

BALL STATE UNIVERSITY

ACADEMIC POSTING

2015-2016

VOLUME XLVII – 4

April 1, 2016

This posting may contain all or part of the following: new, revised, and dropped programs, courses and prefixes. The posting period begins April 4, 2016. 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 4, 2015 is Fall Semester 2016.*

COLLEGE OF APPLIED SCIENCES AND TECHNOLOGY

School of Kinesiology

Dropped:

**SECONDARY PHYSICAL EDUCATION LICENSE,
29 credits**

Department of Technology

TECHNOLOGY: COMPUTER TECHNOLOGY (TCMP)

Revised:

466 Capstone in Computer Technology (3) Students will be engaged in immersive learning experiences integrating and applying the knowledge, skills, and abilities developed throughout the computer technology curriculum.

Open only to computer technology major seniors or juniors with permission.

COLLEGE OF ARCHITECTURE AND PLANNING

Department of Architecture

ARCHITECTURE (ARCH)

Revised:

490 Independent Project (1-6) Independent study in architectural topics.

Prerequisite: approval of an independent study proposal by the department chairperson.

A total of 8 credits may be earned, but no more than 6 in any one semester or term.

498 Special Project in Architecture (3-6) Special and timely architectural projects undertaken by groups of students.

A total of 15 credits may be earned, but no more than 6 in any one semester or term.

Open only to architecture majors and historic preservation minors.

590 Independent Study (1-6) Independent study in architectural topics.

Prerequisite: approval of an independent study proposal by the department chairperson.

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

598 Special Project in Architecture (3-6) Special and timely architectural projects undertaken by groups of students.

Prerequisite: graduate standing or permission of the program director.

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

MILLER COLLEGE OF BUSINESS

Department of Economics

ECONOMICS (ECON)

Revised:

683 Health Economic Analysis (3) Studying health economics will provide students with the tools necessary to analyze the interrelationship of health-care resources, providers, consumers, and markets. By the end of this course, students will demonstrate a conceptual understanding of health

economics and how it relates to the U.S. health-care system.

Prerequisite: ECON 662 or NUR 662 or MBA 651 or permission of the department chairperson.

Department of Information Systems and Operations Management

INFORMATION SYSTEMS AND OPERATIONS MANAGEMENT (ISOM)

New:

651 Supply Chain Management (3) Focuses on system design, structure, capacity, and management of an integrated supply chain. Subjects include cross functional analysis and treatment of sourcing, supply, transportation, maintenance, operations, and related logistics support issues in a system-wide approach. Provides an integrative approach to strategy, policy, and decision making.

Prerequisite: ISOM 551 or equivalent; admission to a graduate program.

Open only to Miller College of Business students or by permission of the department chairperson.

Revised:

654 Project Management (3) Concepts and techniques addressing the project scope definition; plan development and execution; sequencing, scheduling, and controlling activities for timely completion of projects.

Prerequisite: MGT 500 or equivalent; admission to a graduate program of the university.

Open only to Miller College of Business students or by permission of the department chairperson.

Department of Management

PENDING ICHE APPROVAL

New:

CERTIFICATE IN ENTREPRENEURSHIP, 12 credits

| PREFIX | NO | SHORT TITLE | CREDITS |
|--------|-----|-------------------------------|---------|
| MGT | 640 | Entrepreneurial Innovation | 3 |
| | 647 | Entr Planning and Feasibility | 3 |
| | 649 | Entrepreneurial Strategy | 3 |

ACC 501 is required for students who do not have credit in ACC 201 or equivalent.

ACC 501 Financial Accounting (3)
or

3 credits from

MBA 601 Entrepreneurial Leadership (3)
671 Marketing Management (3)

| | | |
|-----|-----|------------------------------------|
| MKG | 625 | Prof Sell Skills and Practices (3) |
| | 630 | Customer Relationship Mgt (3) |
| | 635 | Sales Management (3) |

3

12 crs

This program is offered on-line only.

COLLEGE OF COMMUNICATION, INFORMATION, AND MEDIA

Department of Communication Studies

COMMUNICATION STUDIES (COMM)

Dropped:

250 Text Analysis and the Voice in Communication (3)

390 Honors Colloquium in Communication Studies (2-4)

420 Classical Rhetorical Theory (3)

New:

335 Communication and Health (3) Examines communication processes in the health context. Explores effective and ineffective message design elements focused on health or illness. Identifies communication processes related to particular contexts such as the person, the relationship, the organization, or the larger culture.

Revised:

333 Topics in Communication Studies (3) Critical examination of relevant topics in the field of communication studies. Designed to help students become familiar with the theoretical, methodological, and contextual issues related to communication.

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

696 Directed Study in Communication (3) Students study a particular topic in consultation with a member of the faculty.

Prerequisite: permission of the department chairperson.

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

Department of Telecommunications

TELECOMMUNICATIONS (TCOM)

Dropped:

208 Writing for Electronic Media: Newswriting (1)

Revised:

101 Foundations of Telecommunications (3) Introduction to the technology, industries, economics, and regulatory structures involved in the electronic media. Provides an overview of media history with special emphasis on Internet, mobile, and emerging technologies.

Not open to students who have credit in JOUR 101.

Open only to approved pre-telecommunications students, and business analytics majors with telecommunications concentration.

284 Practical Aspects of Media Law (1) Introduction to practical legal and ethical issues facing media professionals, including freedom of speech and press, libel, privacy, copyright, and advertising regulation.

Prerequisite: TCOM 101.

Open only to approved telecommunications majors and minors, pre-telecommunications students, and business analytics majors with telecommunications concentration.

384 Electronic Media Law (3) Examines the relationship between the government and the electronic media in the United States. History and philosophy of the regulatory process and its effects on traditional and emerging media. TCOM majors and minors may earn credit in only one of the following courses: TCOM 384, NEWS 409, NEWS 449.

Prerequisite: TCOM 101, junior standing.

Open only to approved telecommunications majors and minors, and business analytics majors with telecommunications concentration.

COLLEGE OF FINE ARTS

School of Music

MUSIC MEDIA PRODUCTION (MMP)

Revised:

430 Production Workshop (3) An advanced course in technical application of music production oriented toward independent projects. Projects require a production product such as a technical demonstration, a broadcast quality program, an album, or an intermedia performance.

Prerequisite: three credits of MMP 330; permission of the director of the school.

SCHOOL OF MUSIC (MUSC)

Revised:

340 Large Instrumental Ensemble (.5-3) A major performing ensemble. Included in this category are the Wind Ensemble, Symphony Band, Marching Show Band, Basketball Pep Band, and Symphony Orchestra.

A total of 24 credits may be earned, but no more than 3 in any one semester or term.

341 Large Instrumental Ensemble (.5-3)

Revise statement: A total of 24 credits may be earned, but no more than 3 in any one semester or term.

350 Large Vocal Ensemble (1-3)

Revise statement: A total of 24 credits may be earned, but no more than 3 in any one semester or term.

351 Large Vocal Ensemble (.5-3)

Revise statement: A total of 24 credits may be earned, but no more than 3 in any one semester or term.

MUSIC EDUCATION (MUSE)

Revised:

390 Instrumental Laboratory (.5)

Add statement: A total of 1 credit may be earned, but no more than .5 in any one semester or term.

391 Choral Laboratory (.5)

Add statement: A total of 1 credit may be earned, but no more than .5 in any one semester or term.

MUSIC PERFORMANCE (MUSP)

Revised:

200 Major Study (1-4)

Revise statement: A total of 30 credits may be earned, but no more than 4 in any one semester or term.

201 Principal Study (1-4)

Revise statement: A total of 30 credits may be earned, but no more than 4 in any one semester or term.

202 Secondary Study (1-4)

Revise statement: A total of 30 credits may be earned, but no more than 4 in any one semester or term.

203 Minor Study (1-4)

Revise statement: A total of 30 credits may be earned, but no more than 4 in any one semester or term.

204 Jazz Study (1-2)

Revise statement: A total of 20 credits may be earned, but no more than 2 in any one semester or term.

206 Piano Accompanying (1-3)

Revise credits from: 1-99 **to:** 1-3

Revise statement: A total of 12 credits may be earned, but no more than 3 in any one semester or term.

231 Jazz Combo (1-4)

Revise statement: A total of 20 credits may be earned, but no more than 4 in any one semester or term.

300 Orchestral Repertoire (1-3)**Revise credits from:** 1-99 **to:** 1-3**Revise statement:** A total of 6 credits may be earned, but no more than 3 in any one semester or term.**306 Piano Accompanying (1-3)****Revise credits from:** 1-99 **to:** 1-3**Revise statement:** A total of 12 credits may be earned, but no more than 3 in any one semester or term.**325 Secondary Study (Piano) (1)****Revise credits from:** 1-99 **to:** 1**Revise statement:** A total of 4 credits may be earned, but no more than 1 in any one semester or term.**327 Secondary Study (Organ/Harpsichord) (1)****Revise credits from:** 1-99 **to:** 1**Revise statement:** A total of 4 credits may be earned, but no more than 1 in any one semester or term.**400 Major Study (1-4)****Revise statement:** A total of 30 credits may be earned, but no more than 4 in any one semester or term.**401 Principal Study (1-4)****Revise statement:** A total of 30 credits may be earned, but no more than 4 in any one semester or term.**420 Wind and Percussion Literature and Pedagogy (2)****Add statement:** A total of 12 credits may be earned, but no more than 2 in any one semester or term.**423 String and Harp Literature and Pedagogy (2)****Add statement:** A total of 12 credits may be earned, but no more than 2 in any one semester or term.**424 Advanced String and Harp Literature and Pedagogy (2)****Add statement:** A total of 12 credits may be earned, but no more than 2 in any one semester or term.**430 Small Ensemble (Woodwinds) (1-4)****Revise statement:** A total of 24 credits may be earned, but no more than 4 in any one semester or term.**431 Small Ensemble (Brass) (1-4)****Revise statement:** A total of 24 credits may be earned, but no more than 4 in any one semester or term.**432 Small Ensemble (Percussion) (1-4)****Revise statement:** A total of 24 credits may be earned, but no more than 4 in any one semester or term.**433 Small Ensemble (Strings) (1-4)****Revise statement:** A total of 24 credits may be earned, but no more than 4 in any one semester or term.**434 Small Ensemble (Harp) (1-4)****Revise statement:** A total of 24 credits may be earned, but no more than 4 in any one semester or term.**435 Small Ensemble (Piano) (1-2)****Revise statement:** A total of 24 credits may be earned, but no more than 2 in any one semester or term.**436 Ensemble for New Music (1-2)****Revise statement:** A total of 24 credits may be earned, but no more than 2 in any one semester or term.**437 Small Ensemble (Organ and Church Music) (1-2)****Revise statement:** A total of 24 credits may be earned, but no more than 2 in any one semester or term.**438 Small Ensemble (Vocal) (1-2)****Revise statement:** A total of 24 credits may be earned, but no more than 2 in any one semester or term.**439 Small Ensemble (Guitar) (1-2)****Revise statement:** A total of 24 credits may be earned, but no more than 2 in any one semester or term.**MUSIC THEORY AND COMPOSITION (MUST)****Revised:****432 Composition (2)****Revise statement:** A total of 24 credits may be earned, but no more than 2 in any one semester or term.**450 Computer Music Composition 2 (2)****Revise statement:** A total of 24 credits may be earned, but no more than 2 in any one semester or term.**COLLEGE OF SCIENCES AND HUMANITIES****Interdepartmental Programs****SOCIAL STUDIES****Revised:****TEACHING MAJOR IN SOCIAL STUDIES (BA/BS), 99 credits**

All students seeking to become candidates for licensure in Social Studies will, via course completion and performance assessment, demonstrate mastery of the subject matter in the individual disciplines: economics, geography, government, psychology, sociology, and historical perspectives (United States and world history). See department statements for course requirements. They will demonstrate that mastery as a result of intensive preparation in two or more disciplines, one of which must be historical perspectives. Students will complete 30 credits in historical perspectives to facilitate preparation in both United

States and world history, complemented by preparation in one other discipline (15 credits), and four other courses (12 credits), one from each of the four other disciplines, totaling 57 credits. Students are encouraged to pursue additional licensure in one or more of the other four disciplines.

See departments for required courses in areas of concentration. The following courses are required for disciplines that are not the student's areas of concentration (the four other courses described above):

Economics: ECON 116 Survey of Economic Ideas (3)
 Geography: GEOG 150 Global Geography (3)
 Political Science: POLS 130 American National Government (3)
 Psychology: PSYS 100 Intro to Psychological Science (3)
 Sociology: SOC 100 Principles of Sociology (3) 12

SENIOR HIGH, JUNIOR HIGH/MIDDLE SCHOOL EDUCATION PROGRAM

| PREFIX | NO | SHORT TITLE | CREDITS |
|--|-----|------------------------------------|---------|
| <i>Professional education sequence, 42 credits</i> | | | |
| 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 |
| | 460 | Student Tchng: Sec Schl (6-7) | 7 |
| | 465 | Elective Student Teaching (3 or 5) | 5 |
| SS | 150 | Intro Soc Studies Ed-Sec Lev | 3 |
| | 350 | Teach Hist SS Jr Hi Mid School | 3 |
| | 395 | Teaching SS in Sec Schools | 3 |
| | | | 42 crs |
| | | | 99 crs |

See Professional Education Assessment/Decision Points, p. 382, for additional information.

Department of Chemistry

CHEMISTRY (CHEM)

Revised:

112 General Chemistry 2 (4) Continuation and extension of CHEM 111, including chemical kinetics, electrochemistry, chemical equilibrium, chemistry of metals and nonmetals, and radioactivity. Three hours of lecture and one three-hour recitation-laboratory period weekly. Core Transfer Library: Physical Sciences (IPS 1722)

Prerequisite: CHEM 111 and MATH 108 or 111 or 112 or 161 or 162 or 165 or 166 or equivalent math placement scores.

Department of Computer Science

Revised:

MINOR IN COMPUTER SCIENCE, 17 credits

| PREFIX | NO | SHORT TITLE | CREDITS |
|---|-----|------------------------------------|---------|
| Complete at least 17 credits from the following | | | |
| CS | 120 | Computer Science 1 (4) | |
| | 121 | Computer Science 2 (4) | |
| | 124 | Discrete Structures (3) | |
| | 222 | Advanced Programming (3) | |
| | 224 | Des and Analy of Algorithms (3) | |
| | 230 | Computer Org and Arch (3) | |
| | 239 | Social and Professional Issues (1) | |
| | 310 | Web Programming (3) | |
| | 315 | Game Programming (3) | |
| | 320 | Mobile Software Dev (3) | |
| | 321 | Data Analytics (3) | |
| | 327 | Dist Proc and Networks (3) | |
| | 335 | Programming Languages (3) | |
| | 339 | Advanced Topics Seminar (3) | |
| | 345 | Human-Computer Interfaces (3) | |
| | 346 | Database Design (3) | |
| | 369 | Professional Experience 1 (1-3) | |
| | 376 | Operating Systems (3) | |
| | 380 | Theory of Computation 1 (3) | |
| | 397 | Multitier Web Architectures (3) | |
| | 430 | Systems Programming (3) | |
| | 438 | Computer Graphics (3) | |
| | 446 | System Administration (3) | |
| | 447 | Network Security (3) | |

17 crs

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

Department of English

Revised:

MAJOR IN ENGLISH (BA), 36 credits

Rhetoric and Writing, 36 credits

This program introduces students to rhetoric as the theory and practice of discourse; it is especially relevant for students planning further academic or professional studies. Four semesters (or the equivalent) of a modern or classical language at the college level are required.

| | | | |
|-----|-----|--------------------------------|---|
| ENG | 210 | Intro to Rhet and Writing | 3 |
| | 213 | Intro to Digital Literacies | 3 |
| | 231 | Professional Writing | 3 |
| | 303 | History of Rhetoric | 3 |
| | 335 | Writ and Read Public Discourse | 3 |
| | 435 | Issues in Rhet and Writing | 3 |
| | 444 | Senior Seminar | 3 |

ENG 104 or 114 are prerequisites for ENG 210, 213, 231, 303, 335, and 435. Students must take ENG 210 prior to taking ENG 303.

9 directed elective credits from the following courses

| | | | | | |
|--|-----|-----------------------------------|------------------------------|--------------------------------|--------|
| (no more than 3 credits from ENG 369): | | 436 | Theory and Research in TESOL | 3 | |
| COMM | 310 | Communication and Democracy (3) | 437 | Methods and Materials in TESOL | 3 |
| | 320 | Persuasion (3) | 438 | TESOL Curric Dev and Assess | 3 |
| | 322 | Comm and Popular Culture (3) | 457 | Practicum in TESOL | 3 |
| | 385 | Rhet of Marginalized Voices (3) | | | |
| | 412 | Rhetorical Thry and Criticism (3) | | | 15 crs |
| | 420 | Classical Rhetorical Theory (3) | | | |
| ENG | 306 | Creative Nonfiction Writing (3) | | | |
| | 329 | Editing and Style (3) | | | |
| | 369 | Professional Experience (3) | | | |
| | 389 | Practicum Peer Tutoring (3) | | | |
| | 430 | Document Design (3) | | | |
| | 431 | Rhet Writ and Emerging Media (3) | 9 | | |

Students must take COMM 210 prior to taking COMM 310 or COMM 320. Students must take COMM 320 prior to taking COMM 412.

Electives

Two elective courses in English numbered 205 and above. May not include ENG 206, or any course specifically designed for teacher preparation: ENG 150, 350, and 395. 6

36 crs

LICENSE AREA IN ENGLISH AS A NEW LANGUAGE, 15 credits

Open only to candidates who currently hold or are pursuing a K-12 teaching license. The license in English as a new language will be granted when the following criteria are met:

- All requirements for an elementary or subject area teaching license.
- Completion of the professional education courses with a 2.5 minimum grade-point average.
- Completion of the following English as a new language courses with a 2.5 minimum grade-point average.

Decision Point 2—Students must meet with an English as a New Language (ENL) advisor to confirm the following:

- ENL license area portfolio in progress with artifacts and assessment rubrics from the above classes.
- Students may enroll in ENG 436 prior to completing decision point 2, but may not enroll in ENG 437, 438, or 457 before that time.

Decision Point 3—Students must meet with an ENL advisor to confirm the following:

- Completion of remaining required courses with a grade-point average of 2.5 or better: ENG 436, 437, 438, and 457.
- The ENL license portfolio must include evidence of the following:
 - artifacts with attached rubrics from ENG 436, 437, 438, and 457
 - All student work included in the portfolio must have a grade-point average of 2.5 or better.

| PREFIX | NO | SHORT TITLE | CREDITS |
|--------|-----|-------------------------------|---------|
| ENG | 334 | Eng Linguistics for Educators | 3 |

ENGLISH (ENG)

Revised:

230 Reading and Writing about Literature (3) Intensive study and practice of methods of inquiry, rhetorical and documentation conventions, and terminology associated with critical writing about literature. Develops skills for successful study, discussion, and writing about literature.

Prerequisite: ENG 104 or 114.

Open only to English majors and minors except by permission of the department chairperson.

498 Studies in Global Literature (3) A study of major works from post-colonial countries and cultures, such as Nigeria, South Africa, India, and Jamaica, and the intellectual and literary movements associated with them. Students are also introduced to concepts associated with post-colonial literature and criticism such as colonialism, imperialism, anticolonialism and neocolonialism.

Department of Geography

New:

MINOR IN HUMAN GEOGRAPHY, 21 credits

| PREFIX | NO | SHORT TITLE | CREDITS |
|--------|-----|--------------------------------|---------|
| GEOG | 120 | Economic Geog of Globalization | 3 |
| | 121 | Geog of Cultural Environment | 3 |
| | 150 | Global Geography | 3 |
| | 240 | Map Reading and Graphics | 3 |
| | 270 | Geog of International Conflict | 3 |
| | 321 | Urban Geography | 3 |
| | 423 | Population Geography | 3 |

21 crs

Not open to geography majors.

Revised:

MAJOR IN GEOGRAPHY (BA/BS), 51-89 credits

Recommended minors for all concentrations include anthropology, history, natural resources, and environmental management.

| PREFIX | NO | SHORT TITLE | CREDITS |
|-------------------------------|----|-------------|---------|
| Core requirements, 15 credits | | | |

| | | | |
|------|-----|--------------------------------|--------|
| GEOG | 101 | Earth Sea Sky: Geographic View | 3 |
| | 150 | Global Geography | 3 |
| | 240 | Map Reading and Graphics | 3 |
| | 250 | Spatial Analytical Methods | 3 |
| | 265 | Intro Geographic Info Systems | 3 |
| | | | <hr/> |
| | | | 15 crs |

Complete one concentration

Concentration 1: Human Geography, 36 credits

| | | | |
|------|-----|--------------------------------|---|
| GEOG | 120 | Economic Geog of Globalization | 3 |
| | 121 | Geog of Cultural Environment | 3 |
| | 270 | Geog of International Conflict | 3 |
| | 320 | Immig and Ethnic Geog of US | 3 |
| | 321 | Urban Geography | 3 |
| | 340 | Cartograp Visual Spatial Data | 3 |
| | 350 | Geog United States and Canada | 3 |
| | 423 | Population Geography | 3 |

6 credits from

| | | | |
|------|-----|------------------------------------|---|
| GEOG | 323 | Tourism and Geography of Food (3) | |
| | 344 | Adv Geog Info Systems Analysis (3) | |
| NREM | 309 | Human Dimensions Global Change (3) | 6 |

6 credits from

| | | | |
|------|-----|-----------------------------------|--------|
| GEOG | 351 | Latin American and Caribbean (3) | |
| | 354 | Geography of Asia (3) | |
| | 356 | Geog Russia and Its Neighbors (3) | |
| | 357 | Geography of Europe (3) | 6 |
| | | | <hr/> |
| | | | 51 crs |

Minors in related fields are recommended.

Department of Geological Sciences

Revised:

MAJOR IN EARTH SCIENCE (BA/BS), 64 credits

Students are expected to have completed mathematics through MATH 112 or their high school equivalent as approved by the primary departmental advisor.

| <i>PREFIX</i> | <i>NO</i> | <i>SHORT TITLE</i> | <i>CREDITS</i> |
|---------------|-----------|--------------------------------|----------------|
| CHEM | 111 | General Chemistry 1 | 4 |
| GEOG | 230 | Elementary Meteorology | 3 |
| GEOG | 101 | Planet Earth Geol Environment | 3 |
| | 105 | Lab in Physical Geology | 1 |
| | 201 | Earth, Life, and Time | 3 |
| | 207 | Environ Geology Geochem Cycles | 3 |
| | 220 | Earth Materials | 3 |
| | 240 | Geomorphology | 3 |
| | 290 | Computer Applic Geosciences | 1 |
| | 308 | Sedimentary Geology | 3 |
| | 310 | Igneous Metamorphic Petrology | 3 |
| | 315 | Structural Geology Tectonics | 4 |
| | 350 | Physical Hydrology | 3 |
| | 383 | Field Geology | 6 |
| | 420 | Oceanography | 3 |

| | | | |
|------|-----|----------------|---|
| NREM | 221 | Soil Resources | 3 |
|------|-----|----------------|---|

9-12 credits from

| | | | |
|------|-----|-----------------------------------|------|
| GEOG | 409 | Micropaleontology (3) | |
| | 411 | Advanced Ign Met Petrology (3) | |
| | 412 | Sedimentary Petrology (3) | |
| | 413 | Experimental Petrology (3) | |
| | 416 | Geology Hazards Environment (3) | |
| | 425 | Geophysics (3) | |
| | 434 | Applied Biostratigraphy (3) | |
| | 435 | Sequence Stratigraphy (3) | |
| | 440 | Karst and Carbonates (3) | |
| | 461 | Hydrogeology (3) | |
| | 462 | Env Geol in the Field and Lab (3) | |
| | 470 | Groundwater Geochemistry (3) | |
| | 471 | Volcanology and Volc Hazards (3) | |
| | 475 | Glacial Geology (3) | 9-12 |

3-6 credits from

| | | | |
|------|-----|------------------------------------|-----|
| GEOG | 265 | Intro Geographic Info Systems (3) | |
| | 331 | Global Climatology (3) | |
| | 342 | Introduction to Remote Sensing (3) | |
| NREM | 324 | Soil Classification Interpret (3) | 3-6 |

64 crs

Recommended: CS 120 and one year of college chemistry or physics or both. Recommended majors and minors include anthropology, biology, business administration, chemistry, economics, modern languages and classics, geography, mathematics, natural resources, and physics.

MAJOR IN GEOLOGY (BA/BS), 68-70 credits

Students are expected to have completed mathematics through MATH 112 or the high school equivalent as approved by the primary departmental advisor.

| <i>PREFIX</i> | <i>NO</i> | <i>SHORT TITLE</i> | <i>CREDITS</i> |
|---------------|-----------|--------------------------------|----------------|
| CHEM | 111 | General Chemistry 1 | 4 |
| | 112 | General Chemistry 2 | 4 |
| GEOG | 101 | Planet Earth Geol Environment | 3 |
| | 105 | Lab in Physical Geology | 1 |
| | 201 | Earth, Life, and Time | 3 |
| | 207 | Environ Geology Geochem Cycles | 3 |
| | 220 | Earth Materials | 3 |
| | 240 | Geomorphology | 3 |
| | 290 | Computer Applic Geosciences | 1 |
| | 308 | Sedimentary Geology | 3 |
| | 310 | Igneous Metamorphic Petrology | 3 |
| | 315 | Structural Geology Tectonics | 4 |
| | 350 | Physical Hydrology | 3 |
| | 383 | Field Geology | 6 |
| PHYC | 110 | General Physics 1 | 4 |
| | 112 | General Physics 2 | 4 |

12 credits from

| | | | |
|------|-----|--------------------------------|--|
| GEOG | 409 | Micropaleontology (3) | |
| | 411 | Advanced Ign Met Petrology (3) | |
| | 412 | Sedimentary Petrology (3) | |
| | 413 | Experimental Petrology (3) | |

| | | |
|-----|-----------------------------------|----|
| 416 | Geology Hazards Environment (3) | |
| 420 | Oceanography (3) | |
| 425 | Geophysics (3) | |
| 434 | Applied Biostratigraphy (3) | |
| 435 | Sequence Stratigraphy (3) | |
| 440 | Karst and Carbonates (3) | |
| 461 | Hydrogeology (3) | |
| 462 | Env Geol in the Field and Lab (3) | |
| 470 | Groundwater Geochemistry (3) | |
| 471 | Volcanology and Volc Hazards (3) | |
| 475 | Glacial Geology (3) | 12 |

4-6 credits from

| | | | |
|------|-----|------------------------|-----|
| MATH | 161 | Applied Calculus 1 (3) | |
| | 162 | Applied Calculus 2 (3) | |
| | 165 | Calculus 1 (4) | 4-6 |

68-70 crs

Skills in a modern foreign language are encouraged. Recommended minors include biology, chemistry, physics, computer science, economics, geography, mathematics, and natural resources.

GEOLOGY (GEOL)

Dropped:

360 Hydrogeology (3)

Revised:

461 (360) Hydrogeology (3) An intensive survey of the physical properties of groundwater flow and the classic literature of aquifer studies.

Prerequisite: GEOL 350, and MATH 161 or 165, and PHYC 110, or permission of the department chairperson.

Not open to students who have credit in GEOL 560.

Department of History

Revised:

MAJOR IN HISTORY (BA/BS), 39-42 credits

| PREFIX | NO | SHORT TITLE | CREDITS |
|--------|----|-------------|---------|
|--------|----|-------------|---------|

Complete one concentration

Concentration 1: Major, 39 credits

Core requirements, 18 credits

| | | | |
|------|-----|-----------------------------|--------|
| HIST | 151 | World Civilization 1 | 3 |
| | 152 | World Civilization 2 | 3 |
| | 200 | Intro History Methods | 3 |
| | 201 | American History, 1492-1876 | 3 |
| | 202 | US History, 1877 to Present | 3 |
| | 470 | Senior Seminar | 3 |
| | | | <hr/> |
| | | | 18 crs |

21 additional credits in HIST other than HIST 150:

| | |
|---|--------|
| 3 additional credits in World history outside Europe (Asia, Middle East, Africa, Latin America) | 3 |
| 3 additional credits in European history | 3 |
| 3 additional credits in United States history | 3 |
| 3 credits from Topics courses | 3 |
| 9 credits from electives in history | 9 |
| <hr/> | |
| | 21 crs |

At least 15 of these 21 additional credits must be in courses numbered HIST 301 and above.

Students must register for HIST 200 before completing 15 credits in the major. Students are strongly encouraged to complete HIST 151, 152, 200, 201, and 202 before taking courses at HIST 301 or above.

Students who intend to go to graduate or professional school are strongly encouraged to pursue a BA in concentration 1.

Each individual course section can only be used to fulfill one of the requirements in World, European, United States, or Topics.

Concentration 2: Public history, 39-42 credits

Public history core requirements, 18 credits

| | | | |
|------|-----|--------------------------------|--------|
| HIST | 151 | World Civilization 1 | 3 |
| | 152 | World Civilization 2 | 3 |
| | 200 | Intro History Methods | 3 |
| | 201 | American History, 1492-1876 | 3 |
| | 202 | US History, 1877 to Present | 3 |
| | 240 | Introduction to Public History | 3 |
| | | | <hr/> |
| | | | 18 crs |

21-24 additional credits in HIST other than HIST 150:

| | | | |
|---|-----|----------------------------------|-----------|
| HIST | 369 | Public History Internship (3-12) | 9-12 |
| 3 additional credits in European or World history | | | 3 |
| 6 additional credits from United States history | | | 6 |
| 3 credits from electives in HIST | | | 3 |
| | | | <hr/> |
| | | | 21-24 crs |

At least 9 of these 12 credits must be in courses numbered HIST 301 and above.

Students must register for HIST 200 before completing 15 credits in the major. Students are strongly encouraged to complete HIST 151, 152, 200, 201, and 202 before taking courses at HIST 301 or above.

Admission and retention standards for concentration 2:

- Students must earn grades of at least C in all completed history courses with a combined history grade-point

average of at least 3.0.

- Candidates for internships must fill out applications with the program coordinator at least five months in advance of the time of the intended internships.
- To qualify for the internship (HIST 369), students must have taken the required history courses and completed 30 credits in HIST.
- An overall grade-point average of 2.75 is required before enrolling in the internship.
- A written project approved by the coordinator and related to the internship is required.
- Credit received by students serving as assistants in departmental courses is not applicable to internship credit in this concentration.
- Students who do not meet the above requirements may appeal to the program coordinator for a waiver, first by written request and then by making an oral presentation.

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

(See Teaching Major in Social Studies, College of Sciences and Humanities, p. 245, for total requirements for this area.)

PREFIX NO SHORT TITLE CREDITS

Categories of history courses:

Category 1: U.S. History

| | | |
|------|-----|------------------------------------|
| HIST | 210 | Introduction to Black History (3) |
| | 215 | Women in American History (3) |
| | 318 | History of the American West (3) |
| | 400 | Colonial America 1492-1763 (3) |
| | 401 | Revolutionary America to 1800 (3) |
| | 405 | Pre-Civil War America, 1800-48 (3) |
| | 407 | US Civil War and Reconstruct (3) |
| | 409 | Age of Reform (3) |
| | 411 | Prosperity, Depression, War (3) |
| | 413 | Post-World War II America (3) |
| | 415 | History of Indiana (3) |
| | 416 | Pre-Civil War South, 1776-1861 (3) |
| | 417 | History of the New South (3) |
| | 430 | US Diplomatic History to 1914 (3) |
| | 432 | US Diplomacy Since 1914 (3) |

Category 2: European History

| | | |
|------|-----|------------------------------------|
| HIST | 454 | Era of World War I, 1870-1918 (3) |
| | 455 | Era of World War II, 1918-1945 (3) |
| | 456 | Europe Since 1945 (3) |
| | 461 | Development Greek Civilization (3) |
| | 462 | Development Roman Civilization (3) |
| | 463 | Medieval Civilization (3) |
| | 464 | Byzantine Civilization (3) |
| | 467 | Renaissance and Reformation (3) |
| | 471 | France Since 1789 (3) |
| | 475 | Britain, 1485-1714 (3) |
| | 476 | Britain, 1760 to the Present (3) |
| | 481 | Modern Germany (3) |
| | 482 | Celtic Peoples Cultural Hist (3) |
| | 483 | Irish History (3) |
| | 486 | Russian Civilization to 1917 (3) |
| | 487 | Soviet and Post-Soviet History (3) |

Category 3: World History

| | | |
|------|-----|------------------------------------|
| HIST | 370 | Foundations Asian Civilization (3) |
| | 371 | Tradition and Chng Modern Asia (3) |
| | 372 | Africa Since 1500 (3) |
| | 373 | History of the Middle East (3) |
| | 441 | Comparative Slavery (3) |
| | 484 | Southern Africa (3) |
| | 493 | History Pre-modern East Asia (3) |
| | 495 | Modern China, 1600 to Present (3) |
| | 496 | Modern Japan, 1600 to Present (3) |

Category 4: Topics in History

| | | |
|------|-----|-------------------------------------|
| HIST | 235 | Historical Topics in Film (3) |
| | 301 | The US and the Vietnam War (3) |
| | 303 | Oral History Workshop (3) |
| | 310 | Intro History of US Business (3) |
| | 324 | Selected Topics Latin Am Hist (3) |
| | 338 | United States Urban History (3) |
| | 360 | Topics in Military History (3) |
| | 421 | Am Indians in Colonial and US (3) |
| | 422 | Topics History Popular Culture (3) |
| | 423 | Topics in Religious History (3) |
| | 424 | Topics Race, Ethnic, Immigrant (3) |
| | 425 | Topics US Western History (3) |
| | 426 | Topics in African History (3) |
| | 427 | Topics in Asian History (3) |
| | 446 | History in the Digital Age (3) |
| | 452 | Women Modern European History (3) |
| | 491 | Topics in Middle East History (3) |
| | 497 | Selected Topics European Hist (3-6) |
| | 499 | Selected Topics American Hist (3-6) |

Please consult the department chairperson for more information.

Historical perspectives area, 30 credits

| | | | |
|------|-----|-----------------------------|---|
| HIST | 151 | World Civilization 1 | 3 |
| | 152 | World Civilization 2 | 3 |
| | 200 | Intro History Methods | 3 |
| | 201 | American History, 1492-1876 | 3 |
| | 202 | US History, 1877 to Present | 3 |

| | |
|-----------------------------|--------|
| Two courses from category 1 | 6 |
| One course from category 2 | 3 |
| One course from category 3 | 3 |
| One course from category 4 | 3 |
| | <hr/> |
| | 30 crs |

| | |
|---|--------|
| Second licensure area | 15 |
| And one course (3 credits each) from each of four remaining areas (economics, geography, government, psychology, and sociology) | 12 |
| | <hr/> |
| | 57 crs |

Students must register for HIST 200 before completing 15 credits in history. The department strongly encourages students to consider taking HIST 470 and two other courses required to complete an additional departmental major in history.

HISTORY (HIST)

Dropped:

300 Internship (3-12)

488 History of South Asia (3)

492 History of China to 1600 (3)

New:

470 Senior Seminar (3) An investigation in some depth of a historical topic, culminating in an individual capstone project that demonstrates command of 1) historical research methods; 2) the relevant scholarly literature; 3) historical interpretations and analysis; and 4) historical writing. Topics will vary by section and will be announced in advance by the instructor. Required of all concentration 1 majors.

Prerequisite: completion of HIST 200; and senior standing or permission of the department chairperson.

Open only to history concentration 1 majors.

Revised:

310 Introduction to the History of Business in the United States (3) Examines events in American business history from colonial times to the present, with emphasis on the 20th and 21st centuries.

369 Public History Internship (3-12) The public history internship provides a for-credit, supervised, on-the-job experience in a public history field that closely aligns with the student's professional career goals.

A total of 12 credits may be earned.

407 American Civil War and Reconstruction, 1848-1877 (3) Survey, analysis, and discussion of events, leaders, and movements, with special emphasis on causes, interpretation, and historiography of the period of national crisis and war followed by national reconstruction.

471 France Since 1789 (3) An examination of the major political, diplomatic, military, economic, and social developments that have shaped French history since the French Revolution of 1789.

Department of Mathematical Sciences

Revised:

MASTER OF ARTS IN ACTUARIAL SCIENCE, 30-33 credits

The master's program in actuarial science provides training for careers that involve analyzing and solving financial, business, and social problems related to economic risk. The program includes course work that prepares students for the professional

examinations given by the Society of Actuaries and the Casualty Actuarial Society.

Admission requirements

Applicants must meet the regular admission requirements of the Graduate School. It is also expected that students will have had three semesters of calculus, a course in linear algebra, at least one semester of probability and one semester of statistics.

Degree requirements

| PREFIX | NO | SHORT TITLE | CREDITS |
|--------|----|-------------|---------|
|--------|----|-------------|---------|

| | | | |
|---|-----|----------------------------|-----|
| Financial Mathematics, 3-4 credits | | | |
| MATH | 551 | Mathematics of Finance (4) | 3-4 |
| (Program advisor will approve 3-4 credit substitution in financial mathematics for students who have passed Exam FM.) | | | |

| | | | |
|------|-----|----------------------|---|
| MATH | 552 | Life Contingencies 1 | 4 |
| | 553 | Life Contingencies 2 | 4 |

| | | | |
|---|-----|---------------------------------|-----|
| Probability, 3-4 credits | | | |
| MATH | 620 | Probability and Random Vars (4) | 3-4 |
| (Program advisor will approve 600-level 3-4 credit substitution in probability/statistics for students who have passed Exam P.) | | | |

| | | | |
|------|-----|-------------------------------|---|
| MATH | 557 | Actuarial Models 1 | 4 |
| | 559 | Models in Financial Economics | 3 |
| | 692 | Actuarial Science Exit Survey | 0 |

3-8 credits from

| | | | |
|------|-----|-----------------------------------|-----|
| FIN | 500 | Corporation Finance (3) | |
| MATH | 528 | Regression Time Series Models (3) | |
| | 554 | Mathematics of Investments (3) | |
| | 558 | Actuarial Models 2 (3) | |
| | 621 | Theory of Statistics (4) | |
| | 624 | Intro to Statistical Learning (3) | |
| | 626 | Stochastic Processes (3) | |
| | 627 | General Linear Model Applicat (3) | |
| | 628 | Comput Methods in Statistics (3) | |
| | 655 | Topics in Actuarial Science (1-4) | |
| | 658 | Risk Theory (3) | |
| RMI | 570 | Risk Management and Insurance (3) | 3-8 |

More credits from this list will be required if courses are waived due to undergraduate or actuarial exam credit.

Research component, 3-6 credits from

| | | | |
|------|-----|-----------------------------------|-----|
| MATH | 659 | Research in Actuarial Science (3) | |
| THES | 698 | Thesis (1-6) | 3-6 |

30-33 crs

MASTERS IN MATHEMATICS, 30-32 credits

The masters degree in mathematics provides students with a broad graduate-level mathematical background suitable for community college teaching, for pursuing a PhD degree in the mathematical sciences, or for seeking employment in business,

industry, or government. Students pursuing the master of science degree will be required to write a 6-credit thesis.

Admission requirements

Applicants must meet the regular admission requirements of the Graduate School and have an undergraduate major in mathematics or an equivalent background as determined by the Department of Mathematical Sciences.

Master of Arts in Mathematics, 30-32 credits

Degree requirements

PREFIX NO SHORT TITLE CREDITS

Algebra, 6 credits
 MATH 511 Abstract Algebra 1 3
 512 Abstract Algebra 2 3

(If the undergraduate equivalent is not complete. Otherwise course substitutions in algebra will be made in conjunction with the program advisor.)

Analysis, 6-7 credits from
 MATH 571 Real Analysis 1 (4)
 572 Real Analysis 2 (3) 6-7

(If the undergraduate equivalent is not complete. Otherwise 3-credit course substitutions in analysis will be made in conjunction with the program advisor.)

MATH 645 Topology 1 3
 675 Measure Thry and Integration 1 3
 677 Complex Variables 1 3

3-7 credits from
 MATH 515 Coding and Communication (3)
 516 Theory of Numbers (3)
 541 Geometry and Topology (3)
 545 Differential Geometry (3)
 556 Intro Operations Research (3)
 562 Numerical Analysis 1 (3)
 563 Numerical Analysis 2 (3)
 573 Boundary Value Problems (3)
 575 Topics Partial Dif Equations (3)
 620 Probability and Random Vars (4)
 626 Stochastic Processes (3)
 646 Topology 2 (3)
 676 Measure Thry and Integration 2 (3)
 678 Complex Variables 2 (3) 3-7

Research component, 3-6 credits from
 MATH 689 Research Methods Math Stats (3)
 694 Research Methods Math Educat (3)
 THES 698 Thesis (1-6) 3-6

30-32 crs

Master of Science in Mathematics, 30-32 credits

Degree requirements

PREFIX NO SHORT TITLE CREDITS

Algebra, 6 credits
 MATH 511 Abstract Algebra 1 3
 512 Abstract Algebra 2 3

(If the undergraduate equivalent is not complete. Otherwise course substitutions in algebra will be made in conjunction with the program advisor.)

Analysis, 6-7 credits from
 MATH 571 Real Analysis 1 (4)
 572 Real Analysis 2 (3) 6-7

(If the undergraduate equivalent is not complete. Otherwise 3-credit course substitutions in analysis will be made in conjunction with the program advisor.)

MATH 645 Topology 1 3
 675 Measure Thry and Integration 1 3
 677 Complex Variables 1 3

3-4 credits from
 MATH 515 Coding and Communication (3)
 516 Theory of Numbers (3)
 541 Geometry and Topology (3)
 545 Differential Geometry (3)
 556 Intro Operations Research (3)
 562 Numerical Analysis 1 (3)
 563 Numerical Analysis 2 (3)
 573 Boundary Value Problems (3)
 575 Topics Partial Dif Equations (3)
 620 Probability and Random Vars (4)
 626 Stochastic Process (3)
 646 Topology 2 (3)
 676 Measure Thry and Integration 2 (3)
 678 Complex Variables 2 (3) 3-4

THES 698 Thesis (1-6) 6

30-32 crs

MASTERS IN STATISTICS, 32 credits

The master's program in statistics provides students with the background suitable for employment as a statistician in business, industry, or government. The degree also provides suitable preparation for pursuing a PhD degree in statistics. Students pursuing the master of science degree will be required to complete a 6-credit thesis.

Admission requirements

Applicants must meet the regular admission requirements of the Graduate School. It is also expected that students will have had three semesters of calculus and a course in linear algebra.

Master of Arts in Statistics, 32 credits

Degree requirements

PREFIX NO SHORT TITLE CREDITS

| | | | |
|------|-----|-------------------------------|---|
| MATH | 528 | Regression Time Series Models | 3 |
| | 620 | Probability and Random Vars | 4 |
| | 621 | Theory of Statistics | 4 |
| | 624 | Intro to Statistical Learning | 3 |
| | 627 | General Linear Model Applicat | 3 |
| | 628 | Comput Methods in Statistics | 3 |
| | 689 | Research Methods Math Stats | 3 |

9 credits from

| | | | |
|------|-----|------------------------------------|--------|
| MATH | 522 | Theory Sampling and Surveys (3) | |
| | 523 | Environmental Statistics (3) | |
| | 529 | Analysis Variance Exp Design (3) | |
| | 626 | Stochastic Processes (3) | |
| | 675 | Measure Thry and Integration 1 (3) | 9 |
| | | | <hr/> |
| | | | 32 crs |

Master of Science in Statistics, 32 credits

| PREFIX | NO | SHORT TITLE | CREDITS |
|--------|----|-------------|---------|
|--------|----|-------------|---------|

| | | | |
|------|-----|-------------------------------|---|
| MATH | 528 | Regression Time Series Models | 3 |
| | 620 | Probability and Random Vars | 4 |
| | 621 | Theory of Statistics | 4 |
| | 624 | Intro to Statistical Learning | 3 |
| | 627 | General Linear Model Applicat | 3 |
| | 628 | Comput Methods in Statistics | 3 |
| THES | 698 | Thesis (1-6) | 6 |

6 credits from

| | | | |
|------|-----|------------------------------------|--------|
| MATH | 522 | Theory Sampling and Surveys (3) | |
| | 523 | Environmental Statistics (3) | |
| | 529 | Analysis Variance Exp Design (3) | |
| | 626 | Stochastic Processes (3) | |
| | 675 | Measure Thry and Integration 1 (3) | 6 |
| | | | <hr/> |
| | | | 32 crs |

CERTIFICATE IN STATISTICAL MODELING, 12 credits

The Certificate in Statistical Modeling provides students with the statistical modeling expertise that is part of the Master's in Statistics. All 12 credits of this certificate can be applied to the MA/MS in Statistics programs.

Admission requirements

Applicants must meet the regular admission requirements of the Graduate School. It is also expected that students will have had three semesters of calculus, one semester of linear algebra, one semester of probability, and one semester of statistics.

| PREFIX | NO | SHORT TITLE | CREDITS |
|--------|----|-------------|---------|
|--------|----|-------------|---------|

| | | | |
|------|-----|-------------------------------|--------|
| MATH | 528 | Regression Time Series Models | 3 |
| | 529 | Analysis Variance Exp Design | 3 |
| | 627 | General Linear Model Applicat | 3 |
| | 628 | Comput Methods in Statistics | 3 |
| | | | <hr/> |
| | | | 12 crs |

MATHEMATICAL SCIENCES (MATH)

Revised:

161 Applied Calculus 1 (3) Discussion of limits, derivatives (including those of exponential, logarithmic, and trigonometric functions), differentials, and definite and indefinite integrals. Focuses on the application of these topics in the applied sciences. Core Transfer Library: Mathematics (IMA 1604)

Prerequisite: C- or better in MATH 111 and MATH 112, or an appropriate score on the SAT/ACT or mathematics placement test, or permission of the department chairperson.

Not open to students who have credit in MATH 165.

201 Number, Operations, and Algebraic Reasoning for the Elementary Teacher (4) In-depth treatment of concepts underlying common topics in the elementary mathematics curriculum including concepts in number, operations, and algebraic reasoning. Participants engage in purposeful activities that grow out of problem situations that require reasoning and creative thinking, gathering and applying information, discovering, inventing, communicating ideas, and testing those ideas through critical reflection and discussion.

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

Open only to concentration 1 mathematics teaching majors, or majors in elementary, special, or early childhood education.

Department of Natural Resources and Environmental Management

NATURAL RESOURCES AND ENVIRONMENTAL MANAGEMENT (NREM)

Dropped:

387 Solid and Hazardous Waste Management (3)

553 Turfgrass Management (3)

New:

491 Environmental Readings (1-3) Individual or small-group discussions relevant to natural resources or environmental studies/sciences/management.

Prerequisite: NREM 101 or equivalent.

A total of 3 credits may be earned.

Revised:

241 Air Resources (3) Survey of atmospheric characteristics and processes as they influence management of natural resources. Current air pollution issues; regulatory requirements and practices. Laboratory and field experiences.

Prerequisite: CHEM 111; MATH 108 or appropriate math placement score and permission of the instructor.

286 Computer and Quantitative Applications (3) Work with various computer tools and data analysis packages as applied to topics in resource management. Requires basic understanding of computer operation.

Prerequisite: MATH 125; MATH 108 or appropriate math placement score and permission of the instructor.

Open only to NREM majors; others by permission of the department chairperson.

487 (387) Solid and Hazardous Waste Management (3)

Delineation of solid and hazardous waste management in the United States. Waste reduction, recycling, processing, and disposal methods are discussed. Technical, political, and economic aspects of waste management. Effects of improper disposal on environmental quality.

Prerequisite: junior standing or permission of the department chairperson.

488 Site Assessment and Remediation (3) Experience with Phase I and Phase II environmental site assessments.

Conventional and innovative technologies for remediation of contaminated soils and groundwater. Review of relevant environmental regulations. Some environmental chemistry.

Open only to juniors or seniors.

588 Site Assessment and Remediation (3) Experience with Phase I and Phase II environmental site assessments.

Conventional and innovative technologies for remediation of contaminated soils and groundwater. Review of relevant environmental regulations. Some environmental chemistry.

Department of Psychological Science

Revised:

Admission requirements

Applicants must meet the admission requirements of the Graduate School; have an undergraduate grade-point average of at least 3.0 on a 4.0 scale; submit scores from the Graduate Record Examination (GRE); submit three letters of reference, transcripts of all previous graduate and undergraduate course work, and departmental applications; and have taken undergraduate courses in psychology that include experimental design and methodology and statistics.

MASTER OF ARTS IN CLINICAL PSYCHOLOGY, 44-50 credits

A two-year program designed to prepare students to be competitive candidates for psychology doctoral programs and to enhance students' research skills by offering them a wide range of research experience from assisting faculty researchers to completing their own independent research projects. The program consists of a rigorous combination of classroom and research experiences.

Degree requirements

| PREFIX | NO | SHORT TITLE | CREDITS |
|--------|-----|--------------------------------|---------|
| EDPS | 642 | Analysis of Variance | 3 |
| PSYS | 632 | Abnormal Psychology | 3 |
| | 640 | Foundations in Assessment | 3 |
| | 652 | Psychotherapy | 3 |
| | 668 | Physiological Psychology | 3 |
| | 680 | Research Methods in Psychology | 3 |
| | 681 | Applied Methods | 4 |
| | 690 | Colloquium (1) | 4 |
| | 696 | Clinical Diversity Seminar | 3 |

3 credits from

| | | | |
|------|-----|----------------------------------|---|
| EDPS | 730 | Nonparametric Statistics (3) | |
| | 740 | Categorical Data Analysis (3) | |
| | 741 | Applied Regression Analysis (3) | |
| | 742 | Multivariate Statistics (3) | |
| | 743 | Factor Analysis (3) | |
| | 744 | Structural Equation Modeling (3) | |
| | 746 | Theory of Measurement (3) | 3 |

Concentrations/Electives

Minimum of 12 additional credits in electives, certificate, and/or concentration. Concentrations and certificates are optional. If concentration and/or certificates are selected, the credits will count toward the electives. Additional electives approved by the graduate program director. A concentration requires a minimum of 18 credits.

12

44 crs

The university research and writing requirement is met by PSYS 680 and EDPS 642. PSYS 690 is required every semester, for 2 years. All graduate courses in psychological science include exposure to culturally-diverse content.

Concentration: Clinical/Counseling, 18 credits

Students may complete this concentration and/or one certificate listed below. If certificate is selected, the credits will count toward the concentration requirements.

Certificate in Applied Behavior Analysis

Certificate in Autism

Certificate in Neuropsychology

Certificate in Human Development and Learning

| PREFIX | NO | SHORT TITLE | CREDITS |
|--------|-----|-----------------------------------|---------|
| PSYS | 613 | Developmental Psychology (3) | |
| | 685 | Applied Research Internship (3-6) | |
| CPSY | 606 | Pre-Practicum Skills (3) | |
| | 607 | Appraisal Methods (3) | |
| | 608 | Psychosocial Rehabilitation (3) | |
| | 610 | Career Theories and Realities (3) | |
| | 634 | Intro Behavioral Medicine (3) | |
| | 644 | Practicum in Counseling (3) | |
| | 662 | Couples Sex Therapy (3) | |
| | 664 | Family Therapy (3) | |
| | 675 | Counseling Gifted (3) | |
| | 676 | Counseling Older Adults (3) | |
| | 680 | Social Justice (3) | |

Concentration: Assessment, 18 credits

Students may complete this concentration and/or one certificate listed below. If certificate is selected, the credits will count toward the concentration requirements.

- Certificate in Institutional Research
- Certificate in Neuropsychology

| <i>PREFIX</i> | <i>NO</i> | <i>SHORT TITLE</i> | <i>CREDITS</i> |
|---------------|-----------|------------------------------------|----------------|
| PSYS | 685 | Applied Research Internship (3) | |
| | 697 | Research Diversity Seminar (3) | |
| CPSY | 610 | Career Theories and Realities (3) | |
| | 614 | Career Counseling Assessment (3) | |
| EDPS | 646 | Tests and Measurements (3) | |
| | 650 | Individual Testing WS (3) | |
| | 652 | Intro Neuropsychology (3) | |
| | 656 | Pediatric Neuropsychology (3) | |
| | 660 | Diagnosis Learning Disorders (3) | |
| | 746 | Theory of Measurement (3) | |
| | 750 | Developmental Psychopath (3) | |
| | 752 | Practicum Neuro Assessment (3) | |
| SPCE | 612 | Theory and Pract EC Special Ed (3) | |
| | 613 | Assessment Strategies in ECSE (3) | |
| | 680 | Intro Persons Aut Spec Dis (3) | |
| | 682 | Interv and Treat Persons Aut (3) | |
| | 686 | Intro: Mild Interventions (3) | |
| | 687 | Educ Assessment: Mild Int (3) | |
| | | | 18 crs |

Concentration: Cultural Diversity, 18 credits

Students may complete this concentration and/or one certificate listed below. If certificate is selected, the credits will count toward the concentration requirements:

- Certificate in Diversity Studies
- Certificate in Gerontology

| <i>PREFIX</i> | <i>NO</i> | <i>SHORT TITLE</i> | <i>CREDITS</i> |
|---------------|-----------|---------------------------------------|----------------|
| PSYS | 524 | Psychology of Women (3) | |
| | 685 | Applied Research Internship (3) | |
| | 697 | Research Diversity Seminar (3) | |
| ANTH | 527 | Culture and Medicine (3) | |
| | 541 | Anthropology of Gender (3) | |
| COMM | 645 | Intercultural Communication (3) | |
| EDPS | 603 | Human Development (3) | |
| | 629 | Adult Development (3) | |
| GERO | 540 | Women and Aging (3) | |
| SOC | 520 | Social Inequality (3) | |
| | 521 | Racial and Cultural Minorities US (3) | |
| | 522 | Analysis of Social Inequality (3) | |
| | 527 | Sociology of World Religions (3) | |
| | 531 | Social Gerontology (3) | |
| | 541 | Social Change (3) | |
| | 683 | Qualitative Research Methods (3) | |
| | | | 18 crs |

MASTER OF ARTS IN COGNITIVE AND SOCIAL PROCESSES, 44 credits

A two-year program designed to provide extensive training in cognitive psychology, social psychology, research methods, and statistics. Its primary purpose is to prepare students for doctoral programs in cognitive psychology, social psychology, or a related area.

Degree requirements

| <i>PREFIX</i> | <i>NO</i> | <i>SHORT TITLE</i> | <i>CREDITS</i> |
|----------------|-----------|------------------------------------|----------------|
| EDPS | 642 | Analysis of Variance | 3 |
| PSYS | 616 | Perception and Cognition | 3 |
| | 617 | Memory Processes | 3 |
| | 618 | Advanced Cognitive Processes | 3 |
| | 623 | Theories of Personality | 3 |
| | 668 | Physiological Psychology | 3 |
| | 680 | Research Methods in Psychology | 3 |
| | 681 | Applied Methods | 4 |
| | 690 | Colloquium (1) | 4 |
| | 697 | Research Diversity Seminar | 3 |
| 6 credits from | | | |
| PSYS | 695 | Seminar in Psychology (3) | |
| SOPS | 615 | Social Cognition (3) | |
| | 620 | Group Dynamics (3) | |
| | 640 | Social Psychology of Attitudes (3) | |
| | 660 | Contemporary Social Psychology (3) | 6 |

Additional electives approved by the graduate program director

6

44 crs

The university research and writing requirement is met by PSYS 680 and EDPS 642. All graduate courses in psychological science include diversity as a course objective. PSYS 695 must cover a social psychology topic. PSYS 690 is required every semester, for 2 years.

Teaching and Research Assistantships

Approximately 65 percent of students are awarded departmental assistantships and partial fee remissions. In return, students help faculty instructors or assist in faculty research. Exceptional second-year students may be offered the opportunity to teach introductory-level classes.

Interdepartmental Cooperative Arrangements

The department maintains a cooperative teaching and research arrangement with the counseling psychology and educational psychology departments for maximum flexibility in training.

Department of Sociology

Revised:

MAJOR IN SOCIOLOGY (BA/BS), 37 credits

| PREFIX | NO | SHORT TITLE | CREDITS |
|--------|-----|-------------------------------|---------|
| SOC | 100 | Principles of Sociology | 3 |
| | 200 | Sociological Thinking | 1 |
| | 380 | Sociological Research Methods | 3 |
| | 382 | Applied Social Statistics | 3 |
| | 402 | Sociological Theory | 3 |
| | 492 | Capstone Course in Sociology | 3 |

21 credits of electives in SOC (at least 12 credits must be at the 300-400 level)

21

37 crs

Students must earn a grade of C or better in SOC 100, 380, 382, 402, 492 for the course to count toward major requirements.

SOCIOLOGY (SOC)

Revised:

492 Capstone Course in Sociology (3) Capstone study expanding the scope of the undergraduate education via immersive learning experience.

Prerequisite: SOC 200, 380, 382; permission of the department chairperson.

Prerequisite or parallel: SOC 402.

Open only to sociology majors with GPA of 2.5 or greater in the major or senior standing.

TEACHERS COLLEGE

Department of Educational Psychology

Revised:

Add admission requirements statement to the beginning of the department:

Admission requirements

For all masters, specialist, and doctoral degrees, applicants must apply to both the Graduate School and the Department of Educational Psychology. Applicants are screened according to departmental criteria after they have been admitted by the Graduate School. Separate application forms are required by the Graduate School and the department.

MASTER OF ARTS IN EDUCATIONAL PSYCHOLOGY, 30 credits

Remove first paragraph, admission requirements, and degree requirements.

MASTER OF SCIENCE IN EDUCATIONAL PSYCHOLOGY, 33 credits

Remove statement at the end of the program.

MASTER OF ARTS IN SCHOOL PSYCHOLOGY, 30 credits

Designed for students seeking Indiana school psychologist licensure or school psychologist certification in other states. It is NASP/NCATE-approved and is patterned after guidelines suggested by the National Association of School Psychologists.

Combined Admission

In selected instances, applicants with baccalaureate degrees may be of such outstanding quality that they are eligible for concurrent admission into either the MA and EdS or the MA and PhD programs in school psychology. Applicants must meet the admission requirements of the Graduate School, achieve scores on the GRE at a level commensurate with master's degree applicants applying to the advanced degree programs, and submit the additional materials appropriate to the degree program desired (see Admission, Specialist in Education in Educational Psychology [School] or Doctor of Philosophy in Educational Psychology [School]). Candidates for admission must be approved by the department and should contact the program director for appropriate forms and additional information.

Degree requirements

Requirements include the satisfactory completion of a minimum of 30 credits of prescribed graduate courses with an overall grade-point average (GPA) of at least 3.0 and a GPA of 3.0 in courses in the major. Students seeking Indiana school psychologist licensure are required to complete at a minimum the EdS in Educational Psychology (School), which includes an academic-year internship. Check with the program director for any recent changes dictated by professional organizations or licensure requirements. All course work must be approved by the program director.

EdS IN EDUCATIONAL PSYCHOLOGY (SCHOOL), 73 credits

Degree requirements

Candidates for the specialist degree in educational psychology (school) at Ball State University must have satisfactorily completed a minimum of 73 graduate credits beyond the baccalaureate (that may include credit earned at the master's degree level); the departmentally approved examination; the professional portfolio of evidence; and supervised practicum and internship experiences. Because the specialist degree is intended for those seeking school psychologist licensure in

Indiana and other states, all course work must be approved by the program director.

Check with the program director for any recent changes dictated by professional organizations or licensure requirements.

| <i>PREFIX</i> | <i>NO</i> | <i>SHORT TITLE</i> | <i>CREDITS</i> |
|----------------|-----------|------------------------------------|----------------|
| CPSY | 621 | Theories and Techniques Couns (3) | |
| | or | | |
| | 688 | Group Counseling Techniques (3) | 3 |
| EDPS | 612 | Psychological Consultation | 2 |
| | 640 | Research Methods (3) | |
| | or | | |
| | 643 | Research Design (3) | 3 |
| | 641 | Intro Statistical Methods | 3 |
| | 651 | Personality Assessment | 3 |
| | 652 | Intro Neuropsychology | 3 |
| | 653 | Cognitive Assessment | 3 |
| | 654 | Acad Achieve Interv | 3 |
| | 685 | Intro School Psychology | 2 |
| | 686 | Pre-Practicum Consultation | 1 |
| | 687 | Pre-Prac School Psych (1-3) | 1 |
| | 688 | Practicum Consultation (3-6) | 3 |
| | 689 | Practicum School Psych (1-6) | 4 |
| | 690 | Superv Intern School Psych (3) | 6 |
| PSYS | 623 | Theories of Personality (3) | |
| | or | | |
| CPSY | 631 | Personality (3) | 3 |
| SPCE | 609 | Intro to App Beh Analy | 3 |
| | 610 | Behavioral Consultation | 3 |
| | 600 | Educ of Exc Children (3) | |
| | or | | |
| EDPS | 660 | Diagnosis Learning Disorders (3) | 3 |
| 3 credits from | | | |
| CPSY | 636 | Psychopathology (3) | |
| EDPS | 750 | Developmental Psychopath (3) | |
| PSYS | 632 | Abnormal Psychology (3) | 3 |
| 3 credits from | | | |
| EDCU | 601 | Princ and Proc of Curr Dev (3) | |
| | 610 | Elem Schl Curriculum (3) | |
| | 620 | Se School Curriculum (3) | |
| | 630 | Jr Hi and Mid School Curr (3) | 3 |
| 3 credits from | | | |
| EDPS | 600 | Adv Educational Psych (3) | |
| | 765 | Theories of Learning (3) | |
| | 768 | Theories Cognitive Development (3) | 3 |
| 3 credits from | | | |
| EDPS | 603 | Human Development (3) | |
| | 627 | Child Development (3) | |
| | 628 | Adolescent Development (3) | |
| | 720 | Development Theories Research (3) | 3 |
| 3 credits from | | | |
| EDRD | 610 | Teaching of Reading Elem Sch (3) | |

| | | |
|-----|------------------------------------|---|
| 620 | Disc Integ Lit in El Classroom (3) | |
| 640 | Issues in Teaching of Literacy (3) | |
| 680 | Classroom Literacy Assessment (3) | 3 |

3 credits from

| | | | |
|------|-----|------------------------------------|---|
| SOPS | 610 | Social Psychology (3) | |
| | 615 | Social Cognition (3) | |
| | 620 | Group Dynamics (3) | |
| | 640 | Social Psychology of Attitudes (3) | |
| | 655 | Counsel Apps of Soc Psych (3) | |
| | 660 | Contemporary Social Psychology (3) | 3 |

3 credits from

| | | | |
|------|-----|------------------------------------|---|
| CPSY | 678 | Counseling Culturally Diverse (3) | |
| EDEL | 644 | Education in a Diverse Society (3) | |
| EDFO | 651 | Educational Sociology (3) | |
| EDMU | 660 | Multcl Multieth Ed in Amer Sch (3) | |
| | 670 | Soc and Cultl Min in Amer Ed (3) | 3 |

73 crs

DOCTOR OF PHILOSOPHY IN EDUCATIONAL PSYCHOLOGY (GENERAL), 90 credits

Remove admission requirements, degree requirements, and text at the end of the program.

DOCTOR OF PHILOSOPHY IN EDUCATIONAL PSYCHOLOGY (SCHOOL), 132-138 credits

Remove admissions requirements.

Suspended:

CERTIFICATE IN INSTRUCTIONAL DESIGN AND ASSESSMENT (IDA), 15 credits

EDUCATIONAL PSYCHOLOGY (EDPS)

New:

769 Motivation and Self-Regulated Learning (3) Extensive review of contemporary theories and research in academic motivation and self-regulation with a special attention to practical applications and intervention development. Individual and contextual factors leading to optimal performance and psychological well-being will be examined.

778 Practicum in Evidence-Based Interventions (3) Directed and supervised experience in the provision of evidence-based behavioral, psychosocial and/or academic programs and interventions. Prevention programs and evidence-based services from a multi-tiered system of support model may also be included.

Prerequisite: EDPS 775 or 791; permission of the instructor. May take concurrently with EDPS 775.

Open only to graduate students enrolled in school psychology or counseling psychology programs.

Department of Elementary Education

Revised:

MASTER OF ARTS IN EDUCATION, ELEMENTARY EDUCATION, 30 credits

Admission requirements

Applicants must meet the admission requirements of the Graduate School.

Degree requirements

| <i>PREFIX</i> | <i>NO</i> | <i>SHORT TITLE</i> | <i>CREDITS</i> |
|--|-----------|------------------------------------|----------------|
| Required courses | | | |
| EDEL | 600 | Basic Concepts in Elem Educ (3) | |
| | | or | |
| | 640 | Early Childhood Education (3) | |
| | | or | |
| EDRD | 645 | History of Reading (3) | 3 |
| EDEL | 644 | Education in a Diverse Society (3) | |
| | | or | |
| EDRD | 627 | Tchg Literacy Diverse Learners (3) | 3 |
| EDRD | 610 | Teaching of Reading Elem Sch (3) | |
| | | or | |
| | 615 | Early Literacy Development (3) | |
| | | or | |
| | 620 | Disc Integ Lit in El Classroom (3) | 3 |
| Professional education core (Must include EDEL 676 Research in Elementary Educ) | | | 9 |
| Focus area Three courses approved by advisor | | | 9 |
| Directed elective | | | 3 |
| | | | <hr/> |
| | | | 30 crs |

This program is offered on-line only.

EDUCATION: ELEMENTARY (EDEL)

Revised:

657 Development, Implementation, and Evaluation of Elementary Classroom Programs (3) Competencies necessary for the elementary teacher to develop and implement programs in today's classrooms. Emphasizes processes, techniques, materials, resources, and models appropriate for enhancing educational experiences.

Laura Helms, Director
Office of Academic Systems