210 or	Fundamentals of Network Design (3	3)
CIS	317	Computer Networks for Business (3	3
CS	446	System Administration	3
			18-19 crs

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

Dropped:

(GRADUATE) MINOR IN COMPUTER SCIENCE, 12 credits

CERTIFICATE IN DATA ANALYTICS, 32 credits

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

CERTIFICATE IN WEB SOFTWARE DEVELOPMENT, 26 credits

COMPUTER SCIENCE (CS)

New:

150 Introduction to Teaching Computer Science in Secondary Schools (3) An introduction to the process of becoming a Computer Science teacher in secondary schools. Through coursework and targeted clinical experiences, teacher candidates will begin to form their professional identities as future educators, develop a beginning knowledge base for teaching, and engage with the integration of technology throughout the learning process. They will also observe, develop, and demonstrate initial core teaching practices.

Prerequisite: CS 120 with a *C*- or better.

393 Teaching Computer Science in Middle Schools (3)

Introduction to national and state computer science standards, curricular materials, instructional materials and methods, and assessment related to topics taught in middle school computer science.

Prerequisite: CS 150 with a *C* or better and CS 222, 224, and 230, each with a *C*- or better; minimum grade-point average of 2.5 in all computer science courses that are to be applied to the major; admittance to teacher education, and permission to enroll in 300/400-level education courses.

Parallel: EDJH 385.

395 Teaching Computer Science in Secondary Schools (3) Introduction to national and state computer science standards, curricular materials, instructional materials and methods, and

assessment related to topics taught in secondary school computer science.

Prerequisite: CS 393 with a *C* or better; minimum GPA of 2.5 in all CS courses to be applied to the major; admittance to teacher education program and admittance to enroll in 300/400-level education courses.

Parallel: EDSE 380.

490 Software Production Studio (3-6) Work with a

multidisciplinary team to create an original software product. Students will use an iterative, incremental, user-centered approach to design, develop, test, and deploy their work. This course is open to all majors but is offered by permission only to ensure each team has a practical balance of skills and interests; contact the department for the next planned offering and application instructions.

Prerequisite: permission of the instructor. A total of 6 credits may be earned.

531 Programming Languages (3) Study of principles of programming languages. Emphasizes language paradigms and important features, structures, characteristics, and formal syntax of modern high-level programming languages.

Examples of languages in each paradigm will be studied. Before taking this course, a student is expected to have taken undergraduate courses on computer organization and architecture as well as multiple semesters of programming courses including object-oriented programming.

Not open to students who have credit in CS 335 or CS 431.

628 Wireless and Mobile Networking (3) Topics include hardware and software architectures of wireless and mobile networks, wireless communication principles, network protocols, various wireless networks such as WiFi, Bluetooth, Cellular, and sensor network. Students are expected to have taken an undergraduate level networking course.

Revised:

120 Computer Science 1: Programming Fundamentals (4) Introduction to programming through media computing. Learn basic programming techniques while manipulating image and audio data at the pixel and sound sample level. Topics include control structures, built-in data structures, simple sorting and searching, and procedural abstraction. Required open-lab and close-lab assignments bring theory to practice.

Prerequisite: MATH 108 or math placement score sufficient to place into MATH 111, or permission of the department chairperson.

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

Prerequisite: CS 121 with a *C*- or better and either CS 124 or MATH 215 with a *C*- or better.

Prerequisite or parallel: ENG 104 or 114 or equivalent (e.g., testing or placement).

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

224 Design and Analysis of Algorithms (3) Introduction to algorithm analysis, including probabilistic, geometric, combinatorial, and graph algorithms.

Prerequisite: CS 121 with a *C*- or better and either CS 124 or MATH 215 with a *C*- or better.

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

446 System Administration (3) Covers the setup and administration of a production-quality. Unix/Linux server, suitable for web/mail hosting, shared shell hosting. Topics include general Unix proficiency, the Internet infrastructure, and system administration essentials. Lecture/lab course targeted towards students from various majors, either with some prior Unix/Linux experience or an eager ability to learn new things quickly. No prior Unix/Linux experience is assumed. Provides a foundational understanding of Unix/Linux and instruction on configuring Unix/Linux to be

used as servers for file sharing, user management, web and email hosting.

Prerequisite: CS 300 or CS 416 or CT 210 or CIS 317 with a C- or better.

447 Network Security (3) Topics include encryption, decryption, protocols, viruses, network security, authentication, legal and ethical issues, and security in operating systems, databases, e-commerce, Internet, wireless. Algorithms, protocols and applications such as RSA, DES, SSL, Firewalls, Digital Signatures, VPNs and emerging topics will be explored.

Prerequisite: CS 416 or CT 210 or CIS 317 with a C- or better.

521 Foundations of Data Analytics (3) Introduction to data acquisition, transformation, manipulation, and visualization on large-scale structured and unstructured data. Discussion of basic data analytics methods and algorithms. Application of data analytics in business, web, social networks, and science domains. Students are expected to have completed introductory programming courses before enrolling.

Not open to students who have credit in CS 321 or CS 421.

527 Computer Networks (3) Covers various networks such as Internet, WiFi and Ethernet. The focus in on TCP/IP network layers and protocols such as physical layer, data link protocol, media access control, routing, transport and application, and network security.

Not open to students who have credit in CS 327 or CS 416.

539 Current Topics Seminar (3-6) In-depth study of a topic taught in a seminar format. Topics will be posted in the department before registration.

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

546 Database Design (3) An introduction to database requirements analysis, modeling, creation, and usage. Topics include ER model, relational model, relational algebra, SQL, dependencies and normal forms, indexes, views, sequences, web-based client-server applications development, ETL, procedural language, database security, and NoSQL.

Not open to students who have credit in CS 346 or 418 or 546.

Dropped/replaced

For dropped/replaced courses that also have revisions, the old courses are notated in parenthesis.

410 (**310**) **Web Programming** (**3**) Advanced HTML, including XHTML, Cascading Style Sheets, Java Script and Dynamic HTML. XML including DTDs and XSL. Server side programming, security issues, and encryption-based security mechanisms.

Prerequisite: CS 121 with a C- or better grade.

411 (320) Mobile Application Development (3) Mobile application development using current technologies. Topics include use of mobile device API, responsive design, location

aware applications, hardware sensor applications, resource management, and multimedia applications.

Prerequisite: CS 121 with a C- or better.

416 (**327**) **Computer Networks** (**3**) This course covers various networks such as Internet, WiFi and Ethernet. The focus is on TCP/IP network layers and protocols such as physical layer, data link protocol, media access control, routing, transport and application, and network security.

Prerequisite: CS 224 with a *C*- or better grade. *Not open to* students who have credit in CS 327.

418 (**346**) **Database Design** (**3**) An introduction to database requirements analysis, modeling, creation, and usage. Topics include ER model, relational model, relational algebra, SQL, dependencies and normal forms, indexes, views, sequences, web-based client-server applications development, ETL, procedural language, database security, and NoSQL.

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

419 (**376**) **Operating Systems** (**3**) Investigation on the functions and structure of computer operating systems, processors, and memory. Topics include operating systems principles, process control, concurrency, memory management, scheduling, and security.

Prerequisite: CS 222 and 230, both with a *C*- or better grade.

420 (397) Multitier Web Architectures (3) Topics include ntier architectures, data access and application logic layers, Web services, scalability, advanced XML, service-oriented architectures, object access protocols, and Web site administration and security. Projects will be used to reinforce concepts.

Prerequisite: CS 222 with a *C*- or better grade, and either CS 410 or 411 with a *C*- or better grade.

421 (**321**) **Data Analytics** (**3**) Introduction to data acquisition, transformation, manipulation, and visualization on large-scale structured and unstructured data. Discussion of basic data analytics methods and algorithms. Application of data analytics in business, web, social networks, and science domains.

Prerequisite: CS 121 with a C- or better.

431 (**335**) **Programming Languages** (**3**) Study of principles of programming languages. Emaphsizes language paradigms and important features, structures, characteristics, and formal syntax of modern high-level programming languages. Examples of languages in each paradigm will be studied.

Prerequisite: CS 222 and 230, both with a *C*- or better grade.

Not open to students who have credit in CS 335.

439 (**339**) **Current Topics Seminar** (**3-6**) In-depth study of a topic taught in a seminary format. Topics will be posted in the department before registration.

Prerequisite: CS 222 with *C*- or better grade and permission of the instructor.

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

Open only to juniors and seniors.

445 (**345**) **Human-Computer Interaction** (**3**) Investigation into the principles and practice of user interface design, evaluation, and implementation. Topics include user-centered design, graphical user interface programming, evaluation methods, and software architectures.

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

519 (**576**) **Operating Systems** (**3**) Investigate the functions and structure of computer operating systems, processors, and memory. Topics include process control, concurrency, scheduling, security, and file systems. Introduces topics in systems programming, including I/O programming, signals, and IPC. Before enrolling, students should have completed CS 230 or the equivalent of an undergraduate computer architecture course and CS 224 or the equivalent of two semesters of programming courses and an undergraduate algorithms course.

Not open to students who have credit in CS 376 or CS 419.

520 (**597**) **Multitier Web Architectures** (**3**) Topics include ntier architectures, data access, and application logic layers, Web services, scalability, advanced XML, service-oriented architectures, object access protocols, and Web site administration and security. Projects will be used to reinforce concepts. Before enrolling, a student is expected to have taken CS 224 or the equivalent of two semesters of programming and an undergraduate algorithms course.

Not open to students who have credit in CS 397 or CS 420.

Dropped:

300 Local and Wide Area Networks (3)

430 Systems Programming (3)

438 Computer Graphics (3)

457 Applied Cryptography (3)

515 Game Programming (3)

530 Systems Programming (3)

538 Computer Graphics (3)

557 Applied Cryptography (3)

638 Advanced Topics in Computer Graphics (3)

642 Simulation Techniques (3)

Department of English

Revised:

TEACHING MAJOR IN ENGLISH/LANGUAGE ARTS (BA/BS), 87 credits						
PREFIX	NO	SHORT TITLE	CREDITS			
Core requ	2					
ENG	205	World Literature	3			
	213	Intro to Digital Literacies	3			
	220	Language and Society	3			
	230	Reading and Writing About Lit	3			
	260 or	British Lit 1: Beg to 1780 (3)				
	464	Shakespeare (3)	3			
	321	English Linguistics	3			
	412	Read in Sec Eng Class	3			
	414	Young Adult Literature	3			
	444	Senior Seminar	3			
One class	s in An	nerican Literature	3			
Choose fi						
Group A:		e 1900: ENG 240, 345, 346				
Group B:	or 1900-	present: ENG 250, 347, 351				
COMM	220	Argumentation and Dahata	3			
COMINI		Argumentation and Debate	3			
	240	Introduction to Human Comm (3)				
	or 290	Intercultural Communication (3)	3			
		()	26			
			36 crs			
		f the following concentrations				
-		tration, 12 credits				
ENG	285	Intro to Creative Writing	3			
Choose fi	rom G1	nerican Literature roup A if you took Group B in the				
core or cl in the cor		From Group B if you took Group A	3			
		tish Literature NG 280, 362, 363, 364, 365, 366, 367	7			
464	ioni. L	110 200, 302, 303, 304, 303, 300, 30	3			
3 credits						
		re electives 400 and above NG 490, 491, 492, 493, 494, 498	3			
			48 crs			
Commun COMM	240	studies concentration, 12 credits Introduction to Human Comm (3)				
core or cl	hoose (Intercultural Communication (3) 240 if you took COMM 290 in the COMM 290 if you took COMM 240	3			
in the cor	e.					

COMM	375 475	Presentational Communication Coaching Directing Forensics	3
	320	Persuasion (3)	
	or		
	330	Small Group Decision Making (3)	
	or		
	370	Nonverbal Communication (3)	3
			48 crs

SENIOR HIGH, JUNIOR HIGH/MIDDLE SCHOOL EDUCATION PROGRAM

PREFIX	NO	SHORT TITLE	CREDITS
Professio	onal ed	lucation sequence, 39 credits	
EDFO	420	Soc, Hist, Phil Found of Ed	3
EDJH	385	Theory into Prac Mid Lev Schls	3
EDMU	205	Intro to Multicul Ed	3
EDPS	251	Development Secondary	3
	390	Educational Psychology	3
EDSE	380	Theory into Prac Second Schls	3
ENG	150	Intro to Teach Eng in Sec Sch	3
	350	Teach Writing in Sec Schools	3
	395	Teach Lit and Lang Sec Schools	3
Student t	eachin	g	12
			39 crs
			87 crs

MINOR IN LINGUISTICS AND GLOBAL COMMUNICATION, 15 credits

This program introduces students to the scientific study of human language, its structure, its diversity, and its communicative properties. The program focuses on understanding how languages change, how they are used by communities, and how they are acquired.

PREFIX	NO	SHORT TITLE	CREDITS
ENG	220	Language and Society	3
	320	Intro to Linguistics Science	3
Concentr	ation	1: Linguistics	
ENG	321	English Linguistics	3
6 credits	from		
CH	337	Chinese Linguistics (3)	
ENG	322	Lang and Cross-Cultural Comm (3))
	323	Discourse Struc and Strategies (3)	
	328	Language and Gender (3)	
	332	Phonetics and Phonology (3)	
	400	Special Topics in English (3)	
FR	337	Phonetics (3)	
GER	337	Phonetics (3)	
JAPA	337	Japanese Linguistics (3)	
SP	337	SP Phonetics and SLA (3)	

	340	Survey in Spanish Linguistics (3)	
SPAA	260	Speech Acoustics (3)	
	270	Language Development (3)	6
			15 crs
Concenti	ration .	2: Global Communication	
ENG	322	Lang and Cross-Cultural Comm	3
6 credits	from		
ANTH	111	Anth, Cult, and Globalization (3)	
COMM	290	Intercultural Communication (3)	
ENG	323	Discourse Struc and Strategies (3)	
	328	Language and Gender (3)	
POLS	293	International Relations (3)	
SOC	328	Global and the Social World (3)	6
			15 crs

Four semesters or the equivalent in one or more modern or classical languages other than a student's native language are recommended for Concentration 1: Linguistics. Two semesters or the equivalent in one or more modern or classical languages other than a student's native language are recommended for Concentration 2: Global Communication.

MINOR IN TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES (TESOL), 15 credits

PREFIX	NO	SHORT TITLE	CREDITS
ENG	334	Eng Linguistics for Educators	3
	436	Theory and Research in TESOL	3
	437	Methods and Materials in TESOL	3
Directed	electiv	es, 6 credits from the following cours	ses
ENG	220	Language and Society (3)	
	321	English Linguistics (3)	
	322	Lang and Cross-Cultural Comm (3)	
	332	Phonetics and Phonology (3)	
	438	TESOL Curric Dev and Assess (3)	
	457	Practicum in TESOL (3)	6
			15 crs

This minor does not lead to a license. Four semesters or the equivalent in one or more modern or classical languages other than one's native language are recommended. This minor is not open to students pursuing a K-12 license.

Department of Geography

GEOGRAPHY (GEOG)

Revised:

618 Quantitative Methods in Environmental Geography

(3) A study of quantitative methods used in geographic research and environmental studies that focuses on the solution of spatial problems. Topics covered in this course include, but are not limited to, descriptive statistics, data visualization, inferential statistics, point and area pattern analysis, correlation/regression analysis, and geostatistics.

Prerequisite: MATH 221 or equivalent, or permission of the instructor.

625 GIS for Environmental Science (3) Examination of techniques in Geographic Information Systems (GIS), with emphasis on data and analyses relevant to the environmental sciences. Course delivery includes both guided instruction and applied GIS projects focused on data collection, preparation, analysis, and reporting.

Prerequisite: permission of the instruction.

Department of History

Revised:

PROGRAMS

The master of arts (MA) in history may serve a terminal degree or as prelude to an additional graduate degree. In addition, the degree may be used to professionalize the standard secondary school teaching license.

MASTER OF ARTS IN HISTORY, 33 credits

Admission requirements

Students must apply to and meet the admission requirements of the Graduate School. All applicants must submit 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 semester hours 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

PREFIX	NO	SHORT TITLE	CREDITS
Required	Core		
HIST	612	Seminar Modern Historiography	3
	613	Seminar in Historical Research	3

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 Topics US Europe Hist (3-6) 633 Special Tpcs Comparative Hist (3-6) 661 Seminar in Digital History (3) 670 Intro to Teaching History (3) 671 Seminar in History Education (3)

Two 500- or 600-level courses in history or, with approval, in related fields

6 27 crs

6

6

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)

or

General concentration, 6 credits

Students who choose not to write a thesis must complete 6 additional credits of 600-level history 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)

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 additional credits of 600-level work (3)

6

33 crs

MA Examination

All students choose primary and complementary fields of study, defined by geographical region, chronology, and/or theme. 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.

The culminating experience for all students is the MA Examination, which includes two components:

- 1. A written examination, consisting of a portfolio of work that includes major papers produced in graduate-level classes and seminars, and an evaluative, reflective essay of 10-15 pages that shows how the process of creating this body of work has enhanced knowledge of the methods, historiography, and historical information pertaining to a student's primary and complementary fields. The student's examination committee, consisting of the student's primary and complementary field advisors and a third faculty examiner, will review the portfolio.
- An oral examination, which consists of a one-hour oral review of the portfolio between the examination committee and the student. The oral examination will be combined with the formal defense for students completing 6-hour theses or creative projects.

The number of papers included in the portfolio, the format of the reviews, and the scheduling of the oral review is determined by the student's concentration in the History Master of Arts program, and is described in detail in the History Department's MA Handbook.

Department of Modern Languages and Classics

Revised:

		MAJOR IN FOREIGN LANGUA (A/BS), 84 credits	GE:		344 445	Adv Legal Research and Writing Adv Litigat and Alt Disp Res	3
PREFIX	X NO	SHORT TITLE	CREDITS				27 crs
GER	101	Beginning German 1	4	3 credits	from		
	102	Beginning German 2	4	POLS	342	Problems in Public Policy (3)	
	201	Intermediate German 1	3		or		
	202	Intermediate German 2	3		431	Congress (3)	3
	301	Conversation	3				
	302	Composition	3	3 credits	from		
	335	Civilization and Culture	3	POLS	369	Pd Prof Exp Amer Gov and Law (3)	
					or		
21 credi	ts from	300- and 400-level GER courses	21		479	Pract Exp Amer Gov and Law (3)	
					or	•	
			44 crs		480	Access to Justice Clinic (3)	3
SENIO	R HIG	H, JUNIOR HIGH/MIDDLE SCH	HOOL	3 credits	from		
		PROGRAM		POLS	250	Access to Justice in Legal Sys (3)	
					or		
Professi	ional ed	lucation sequence, 40 credits			455	Administrative Law (3)	3
EDFO	420	Soc, Hist, Phil Found of Ed	3				
EDJH	385	Theory into Prac Mid Lev Schls	3				36 crs
EDMU	205	Intro to Multicul Ed	3				
EDPS	251	Development Secondary	3				
	390	Educational Psychology	3				
EDSE	380	Theory into Prac Second Schls	3	Complet	e one c	concentration	
FL	150	Intro to Teaching WL	3	Concent	ration .	1: Public Law, 33 credits	
	295	FL Field Experience	1	ACC	201	Principles of Accounting 1	3
	395	WL Methods, Reading, Materials	3	BL	260	Principles of Business Law	3
	396	Tech and Assessment in WLE	3	POLS	433	The Judiciary	3
Student			12	RMI	270	Principles of Risk Mgt and Ins	3
			40	15 credit	e from		
			40 crs	COMM		Leadership Communication (3)	
				COMIN	385	Rhet of Marginalized Voices (3)	
Depai	rtme	nt of Political Science		POLS	237	State and Local Politics (3)	
-				1 OLS	238	Urb Gov in United States (3)	
Dovice	d.				347	Environmental Law and Policy (3)	
Revise	eu:				408	Topics in Legal Studies (3)	
					435	Intergov Conflict and Coop (3)	
MAJOI	R IN L	EGAL STUDIES (BA/BS), 69-72 (credits		443	American Constitutional Law (3)	
	_		_		444	Constitutional Liberties (3)	
		pares students for careers as legal as			474	Women and Politics (3)	
		so provides a strong foundation in la			475	Minority Group Politics (3)	
		lents who plan to work in the courts			490	International Law (3)	
		legal departments of government a	nd	PSYS	471	Psych in the Legal System (3)	
business	5.			RMI	330	Employee Benefits and Ret Plan (3)	
				SOC	221	Intro Race and Ethnic Relat (3)	
PREFIX	X NO	SHORT TITLE	CREDITS	500	235	Sociology of Gender (3)	
					320	Social Inequality (3)	
		y major requirements			421	Racial and Cultural Minor US (3)	
		36 credits			425	Sociology of Law (3)	
BL	367	Principles of Estate Planning	3	SOCW	100	Introduction to Social Work (3)	15
POLS	130	American National Government	3	SOCW	100	introduction to social work (3)	13
	141	Introduction to Legal Studies	3	6 anadis	from		
	241	Family Law	3	6 credits ACC		Dringiples of Assounting 2 (2)	
	242	Legal Research and Writing	3	CJC	202	Principles of Accounting 2 (3)	
	243	Litigation	3		101	Intro to Criminal Justice (3)	
	320	Tort Law	3	COMM	220 320	Argumentation and Debate (3) Persuasion (3)	
					320	1 Cisuasion (3)	

	225	Y	
ECON	325	Interviewing (3)	
ECON	201	Elementary Microeconomics (3)	
MGT	300	Managing Behavior in Org (3)	
MKG	300	Principles of Marketing (3)	
PHIL	200	Symbolic Logic (3)	
PSYS RMI	100	Intro to Psychological Science (3)	
SOC	473 100	Insurance Law (3) Principles of Sociology (3)	6
SOC	100	Filliciples of Sociology (3)	
			69 crs
Concenti	ation 2	2: Business Law, 36 credits	
		sted in pursuing this concentration must	
		llowing courses before registering for	
-		evel business courses.	
ACC	201	Principles of Accounting 1	3
	202	Principles of Accounting 2	
BL	260	Principles of Business Law	3
ECON	201	Elementary Microeconomics	3
	202	Elementary Macroeconomics	3
	221	Business Statistics	3
ISOM	125	Micro Apps for Business	3
	210	Business Information Systems	3
12 credit	s from		
BL	363	Uniform Commercial Code (3)	
BUSA	302	Career Management (3)	
ECON	346	Law and Economics (3)	
FIN	300	Principles of Finance (3)	
ISOM	228	Adv Micro Apps for Business (3)	
	313	DB and Info Resource Mgt (3)	
	415	Information Systems Management (3)	
MGT	300	Managing Behavior in Org (3)	
PHIL	200	Symbolic Logic (3)	
POLS	281	Econ Pol Prob of Emerg Ntns (3)	
	347	Environmental Law and Policy (3)	
	408	Topics in Legal Studies (3)	
	433	The Judiciary (3)	
	435	Intergovernmental Relations (3)	
	443	American Constitutional Law (3)	
	444	Constitutional Liberties (3)	
	474	Women and Politics (3)	
	490	International Law (3)	
RE	230	Real Estate Principles (3)	
	331	RE Construction Law and Fin (3)	
RMI	270	Principles of Risk Mgt and Ins (3)	
	330	Employee Benefits and Ret Plan (3)	
	473	Insurance Law (3)	
SOC	425	Sociology of Law (3)	12

The prerequisite for ISOM 210 is *C* or better grade in ISOM 125. ECON 221 requires *C* or better grade in MATH 111, or a passing grade (*D*- or better) in MATH 132, 161, 162, 165, or 166 and a *C* or higher grade in ISOM 125 as the prerequisite.

POLITICAL SCIENCE (POLS)

New:

320 Tort Law (3) Provides a detailed overview of tort law in the United States. Topics covered include intentional torts, personal injury, negligence law, remedies, products liability and strict liability. Students will learn to analyze legal conflicts by applying methods used by legal professionals in order to identify and discuss tort law issues. Students will also prepare legal pleadings and discovery materials. Other topics include ethics and client relations.

Prerequisite: POLS 141 and 242. *Open only to* Legal Studies majors.

450 Masculinity and Politics (3) Introduces students to the discipline of masculinity studies and shows how the discipline can enhance our understanding of politics in different historical periods. Particularly emphasizes how influential political thinkers – like Plato, Machiavelli, and Nietzche – impacted the mutual development of masculinity and politics in the classical Greek and Roman and modern European and American worlds.

Prerequisite: POLS 312 or 313 or permission of the department chairperson.

460 Public and Social Entrepreneurship and Social

Change (3) Designed to provide students with an understanding of the basic theories and concepts of public and social entrepreneurship in creating social change in our community. The course will focus on roles, structures, strategies and tactics that public and not-for-profit organizations can and do use to make change at individual, policy, and societal levels.

Prerequisite: POLS 237 or 342 or 350 or permission of the department chairperson.

550 Masculinity and Politics (3) Introduces students to the discipline of masculinity studies and shows how the discipline can enhance our understanding of politics in different historical periods. The course particularly emphasizes how influential political thinkers – like Plato, Machiavelli, and Nietzche – impacted the mutual development of masculinity and politics in the classical Greek and Roman and modern European and American worlds.

Not open to students who have credit in POLS 450.

560 Public and Social Entrepreneurship and Social

Change (3) Designed to provide students with an understanding of the basic theories and concepts of public and social entrepreneurship in creating social change in our community. The course will focus on roles, structures, strategies and tactics that public and not-for-profit organizations can and do use to make change at individual, policy, and societal levels.

Not open to students who have credit in POLS 460.

Revised:

72 crs

141 Introduction to Legal Studies (3) Course exposes students to career options within the legal studies major,

builds professional skills, and provides an overview of substantive areas of law. Topics covered include legal ethics, conducting legal research and writing, creating professional resumes, career options in the legal profession, and overview of substantive areas of legal study and practice.

Prerequisite: permission of the department chairperson or legal studies director.

243 Litigation (3) For the legal studies major focusing on litigation and related areas of paralegal responsibilities such as drafting interrogatories and writing complaints. Special attention given to learning the compilation of a trial notebook in preparation for litigation.

Prerequisite: POLS 141 and 242. Open only to Legal Studies majors.

281 Economic and Political Problems of Emerging Nations

(3) Historical and contemporary problems of the less-developed nations. Conditions contributing to economic, political, and social change. Problems of economic development policies and programs within the institutional structure. Internal and external pressures that influence patters of development.

Not open to students who have credit in ECON 279.

- **290** American Foreign Policy (3) An introduction to the process of making United States foreign policy, American strategic doctrines, and major foreign policy issues.
- **312 Early Western Political Thought (3)** Analysis of political thought in the early Mediterranean and medieval worlds that became foundational to modern political theories, ideas, ideologies, and institutions in the West. Emphasizes the classical Greek and Roman periods.
- **313 Modern Western Political Thought (3)** Review and analysis of selected writings of theorists in the modern era from the age of reason to the beginning of the post-modern age.
- **342 Problems in Public Policy (3)** A systematic examination of the institutions and processes central to understanding and evaluating domestic public policies in the United States. Emphasizes the theoretical and political aspects of policy making at the national level and implementation within a federal system.
- **345** National Defense Policy (3) An analysis of the cultural, historical, and political forces that shape American defense policy. Emphasizes the relationships between the military services; between the Congress, the President and the Courts; the role of the media; and the larger international strategic environment.
- **347 Environmental Law and Policy (3)** Study of the American political and legal system's response to environmental problems. Politics of environmental policy making, problems of policy implementation, environmental law cases, and trends toward global environmental governance are considered.

- **350 Public Administration (3)** Describes theories and practices of public administration in the United States and the development, implementation, and evaluation of government policies and programs. Surveys topics such as political structures, personnel, budgets, and administrative laws and regulations.
- **370 Public Opinion and Political Behavior** (3) Patterns and trends in public opinion and political behavior; processes leading to those patterns and trends; and the consequences for democratic theory, public policies, and political patterns in the United States and other countries.

Prerequisite: POLS 210 or permission of the department chairperson.

- **375 Media and Politics (3)** Examines the impact of the media (particularly the news media) on American politics and policies. Areas of inquiry include media effects on political campaigns, public deliberation, policy formation, and political leadership.
- **384 Politics in the British Isles (3)** A comparative multi-level study of the governance of the United Kingdom (England, Scotland, Wales and Northern Ireland) and the Republic of Ireland; their political cultures, party systems, political institutions, and policy problems with specific reference to the prospects of UK disintegration and of European integration.
- **385 Politics of the European Union (3)** Study of the development of the European Union as an evolving political entity its politics, institutions, policies and the prospects for European unification.
- **392** The United Nations and International Organization (3) Concentrated study of the United Nations and other international organizations focusing on the structure, functions, and current issues facing the United Nations.
- **394 International Relations in Asia (3)** A survey of contemporary international relations in Asia and the Pacific, emphasizing the roles of major powers in this area.
- **395 Politics of the Global Economy (3)** Historical and theoretical introduction to the politics of international trade and payments, including barriers to trade, exchange rates, multinational corporations, financial crisis, international economic institutions, and the problems of economic development.
- **411 American Political Thought (3)** An investigation of fundamental ideas and ideologies within American political thought from the colonial period to the present like classical republicanism, the English constitution, Puritanism, the Founding, federalism, Manifest Destiny, the Union, the frontier, democracy, capitalism, liberalism, conservatism, progressivism, individualism, and the American vision of international order.

Prerequisite: POLS 130 or permission of the department chairperson.

435 Intergovernmental Conflict and Cooperation (3)

Analysis of the role of conflict, cooperation, dependence, and interdependence among federal, state, and local governments in shaping political relationships and public policy in the American federal system. Examine major conflicts and controversies related to federalism and intergovernmental relations and identify the constitutional principles underlying them.

Prerequisite: POLS 237 or permission of the department chairperson.

535 Intergovernmental Conflict and Cooperation (3)

Analysis of the role of conflict, cooperation, dependence, and interdependence among federal, state, and local governments in shaping political relationships and public policy in the American federal system. Examine major conflicts and controversies related to federalism and intergovernmental relations and identify the constitutional principles underlying them.

Not open to students who have credit in POLS 435.

Dropped/replaced

For dropped/replaced courses that also have revisions, the old courses are notated in parenthesis.

471 (371) Public Interest Groups and Government (3)

Provides an overview of the power and impact that interest groups have on public policy in the United States.

Prerequisite: POLS 130 or permission of the department chairperson.

482 (382) Government and Politics of Western Europe (3)

A comparative analysis of the governmental institutions, electoral systems, political parties, and policy problems of the United Kingdom, France, Germany, and Italy. Their roles as national actors in the process of European integration are also considered.

Prerequisite: POLS 280 or permission of the department chairperson.

486 (386) Politics of Russia and the Successor States (3)

Examines the rise and decline of the Soviet empire and evaluates the challenges facing the current Russian government. The focus is primarily upon Russian politics, although comparisons are made with other countries in the region, in order to investigate and evaluate the political processes that are developing throughout the area.

Prerequisite: POLS 280 or permission of the department chairperson.

Dropped:

229 Law Office Management and Technology (3)

340 Introduction to Law and Enforcement (3)

373 Survey Research Methods (3)

457 Alternative Dispute Resolution (3)

461 Community Planning and Its Administration (3)

465 Labor-Management Relations in Government (3)

512 Early Western Political Thought (3)

513 Modern Western Political Thought (3)

527 Voter Polling Techniques (3)

540 Introduction to Law and Enforcement (3)

545 National Defense Policy (3)

547 Environmental Law and Policy (3)

561 Community Planning and Its Administration (3)

565 Labor-Management Relations in Government (3)

573 American Political Parties (3)

584 British Government and Politics (3)

585 Politics of the European Union (3)

592 The United Nations and International Organizations (3)

594 International Relations in Asia (3)

Department of Psychological Science

Revised:

MAJOR IN PSYCHOLOGICAL SCIENCE (BA/BS), 42 credits

NO	SHORT TITLE	CREDITS
125	Quantitative Reasoning	3
100	Intro to Psychological Science	3
241	Statistics	3
284	Research Methods in Psych Sci	4
285	Professl Ethics in Psychology	1
295	Career Planning in Psych	1
from Iı	ndividual Differences Foundation Are	a
316	Social Psychology (3)	
317	Personality (3)	
318	Psychopathology (3)	
321	Developmental Psychology (3)	3
from L	earning and Cognition Foundation Ar	ea
363	Cognitive Psychology (3)	
364	Psychology of Learning (3)	
371	Applied Behavior Analysis (3)	3
	125 100 241 284 285 295 from Ii 316 317 318 321 from L 363 364	125 Quantitative Reasoning 100 Intro to Psychological Science 241 Statistics 284 Research Methods in Psych Sci 285 Professl Ethics in Psychology 295 Career Planning in Psych from Individual Differences Foundation Are 316 Social Psychology (3) 317 Personality (3) 318 Psychopathology (3) 321 Developmental Psychology (3) 321 Developmental Psychology (3) from Learning and Cognition Foundation Ar 363 Cognitive Psychology (3) 364 Psychology of Learning (3)

3 credits	from I	Diversity Foundation Area	
PSYS	324	Psychology of Women (3)	
	325	Psych Prejudice Discrimination (3)	
	326	Psychology of Diversity (3)	3
3 credits	from I	Biological Foundation Area	
PSYS	362	Motivation and Emotion (3)	
	367	Introduction to Neuroscience (3)	
	368	Sensation and Perception (3)	3
3 credits	from (Capstone Experience	
PSYS	492	Research Seminar (3)	
	499	Honors in Psychology (1-2)	3
6 credits	at 300	- or 400-level PSYS	
(no more	than 3	3 credits from PSYS 478, 479, 497,	
or 498)			6
6 credits	at 400	-level PSYS	
		3 credits from PSYS 478, 479, 497,	
or 498)		, 0.00.00 1.01.1.2.1.2 1.70, 1.75, 1.77,	6
			42 crs

Students must earn a grade of *C* or better in MATH 125.

TEACHING MAJOR IN SOCIAL STUDIES (BA/BS), 99 credits

CREDITS

Psychology concentration, 15 credits
Refer to the Department of Psychological Science listings, p. xxx, for descriptions of these courses.

PSYS	100 493 494	Intro to Psychological Science Teaching Psychology 1 Teaching Psychology 2	3 1 2
3 credits	from	<i>.</i>	
PSYS	367	Introduction to Neuroscience (3)	
	468	Cognitive Neuroscience (3)	3
3 credits	from		
PSYS	362	Motivation and Emotion (3)	
	363	Cognitive Psychology (3)	
	364	Psychology of Learning (3)	3
3 credits	from		
PSYS	316	Social Psychology (3)	
	317	Personality (3)	
	318	Psychopathology (3)	
	324	Psychology of Women (3)	3
			15 crs

Each student's program of study must include at least one of the following courses: PSYS 318, 363, or 468. Each student must satisfactorily complete a Psychological Science Teacher Education Portfolio in accordance with the standards published by the department.

TEACHERS COLLEGE

Department of Educational Leadership Dropped:

CERTIFICATE IN CHARTER SCHOOL LEADERSHIP, 12 credits

Department of Educational Studies

Revised:

Master of Arts in Secondary Education, 30-36 credits

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

Degree requirements

PREFIX	NO	SHORT TITLE	CREDITS
Core requ	ıiremei	nts	
EDCU	601	Princ and Proc of Curr Dev	3
EDST	676	Res on Impact Stud Learn	3
EDTE	650	Curr Integ of Lrnng Tech	3
One cour	se fron	n each of the categories below	
Foundation	ons		
EDFO	620	Soc, Hist, Phil Found Ed (3)	
	621	Education and Ethics (3)	
	631	Philosophy of Education (3)	
	641	History of American Education (3)	
	651	Educational Sociology (3)	3
Multicult	ural		
EDMU	660	Multcl Multieth Ed in Amer Sch (3))
	670	Soc and Cultl Min in Amer Ed (3)	3
Pedagogy	1		
EDJH .	512	Inst Strtgs Apprchs JH and MS (3)	
	534	Pract Apprchs-Stud Beh (3)	
EDSE	695	Dyn and Sec School Classroom (3)	3

Choose one of the concentrations below

Concentration 1, 12 credits

Curricul	um			Methods	Cours	e in Content Area (3)	
EDCU	620	Se School Curriculum (3)		EDJH	512	Inst Strtgs Apprchs JH and MS (3)	
	630	Jr Hi and Mid School Curr (3)			534	Pract Apprchs-Stud Beh (3)	
	640	Altern School Curricula (3)	3	EDSE	695	Dyn and Sec School Classroom (3)	3
3 credits	of add	itional course work from one of the					18 crs
		es or from other graduate courses		Denar	·tme	nt of Elementary Education	
		Department of Educational Studies	3	Depai	tille	nt of Elementary Education	OII
	•						
6 credits	from			Revise	d:		
minors a	nd elec	etives	6				
						MAJOR IN EARLY CHILDHOOD	
			30 crs	EDUCA	TION	(Birth-Grade 3) (BA/BS), 102 credi	its
Concent	ration	2, 12 credits		PREFIX	NO	SHORT TITLE	CREDITS
Concenti	· corrore	2, 12 <i>Creams</i>		1 1121 121	110	SHOW THEE	CREDITS
One curr	iculum	course		AHS	100	Introduction to Art	3
				BIO	102	Biol Concepts for Teachers	3
Curricul	um			EDEL	100	Educ in a Democratic Society	3
EDCU	620	Se School Curriculum (3)			200	Plan for Elem and EC Classroom	3
	630	Jr Hi and Mid School Curr (3)			244	Early and Elem Educ Soc Just	3
	640	Altern School Curricula (3)	3		351	Teaching in the K Primary Prog	3
					400	Student Teaching: Pre-K (6-12)	
9 credits	in add	itional course work from a content			or		
area (i.e.	, Engli	sh, Mathematics, Reading, Social			401	Student Teaching: Kindergarten (6-1	12)
Studies,	Gifted	and Talented, Special Education,			or		
Science,	etc.)		9		402	Student Teaching: Primary (6-12)	12
					442	Administration of EC Programs	3
			30 crs	EDFO	420	Soc, Hist, Phil Found of Ed	3
				EDPS	260	Development Elementary	3
Concent	ration .	3, 18 credits			393	Educational Psych Elementary	3
				EDRD	204	Literature for Children (3)	
		ditional course work from a content			or		
		sh, Mathematics, Social			318	Lit for Young Children (3)	3
Studies,	Scienc	e, etc.)	18		390	Early Emergent Literacy	3
					430	Assess Interven Read Lang Arts	3
			36 crs	FCFC	265	Infant and Toddler Dvlp Educ	3
				GEOG	101	Earth Sea Sky: Geographic View (3))
		H, JUNIOR HIGH, AND MIDDLE		CECT	or	PI + F + 1 C + 1 F + 1 + + + (2)	
		UCATION LICENSE (grades 6-12):		GEOL	101	Planet Earth Geol Environment (3)	3
TRANS	ITION	TO TEACHING, 18 credits		HIST	201	American History, 1492-1876	3
				HSC	350	Elem Schl Hlth Prgrms	3
Admissi	on req	uirements		MATH	201 202	Num Oper Alg Reas Elem Teach Data Geo Meas Elem Teach	4 3
		1	11. 1		391	Teach Mathematics Elementary	3
		calaureate degree from regionally accre	dited	MUSE	265	Music Basics for the Classroom	3
	_	niversity in content area of license.		PHYC	101	Phys Sci Concepts for Teachers (1-3	
		oint average (GPA) or 2.5 grade-point a	average	SCI	398	Teach Sci in Early Pri Grds	3
plus i	ive yea	ars of work experience in related field.		SPCE	302	Tch Studs and Dis in Gen Ed	3
DDEEW	NO		CDEDITE	SS	398	Teaching SS EC Kind-Grade 3	3
PREFIX	NO	SHORT TITLE C	CREDITS	Elective	370	reaching 55 Le Kind-Grade 5	2
EDFO	620	Soc, Hist, Phil Found Ed	3				
EDJH	585	Princ of Tchng in Mid Schl	3				90 crs
EDIII	600	Adv Educational Psych	3				-
EDIS	560	Student Tchng: Sec Schl (3-7)	3	Concenti	ation		
בוטטב	580	Prin of Tchng in Sec School	3	EDEL	231	Family and Community Relations	3
	200	Tim of Tening in See Sensor	5		252	Creative Exp for Yng Children	3
One cour	rse froi	n below			301	Tchg in the Pre-K K Program	3
2 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2					381	Early Childhood Language Arts	3

	Compl	ata tha f	ollowing 12 aradita	
12 c	_	351	ollowing, 43 credits Adolescent Psychology	2
12 C				3
102	– FCFC	100	Intro Family Child	1
102 c	ers	202	Child and Family Wellness	3
These major courses, AHS 100, BIO 102, GEOG 101 or		250	Family Relations	3
GEOL 101, HIST 201, MATH 201, MUSE 265, PHYC 101		265	Infant and Toddler Dvlp Educ	3
also fill a University Core Curriculum requirement.		275	Child Development	3
		350	Families Cross Culture	3
EDUCATION: ELEMENTARY (EDEL)		380	Parenting	3
		393	Present Practice Tech Fam Educ	3
Revised:		425	Grant Writing Research Methods	3
Reviseu.		484	Family Stressors and Crises	3
		485	Family Policy	3
400 Student Teaching – Pre-Kindergarten (6-12) Capston		493	Family and Child Internship (3-9)	3
clinical experience in the practice and application of teachin		240	Nutrition for Educators (3)	3
skills with pre-kindergarten students. Students enroll in EDI	EL	or	rutification for Educators (5)	
400 (12) or EDEL 401 (12) or EDEL 402 (12). Offered		275	Personal Nutrition (3)	3
credit/no credit only.	PSYS	100	Intro to Psychological Science	3
Prerequisite: completion of decision point 3; admission	to	100	mitto to r sychological Science	3
student teaching: C or better grades in EDEL 301 and EDEI		000 000	as to complete the major	
381 and EDEL 351 and EDPS 393 and MATH 391 and SCI			ea to complete the major:	
398 and SS 398; 3.0 overall grade-point average; permission			ild: Child development concentration,	
of the department chairperson.	18 cred		FGG : 1	2
A total of 12 credits may be earned.	EDEL	260	EC Curriculum and Instruction	3
		442	Administration of EC Programs	3
401 Student Teaching – Kindergarten (6-12) Capstone	FCFC	310	Promot Prosocial Behav Child	3
clinical experience in the practice and application of teachin	g	320	Leadership Mgt Child Dev Prog	3
skills with pre-kindergarten students. Students enroll in EDI	EL	465	Adv Child Dev in Practice	3
401 (12) or EDEL 400 (12) or EDEL 402 (12). Offered	SPCE	210	Thry and Pract in EC Spec Ed	3
credit/no credit only.				
Prerequisite: completion of decision point 3; admission	to Family	and Ch	ild: Child life concentration, 23 credits	
student teaching: C or better grades in EDEL 301 and EDEI		100	Biology for a Modern Society	3
381 and EDEL 351 and EDPS 393 and MATH 391 and SCI		254	Biology in the Social Context	3
398 and SS 398; 3.0 overall grade-point average; permission	r FCFC	310	Promot Prosocial Behav Child	3
of the department chairperson.		465	Adv Child Dev in Practice	3
A total of 12 credits may be earned.		492	Prof Practice Child Life	3
	HSC	371	Death and Dying	3
402 Student Teaching – Primary (6-12) Capstone clinical	NUR	101	Termin Hlth Care Prof and Cons	2
experience in the practice and application of teaching skills		103	Health Behav: Cult Variations	3
with pre-kindergarten students. Students enroll in EDEL 402	2			
(12) or EDEL 400 (12) or EDEL 401 (12). Offered credit/no)			
credit only.	Family	and Ch	ild: Family studies concentration,	
Prerequisite: completion of decision point 3; admission	to 21 cred	lits		
student teaching: C or better grades in EDEL 301 and EDEI	EDPS	355	Adult Psychology (3)	
381 and EDEL 351 and EDPS 393 and MATH 391 and SCI		or		
398 and SS 398; 3.0 overall grade-point average; permission	soc	431	Aging and the Life Course (3)	3
of the department chairperson.	FCFC	340	Life Workplace Management	3
A total of 12 credits may be earned.		394	Family Services Administration	3
•		475	Marriage	3
	HSC	261	Health, Sex, and Family Life (3)	
Dangertment of Family Consumar and		or		
Department of Family, Consumer, and	PSYS	377	Psychology of Sexual Behavior (3)	3
Technology Education	COCW	100		2

Department of Family, Consumer, and Technology Education

Revised:

MAJOR IN FAMILY AND CHILD (BA/BS), 61-66 credits

PREFIX NO SHORT TITLE

CREDITS

MINOR IN DESIGN TECHNOLOGY, 18 credits

Introduction to Social Work

Human Behav and Social Envr 2

PREFIX NO SHORT TITLE

100

325

SOCW

CREDITS

3

3

61-66 crs

TEUD	102	Design Techniques	3
Product	develo	pment, 6 credits from	
TDPT	210	Engineering Principles (3)	
	280	3D Prototyping (3)	
TMFG	495	Green Prototyp Upcycl (3)	6
Digital a	locume	ntation, 6 credits from	
CM	106	CAD for Const Management (3)	
TGRA	184	Comp Applications-Graphic Arts (3)	
	286	Digital Photography 1 (3)	6
3 credits	from a	approved elective	3
			18 crs

TEACHING MAJOR IN FAMILY AND CONSUMER SCIENCES (BA/BS), 87 credits

PREFIX	NO	SHORT TITLE	CREDITS
EDTE	350	Curr Integration of Tech	3
FASH	102	Fund of Apparel Construction	3
FCED	150	Introduction to FCED	3
	261	FCED Assess Methods	3
	492	Implementation of FCED	3
	493	Coordination of FCS Programs	3
FCFC	202	Child and Family Wellness	3
	250	Family Relations	3
	315	Infant Toddler Curr Envir	3
	380	Parenting	3
HOSP	110	Prin Food Prep and Food Serv	3
	220	Meal Design and Presentation	3
NUTR	275	Personal Nutrition (3)	3
PMGT	104	Housing Decisions	3
	123	Interior Design Basics	3
SPCE	302	Tch Studs and Dis in Gen Ed	3
TEDU	102	Design Techniques	3
			51 crs

SENIOR HIGH, JUNIOR HIGH/MIDDLE SCHOOL EDUCATION PROGRAM

PREFIX	NO	SHORT TITLE	CREDITS					
Professional education sequence, 33 credits								
EDFO	420	Soc, Hist, Phil Found of Ed	3					
EDJH	385	Prin of Tchng in Mid Schl	3					
EDMU	205	Intro to Multicul Ed	3					
EDPS	251	Development Secondary	3					
	390	Educational Psychology	3					
EDSE	320	Read Div Sec Cont Class	3					
	380	Princ of Tchng in Sec School	3					
Student teaching			12					
			33 crs					
			84 crs					

Students in this program cannot minor in Infant and Toddler Specialization.

FAMILY AND CONSUMER SCIENCES: CHILD DEVELOPMENT (FCCD)

Dropped:

400 Internship in Child Development (3-6)

FAMILY AND CONSUMER SCIENCES: CHILD LIFE (FCCL)

Dropped:

400 Internship in Child Life (3-6)

FAMILY AND CONSUMER SCIENCES: EDUCATION (FCED)

New:

261 Assessment Methods for Teacher Candidates in Family and Consumer Sciences Education (3) An assessment of methods used to maintain a positive learning environment are covered in this course. Assessment tools and strategies pertaining to student behavior, classroom layout, and measuring skills will be discussed, created and analyzed.

Prerequisite: FCED 150.

FAMILY AND CONSUMER SCIENCES: FAMILY AND CHILD (FCFC)

New:

350 Families in Cross-Cultural Perspectives (3) Addresses issues for professionals working with families with diverse cultural customs, beliefs, and values. Content includes the principles, processes, and key concepts involved in child rearing practices, coupling and marital processes, and general family dynamics in a cross-cultural perspective. Emphasis is on issues related to ethnic diversity, immigration, and other key concepts to consider when working with individuals and families from diverse backgrounds.

Prerequisite: FCFC 250.

493 Internship in Family and Child (3-9) Provides the opportunity for the student to work in an internship setting to gain professional experience related to their major.

Prerequisite: FCFC 315 or 393 or 465 or permission of the department chairperson.

A total of 9 credits may be earned.

FAMILY AND CONSUMER SCIENCES: FAMILY STUDIES (FCFS)

Dropped:		345	Adv Media Sales and Promotion	3
11		346	Sales and Promotion Writing	3
400 Internship in Family Studies (3-6)		384	Electronic Media Law	3
400 Internship in Fahiny Studies (3-0)		408	Med Ethics Soc Responsibility	3
		445	Sales and Promotion Management	3
TECHNOLOGY: MANUFACTURING (TMFG)	2 1.4	C		
	3 credits		D 1 D (C (2)	
New:	COMM	251	Bus and Prof Comm (3)	
New:		320	Persuasion (3)	
		330	Small Group Communication (3)	_
380 Advanced Prototyping: Additive Manufacturing (3)		375	Presentational Communication (3)	3
Experimentation and advanced technologies and techniques				
for designing and producing prototypes using 3D printing and	9 credits			
other digital additive manufacturing.	COMM	322	Comm and Popular Culture (3)	
Prerequisite: TDPT 280 or TMFG 495 or permission of	ECON	116	Survey of Economics Ides (3)	
the instructor.		or		
		201	Elementary Microeconomics (3)	
Department of Special Education	ENG	231	Professional Writing (3)	
Department of Special Education	HOSP	376	Intro Event Management (3)	
		477	Advanced Event Management (3)	
SPECIAL EDUCATION (SPCE)	JOUR	250	Introduction to Advertising (3)	
,		261	Principles of Public Relations (3)	
Revised:		348	Strat Comm Emerging Media (3)	
Reviseu:		352	Media Planning 1 (3)	
		355	Branding for AD and P R (3)	
331 Technology in Education (1-3) Introduction to computer	MKG	300	Principles of Marketing (3)	
applications in special education, including building personal		310	Consumer Behavior (3)	
computer skills, applying those skills in the classroom,		320	Advertising Management (3)	
customizing curriculum, and adapting a variety of		325	Professional Selling (3)	
technologies for learners with special needs.		420	Integrated Mkg Communications (3)	
A total of 3 credits may be earned.		425	Seminar in Adv Prof Selling (3)	
		427	Sales Management (3)	
606 Multi-Tier System of Supports/Response to	TCOM	347	Spec Tpcs Sales and Promotion (3)	6
Intervention: Seminar (3) Provides the framework for the			1 1	
implementation of MTSS/RTI. The components of MTSS/RTI				15

HOSP 477 requires HOSP 376 as a prerequisite. MKG 310,

320, requires MKG 300 as a prerequisite. MKG 420 requires MKG 300 as a prerequisite. MKG 425 requires MKG 300, 325 and permission of the department chairperson as a prerequisite. MKG 427 requires MKG 300 and 325 as prerequisites.

Laura Helms

Executive Director of Academic Services Associate Dean, University College

implementation and the role of school personnel in that system will be investigated. Course will assist school personnel in exploring answers to key questions facing educators who are implementing MTSS/RTI in their respective districts.

607 Multi-Tier System of Supports/Response to Intervention: Tracking Student Progress (3) Students will study and practice the components of MTSS (RTI, PBIS) models that track student progress. Methods of progress monitoring will be explored. Course will direct students through the process of data-based decision-making across tiers of services. Models of implementation will be discussed.

Additions:

MAJOR IN TELECOMMUNICATIONS (BA), 45-47 credits

Sales and promotion concentration, 36 credits TCOM

306 Programs and Audiences 3 3 Electronic Media Sales 344 Electronic Media Promotion 3