Minors/Certificates
Departments may require a minor for majors under the Bachelor of Arts, Bachelor of Science & Bachelor of Science in Education (Secondary). The areas in which minors are offered are:

- Accounting
- Administrative Systems Management
- Aerospace Studies
- Agriculture
- Anthropology
- Archaeology
- Architectural Design
- Art/Art History
- Biology
- Botany
- Business Administration
- Chemistry
- Child Life Services
- Child Studies
- Coaching
- Commercial Photography
- Communication Disorders
- Communication for Legal Professionals
- Communication Studies
- Companion Animals
- Computer Networking
- Computer Science
- Criminal Justice
- Criminology
- Dance
- Economics
- Electronics Technology
- Engineering Physics
- Entrepreneurship
- Environmental Science
- Environmental Soil Science
- Environmental Studies
- Exercise Science
- Family Economics & Management
- Family Studies
- Fashion Merchandising
- Finance
- French
- Geography
- Geoscience
- German
- Gerontology
- Graphic Communications Technology
- Health Promotion
- Historic Preservation
- History
- Horticulture
- Hospitality Management
- Human Resource Management
- Industrial Management
- Information Systems
- Interior Design
- International Business
- International Studies
- Literature
- Management
- Management Information Systems
- Marketing: Integrated Marketing Communications
- Marketing: Marketing Management
- Marketing: Retail Management
- Marketing: Sales Managements
- Mass Communication
- Mathematics
- Microbiology
- Music
- Nutrition
- Outdoor Adventure Leadership
- Philosophy
- Physics
- Political Science
- Psychology: Applied
- Psychology: Developmental
- Psychology: General
- Psychology: Psychological Services
- Public Administration
- Recreation
- Religion
- Small Press Publishing
- Social Rehabilitation & Treatment
- Social Work
- Sociology
- Soils
- Spanish
- Sport Management
- Technical Theatre
- TESOL
- Theatre: Acting/Directing
- Theatre: General
- Women's Studies
- Writing
- Zoology
ACCOUNTING
15 Hours Required
Required Courses:
AC 221 Princ of Accounting I (3)
AC 222 Princ of Accounting II (3)
Choose 9 Hours AC courses (300-500 level)

ADMINISTRATIVE SYSTEMS MANAGEMENT
18 Hours Required
Required Courses:
AD 101 Intro to Micro Applications (3)
AD 222 Micro Appl for Business (3)
AD 353 Administrative Systems Management (3)
MG 301 Principles of Management (3)
MG 252 Business Communication (3)
Choose 3 Hours From:
AD 210 Business Computing Fundamentals (3)
AD 331 Advanced Word Processing (3)
AD 341 Information Systems Procedures (3)
MG 356 Human Resources Mgt I (3)

AEROSPACE STUDIES
16 Hours Required
Required Courses:
AS 100 Foundation of USAF I (1)
AS 101 Foundation of USAF II (1)
AS 200 Evol of USAir/Space Power I (1)
AS 201 Evol of USAir/Space Power II (1)
AS 300 AF Leadership Studies I (3)
AS 301 AF Leadership Studies II (3)
AS 400 National Security Affairs (3)
AS 401 Preparation for Active Duty (3)

NOTE: AS 203 AFROTC Field Training (4) may be completed in lieu of AS 100, AS 101, AS 200, & AS 201

AGRICULTURE
15 Hours Required
Required Courses:
AO 120 Plant Science (3)
AO 125 Plant Science Lab (1)
AY 101 Animal Science (3)
AY 105 Animal Science Experience (2)
Choose 6 Hours AG, AO, AY, HO courses (300-400 level)

ANTHROPOLOGY
18 Hours Required
Required Courses:
AN 181 Intro Cultural Anthropology (3)
AN 317 Ethnographic Field Methods (3)
AN 341 Intro Linguistic Anthropology (3)
Choose 9 Hours From:
AN 100 Foundations of Human Behvr (3)
AN 101 Observing Other Cultures (3)
AN 180 Intro/Phys Anthro & Archaeology (3)
AN 250 World Archaeology (3)
AN 360 Meso-American Civilizations (3)
AN 493 Anthropology Theory Sem:Cult Anthr/Linguistics (3)

ARCHAEOLOGY
18 Hours Required
Required Courses:
AN 180 Intro/Phys Anthro & Archaeology (3)
AN 382 Archaeology: Method & Theory (3)
AN 313 Archaeological Fieldwork (3)
OR
AN 551 Historic Archaeology Fieldwork
Choose 9 Hours From:
AN 100 Foundations of Human Behvr (3)
AN 101 Observing Other Cultures (3)
AN 181 Intro Cultural Anthropology (3)
AN 250 World Archaeology (3)
AN 317 Ethnographic Field Methods (3)
AN 319 Archaeological Laboratory (3)
AN 360 Meso-American Civilizations (3)
AN 381 North American Archaeology (3)
AN 493 Anthropology Theory Sem:Cult Anthr/Linguistics (3)

ARCHITECTURAL DESIGN
15 Hours Required
Required Courses:
CM 100 Intro to Arch Drafting (3)
CM 126 Computer Aided Arch Drafting (3)
CM 226 Residential Arch Drft & Design (3)
Choose 6 Hours From:
CM 322 Commercial Arch Drft & Design (3)
HO 330 Landscape Planting Design (3)
UI 401 American Cultural Landscapes (3)
ART/ ART HISTORY

18 Hours Required
(6 Hours must be 300-500 level)

Required Course:
AH 210  Art History Survey II (3)
OR
AR 112  Perspectives in Art (3)

Choose 6 Hours From:
AH 110  Art History Survey I (3)
AR 100  Drawing I (3)
AR 104  Design Foundations (3)
AR 106  3-D Foundations (3)
AR 150  Structural Figure Drawing (3)
AR 201  Color Composition (3)

Choose 9 Hours From
(Related Courses Encouraged):
AH 310  Classical Art (3)
AH 311  Modern Art (3)
AH 312  Renaissance Art (3)
AH 510  Non-Western Art (3)
AH 511  American Art (3)
AH 512  Contemporary Art (3)
AH 514  Issues in Renaissance Art (3)
AH 516  Issues in Modern Art (3)
AR 202  Figure Drawing (3)
AR 302  Printmaking (3)
AR 322  Typography (3)
AR 324  Digital Art Photography (3)
AR 325  Painting (3)
AR 330  Fibers I (3)
AR 332  Sculpture I (3)
AR 342  Ceramics I (3)
AR 375  Art & New Technology (3)
AR 376  3-D Digital Animation (3)
AR 408  Studio Problems (3)
AR 416  Advanced Graphic Design (3)
AR 418  Intro to Web Design (3)
AR 425  Figurative Sculpture (3)
AR 426  Advanced Painting (3)
AR 431  Sculpture II (3)
AR 441  Ceramics II (3)
AR 501  Intaglio Printmaking (3)
AR 502  Lithography Printmaking (3)
AR 520  Figure Painting (3)
AR 530  Fibers II (3)
AR 541  Ceramics III (3)
UI 337  Issues/Modern Architecture (3)

BIOLOGY

21 Hours Required:
BI 151  Biological Reasoning (3)
BI 152  Intro to Scientific Investigation (1)
BI 153  Intro to Organismal Biology (4)
BI 154  Genetics & Cell Biology (4)

Choose 9 Hours From:
BI, BO, BT, ZO prefix courses at the 300-599 level

BOTANY

21 Hours Required

Required Courses:
BI 151  Biological Reasoning (3)
BI 152  Intro to Scientific Investigation (1)
BI 153  Intro to Organismal Biology (4)
BI 154  Genetics & Cell Biology (4)
BO 200  Plant Biology (3)

Choose 6 Hours From:
BI 384  Readings in Biology (1)
BI 485  Topics in Biology (3)
BI 493  Readings in Biology (2)
BI 589-591 Biological Research (1-3)
BO 361  Systematic Botany (3)
BO 420  Ethobotany (3)
BO 445  Plant Physiology (3)
BO 461  Native Aquatic Plants (3)
BO 469  Field Botany (2)

BUSINESS ADMINISTRATION

30 HOURS REQUIRED*
(For non-Business majors only)

Required Courses:
AC 221  Princ of Accounting I (3)
AC 222  Princ of Accounting II (3)
AD 101  Intro/Microcomputer Appl (3)
EC 225  Princ of Macroeconomics (3)
FI 361  Financial Management (3)
MA 139  Applied Calculus (3)
MG 301  Principles of Management (3)
MI 375  Management Info Systems (3)
MK 301  Principles of Marketing (3)
QM 257  Business Statistics (3)
*All courses require minimum grade of 'C'.
CHEMISTRY

19 Hours Required

Required Courses:
- CH 185 General Chemistry I (5)
- CH 186 General Chemistry II (3)
- CH 187 Qualitative Analysis (2)
- CH 271 Quantitative Analysis (4)
- CH 341 Organic Chemistry I (4)
- CH 342 Organic Chemistry Lab I (1)

CHILD LIFE SERVICES

21 Hours Required

Required Courses:
- CF 509 Child Life Services (3)
- CF 560 Child Life Services Practicum (6)
- HL 120 Health Perspectives (3)

OR
- RC 112 Intro to Music Therapy (3)
- RC 260 Intro to Therapeutic Rec (3)

Choose One 6 Hour Option

OPTION I

(For Psych/other majors)
- CF 290 Preschool Participation (2)
- CF 291 Preschool Participation Lab (1)
- CF 409 School Age Child Care (3)
- EX 200 Intro to Exceptional Child (3)

OPTION II

(For Child Devel/other majors)
- PY 222 Development of Adolescent (3)
- PY 250 Applied Psychology (3)
- PY 329 Psychology of Death & Dying (3)
- PY 444 Childhood Psychopathology (3)

NOTE: Child Life Services minors MUST have an advisor in the Department of Human Environmental Studies. Application for practicum must be filed with advisor at least one semester in advance.

CHILD STUDIES

18 Hours Required

Required Courses:
- CF 120 The Child (3)
- CF 200 Guiding Altern/Young Children (3)
- CF 290 Supervised Participation I (2)
- CF 291 Supervised Participation Lab (1)

Choose 3 Hours From:
- CF 210 Field Exp/Early Chldhd Prgms (3)
- CF 300 Parent Education (3)
- CF 301 Parent Education Lab (1)
- CF 316 Prenatal/Infant Grwth & Stim (3)
- CF 317 Prenat/Infant Grwth & Stim Lab (1)

Choose 6 Hours From:
- CF 126 Facil Devel in Young Children (3)
- CF 312 Org/Mgt of Child Care Centers (3)
- CF 409 School Age Child Care (3)
- CF 430 Parent/Child Interaction (3)
- CF 506 Theories/ Issues in Child Devel (3)
- FN 425 Health/Nutr/Safety of Yng Child (3)

COACHING

21 Hours Required

Required Courses:
- CG 470 Practicum in Coaching (3)
- PE 220 First Aid (2)
- PE 235 Psych/Coaching & Hum Perfrm (3)
- PE 341 Physiology of Conditioning (3)
- PE 460 Sports Administration I (3)
- SM 540 Leg Aspects/Sport & Phys Activity (3)

Choose 4.5 Hours From:
- CG 205 Coaching of Baseball (2)
- CG 210 Coaching of Basketball (2)
- CG 215 Coaching of Football (2)
- CG 220 Coaching of Softball/Volleyball (3)
- CG 225 Coaching of Track & Field (2)
- CG 235 Coaching of Soccer (2)

COMMERCIAL PHOTOGRAPHY

18 Hours Required

Required Courses:
- GM 200 Vector & Bitmapped Graphics for Ind (3)
- GM 284 Photography Fundamentals (3)
- GM 285 Commercial Photography Lighting (3)
- GM 286 Commercial Studio Photography (3)
- GM 384 Commercial Photography (3)
- GM 385 Non-Linear Video Editing (3)

COMMUNICATION DISORDERS

18-19 Hours Required

Required Courses:
- CD 225 Phonetics (4)
- CD 230 Intro to Comm Disorders (4)
- CD 340 Normal Spch & Lang Develop (3)
- CD 406 Svc Delivery in Comm Disorders (4)

Choose 3-4 Hours from:
- CD 371 Anatomy & Phys of Hearing Mech (3)
- CD 411 Nature of Assmnt/Intv Spch & Language (4)
- CD 426 Hrng Disorders: Audio Assessmnt (3)
COMMUNICATION FOR LEGAL PROFESSIONALS

15 Hours Required

Required Courses:
SC 200  Advanced Public Speaking (3)
SC 314  Argumentation & Problem Solving (3)
UI 425  Persuasion (3)

Choose 6 Hours From:
SC 160/161 Intercollegiate Debate (2)
SC 310  Speech Writing (3)
SC 335  Interviewing (3)
SC 400  Advanced Debate (3)
SC 406  Negotiation & Conflict Mgmt (3)
UI 345  Nonverbal Communication (3)
UI 423  Political Communication (3)

COMMUNICATION STUDIES

15 Hours Required

SC 320  Group Comm & Decision Making (3)
SC 355  Relational Comm Strategies (3)
UI 425  Persuasion (3)

Choose 6 Hours From:
SC 160/161 Intercollegiate Debate (2)
SC 200  Advanced Public Speaking (3)
SC 215  Intercultural Comm (3)
SC 310  Speech Writing (3)
SC 314  Argumentation & Problem Solving (3)
SC 330  Corporate & Professional Comm (3)
SC 335  Interviewing: Princ & Practices (3)
SC 400  Advanced Debate (3)
SC 406  Negotiation & Conflict Mgmt (3)
SC 482  Special Problems in Comm Studies (3)
SC 505  Criticism of Am Public Address (3)
SC 510  Leadership & Team Building (3)
SC 560  Organizational Communication (3)
UI 301  Managerial Communication Processes (3)
UI 345  Nonverbal Communication (3)
UI 423  Political Communication (3)

COMPANION ANIMALS

20 Hours Required

AY 101  Animal Science (3)
AY 105  Animal Science Experience (2)
AY 200  Companion Animals (3)
AY 205  Horse Science (3)
AY 304  Principles of Animal Nutrition (3)
AY 305  Advanced Horse Science (3)
AY 311  Animal Breeding (3)

COMPUTER NETWORKING

15 Hours Required

Required Courses:
TN 100  Networking Fund & Router Tech (3)
TN 101  Netwrk Design & Advanced Routing (3)
TN 255  Microcomputer Maint & Trblshtng (3)
TN 395  Server Maint & Trblshooting (3)
TN 565  Network Management (3)

COMPUTER SCIENCE

15 Hours Required

Required Courses:
CS 155  Computer Science I (4)
CS 265  Computer Science II (4)

Choose 7 Hours CS courses including 6 hours at the 300-500 level

CRIMINAL JUSTICE

15 Hours Required

15 hours in criminal justice, including 6 hours at the 300-500 level.

CRIMINOLOGY

21 Hours Required

Required Courses:
SO 205  Social Problems in America (3)
SO 240  Interpretation of Data (3)
SO 206  Social Problems of Childhood (3)
SI 309  Crime & Human Behavior (3)

Choose 3 Hours From Each of the Following Categories: The Legal System
BL 255  Legal Environment of Business (3)
CJ 220  Criminal Law (3)
PS 390  The American Judicial System (3)
PY 359  Psychology & the Law (3)

Deviance & the Individual
PY 440  Abnormal Psychology (3)
SO 206  Social Problems of Childhood (3)
UI 309  Crime & Human Behavior (3)

Social Problems & Applied Criminology
CJ 100  Intro to Criminal Justice (3)
EC 101  Econ Probl & Pols in the U.S. (3)
SW 310  Social Welfare Policies & Issues (3)
DANCE

23 Hours Required
Required Courses:
DA/TH 105 Rehearsal & Production (1)
DA/TH 305 Rehearsal & Production (1)
DA 280 Movement Analysis (3)
DA 490 Dance History (3)

Choose 15 Hours
(9 Hours must be upper division):
DA 130 Ballroom Dance (1)
DA 186 Swing Dance (1)
DA 211 Ballet I (1)
DA 221 Modern Dance I (1)
DA 226 Jazz Dance I (1)
DA 236 Tap Dance I (1)
DA 311 Ballet II (2)
DA 321 Modern Dance II (2)
DA 326 Jazz Dance II (2)
DA 336 Tap Dance II (2)
DA 380 Choreography I (3)
DA 411 Ballet III (2)
DA 421 Modern Dance III (2)
DA 426 Jazz Dance III (2)
DA 430 Princ of Teaching Dance (3)
DA 436 Tap Dance III (2)
DA 485 Choreography II (3)
TH 155 Makeup (3)
TH 251 Costume Construction (3)

ECONOMICS

15 Hours Required
Required Courses:
EC 215 Principles of Microeconomics (3)
EC 225 Principles of Macroeconomics (3)

Choose 3 Hours From:
EC 350 Devel of Economic Thought (3)
EC 410 Macroeconomic Theory (3)
EC 420 Microeconomic Theory (3)

Choose 6 Hours From:
EC xxx Any EC course (300-500 level) (3)
UI 322 International Political Economy (3)
UI 349 Comparative Economic Systems (3)
UI 366 Law & Economics (3)
UI 371 Government & Business (3)

ELECTRONICS TECHNOLOGY

18 Hours Required
Required Courses:
ET 160 Basic Electricity & Electronics (3)
ET 194 Fund of Progr Logic Controllers (3)
ET 245 Logic Circuits (3)
ET 366 Microcontrollers (3)
MN 356 Robotic Fundamentals (3)
MN 412 Advanced Manufacturing Systems (3)

ENGINEERING PHYSICS

19 Hours Required
Required Courses:
PH 230/030 General Physics I (5)
PH 231/031 General Physics II (5)

Choose 9 Hours EP or PH electives, including UI 330
(Except those courses indicated in the BULLETIN that do not apply on a minor)

ENTREPRENEURSHIP

15 Hours Required
Required Courses:
BA 361 Entrepreneurship (3)
BA 521 Topics in Entrepreneurship (3)
BA 561 Entrepr Planning & Strategy (3)
MG 301 Principles of Management (3)
MK 301 Principles of Marketing (3)

ENVIRONMENTAL SCIENCE

20-22 Hours Required
(For non-science majors; 6 hours must be at 300-400 level)

Required Courses:
BS 105 Environmental Biology (3)
CH 180 Chemistry in Our World (3)

Choose 6 Hours From:
AO 120 Plant Science (3)
AO 215 Soils (3)
BS 108 Biology for Living (3)
CH 234 Organic & Biological Chemistry (3)
GO 305 Environmental Geoscience (3)
GO/EV 365 Environmental Soil Science (3)
Choose 3 Hours From:
AG 201  World Food & Society (3)
UI 319  Science, Technology & Society (3)
UI 347  Living in a Global Society (3)
UI 360  Recycling & Waste Management (3)
UI 387  Environmental Law & Public Policy (3)

ENVIRONMENTAL SOIL SCIENCE
15 Hours Required
Required Courses:
AO 215  Soils (3)
OR
GO 365  Environ Soil Science (3)
AO 555  Soil Class & Resource Mgmt (3)
OR
GO 555  Soil Class & Resource Mgmt (3)
GO 110  Physical Geology (3)
Choose 6 hours from:
AO 427  Soil Fertil & Plant Nutr (3)
GO 340  Remote Sensing (3)
GO 445  Geographic Information Systems (3)
GO 460  Environmental Hydrology (3)

ENVIRONMENTAL STUDIES
21 Hours Required
(For science majors; 6 hours must be at 300-400 level)
Required Courses:
BS 105  Environmental Biology (3)
GO 110  Physical Geology (3)
UI 387  Environmental Law & Public Policy (3)
UI 429  Environmental Ethics (3)
Choose 3 Hours From:
EN 301  Writing for Science & Technology (3)
GO 305  Environmental Geoscience (3)
GO 460  Environmental Hydrology (3)
IS 175  Information Systems I (3)
MA 223  Elementary Probability & Stats (3)
UI 319  Science, Technology & Society (3)
UI 360  Recycling & Waste Management (3)
Choose 3 Hours From:
EN 190  Writing about the Environment (3)
PL 245  Social Philosophy (3)
PS 280  Intro to Global Issues (3)
UI 339  North American Indians (3)
UI 347  Living in a Global Society (3)
UI 372  Earthquakes & Society (3)

Choose 3 Hours From:
AG 201  World Food & Society (3)
AG 433  Agricultural & Food Policy (3)
BL 255  Legal Environment of Business (3)
EC 101  Economic Problems & Policy (3)
EC 215  Princ of Macroeconomics (3)
PS 230  American Public Policy (3)
PS 418  Public Policy Analysis (3)

EXERCISE SCIENCE
22 Hours Required
Required Courses:
HL 231  Fitness Conditioning (3)
HL 331/031 Exercise Physiology (3)
HL 431  Fitness Assmt & Exercise Prog (4)
HL 460  Exercise Leadership (3)
Choose 6 Hours From:
FN 235  Nutrition for Health (3)
OR
FN 255  Nutrition I (3)
HL 332  Lifestyle Disease Risk Reduct (3)
HL 345  Resistance Trng Prin & Prac (3)
HL 346  Weight Mgmt Prin & Prac (3)
HL 510  Health Concerns of Aging (3)
PE 464  Kinesiology (3)
Additional Requirements: 14-16 Hours
BS 113/013 Anatomy & Phys I (4)
BS 114/014 Anatomy & Phys II (4)
CH 180  Chem in Our World (3)
OR
CH 181  Basic Princ of Chem (5)
OR
CH 185  General Chemistry I (5)
MA 134  College Algebra (3)

FAMILY ECONOMICS AND MANAGEMENT
15 Hours Required
Required Courses:
CF 512  Family & Comm Resources (3)
FE 200  Family Resource Management (3)
FE 514  Family Financial Management (3)
UI 355  Consumer & the Market (3)
Choose a Minimum of 3 Hours From:
FE 313  Management Practicum (2)
HE 317/318/319 Field Experience (1-3)
### FAMILY STUDIES

**18 Hours Required**

**Required Courses:**
- CF 102  Relationships in the 21st Century (3)
- CF 209  Intro to Family Systems (3)
- CF 402  Marriage Interaction (3)
- CF 430  Parent-Child Interaction (3)
- CF 512  Family & Comm Resources (3)

**Choose 3 Hours:**
- FE 200  Mgt of Family Resources (3)
- HL 120  Health Perspectives (3)
- PY 325  Psych Devel of the Family (3)
- UI 317  Human Sexuality (3)

### FASHION MERCHANDISING

**18 Hours Required**

**Required Courses:**
- CT 110  Intro to Fashion Merchandising (3)
- CT 207  Textiles (3)
- CT 230  Apparel Analysis (3)
- CT 350  Apparel Aesthetics (3)

**Choose 6 Hours From:**
- CT 300  Prof Image & Behavior (2)
- CT 415  Fashion Retailing (3)
- CT 420  Specialty Market (3)
- CT 450  Issues/Trends in Fash Merch (3)
- CT 517  History of Costume (3)
- CT 518  Soc Psych Aspects of Clothing (3)
- HI 214  Display Design (3)

### FINANCE

**15 Hours Required**

**Required Courses:**
- FI 361  Financial Management (3)
- FI 364  Modern Financial Institution (3)
- FI 368  Investments (3)

Choose 6 Hours FI courses (300-500 level)

**OR**
- AC 375  Financial Statement Analysis (3)

**AND**
- FI xxx  (300-500 level) (3)

### FRENCH

**18 Hours Required**

**Required Courses:**
- FR 100  French Language & Culture I (3)
- FR 120  French Language & Culture II (3)
- FR 200  French Language & Culture III (3)
- FR 220  French Literature (3)

Choose 6 Hours FR courses (300-500 level)

### GEOGRAPHY

**15 Hours Required**

**Required Courses:**
- GG 150  Peoples & Places of the World (3)
- GG 180  Cultural Geography (3)
- UI 307  Economic Geography (3)
- UI 401  Amer Cultural Landscapes (3)

Choose 3 Hours From:
- GG 170  European Peoples & Civ (3)
- GG 181  Cultural Heritage Travel: An Intro (3)
- GG 320  Political Geography (3)
- GG 497  Geography Internship (3-12)
- GG 561-563  Advanced Topics in Geog (1-3)
- UI 308  Cultural & Phys Landscapes (3)

### GEOSCIENCE

**15 Hours Required**

**Required Courses:**
- GO 110  Physical Geology (3)
- UI 373  Earth/Life Thru Time (3)

Choose 6 hours GO courses (200-500 level)

Choose 3 hours GO courses (400-500 level)

### GERMAN

**18 Hours Required**

**Required Courses:**
- GN 100  German Language & Culture I (3)
- GN 120  German Language & Culture II (3)
- GN 200  German Language & Culture III (3)
- GN 220  German Literature (3)

Choose 6 Hours GN courses (300-400 level)
GERONTOLOGY

18 Hours Required
Required Courses:
CF 206  Intro to Gerontology (3)
CF 207  Gerontology Practicum I (3)
FN 520  Nutrition in the Later Years (3)
HL 510  Health Concerns of Aging (3)
PY 525  Maturity & Aging (3)
OR
PY 329  Psychology of Death & Dying (3)
UI 430  Aging Successfully (3)

GRAPHIC COMMUNICATIONS
TECHNOLOGY

21 Hours Required
Required Courses:
GM 180  Intro to Indus Graphics (3)
GM 200  Vector & Bitmapted Graphics (3)
GM 282  Vector & Text Graphics (3)
GM 284  Photography Fundamentals (3)
Choose 9 Hours From One Option:
OPTION I
GM 380  3D Modeling & Animation Prod (3)
GM 386  Interactive Multimedia & Animation (3)
GM 480  3D Animation Pipeline (3)
OPTION III
GM 320  Graph/Interface Desgn for Internet (3)
GM 326  Multimedia for Internet (3)
TN 255  Microcomputer Maint & Trblshtng (3)

HEALTH PROMOTION

21 Hours Required
Required Courses:
HL 111  Intro to Health Management (3)
HL 120  Health Perspectives (3)
HL 260  Health Promotion Practicum (3)
HL 332  Lifestyle Disease Risk Reduction (3)
UI 354  Lifestyle Enhancement (3)
Choose 6 Hours From:
FN 235  Nutrition for Health (3)
HL 312  Sport and Exercise Pharmacology (3)
HL 331  Exercise Physiology (3)

HISTORIC PRESERVATION

21 Hours Required
Required Courses:
HP 100  Intro to Historic Preservation (3)
HP 200  Intro to Tech of Local History (3)
HP 585  History of Amer Architecture (3)
US 105  American History I (3)
US 107  American History II (3)
Choose 6 Hours From:
(3 Hours must be 300-500 level)
AH 511  History of American Art (3)
HP 405  Archives & Spec Collec Studies (3)
HP 410  Museum Studies (3)
HP 420  Historic Site Admin (3)
HP 450  Problems in Hist Pres (3)
HP 588  Leg/Econ Princ of Historic Pres (3)
UI 313  African American Experience (3)
US 210  Women in American History (3)
US 220  American Folklue (3)
US 525  American Urban History (3)

HISTORY

21 Hours Required
Required Course:
GH 315  Historiography (3)
Choose 9 Senior Level Hours From:
EH 300-599 (3)
US 300-599 (3)
WH 300-599 (3)
Choose 3 Additional Senior Level Hours From:
Any EH, GH, US OR WH 300-599 level or approved departmental UI course
Choose an additional 6 Hours of EH, GH, US, WH prefix courses – any level

HORTICULTURE

15 Hours Required
Required Courses:
HO 130  Plant ID & Use I (3)
HO 230  Advanced Horticulture (3)
HO xxx  Horticulture electives, with at least 6 hours at the 300-500 level (9)

HOSPITALITY MANAGEMENT

18 Hours Required
Required Courses:
FN 150  Intro to Hospitality Mgmt (3)
FN 205  Selection & Preparation of Food (3)
FN 270  Hotel & Restaurant Operation (3)
FN 304  Food, Bev & Labor Cost Cntrls (3)
FN 390  Hosp Sales & Marketing (3)
FN 406  Hospitality and Institution Admin (3)
HUMAN RESOURCE MANAGEMENT
15 Hours Required
Required Courses:
MG 301 Principles of Management (3)
MG 356 Human Resource Management I (3)
MG 446 Human Resource Management II (3)
Choose 6 Hours From:
BA 361 Entrepreneurship (3)
MG 354 Topics in Management Comm (3)
MG 362 Management Skills (3)
MG 456 Topics in Human Resource Mgt (3)
MG 457 Topics in Organizational Behvr (3)
MG 462 Organization Theory & Design (3)
MG 470 Leadership in Management (3)
MG 548 Project Management (3)
MG 550 Improving Team Performance (3)
MG 560 International Management (3)

INDUSTRIAL MANAGEMENT
15 Hours Required
Required Courses:
IM 301 Industrial Safety Supervision (3)
IM 311 Statistical Process Control (3)
IM 419 Industrial Supervision (3)
Choose 6 Hours From:
IM 313 Facilities Planning (3)
IM 315 Work Measurement (3)
IM 411 Total Quality Assurance (3)
IM 417 Manuf Resource Analysis (3)

INFORMATION SYSTEMS
15 Hours Required
Required Courses:
IS 130 Visual Basic Programming I (3)
IS 175 Information Systems I (3)
IS 275 Information Systems II (3)
Choose 6 hours of IS or CS prefix courses at the 300-500 level

INTERIOR DESIGN
21 Hours Required
Required Courses:
CM100 Introduction to Architectural Drafting (3)
DS001 Portfolio Review (0)
DS104 Introduction to Interior Design (3)
DS206 History of Interiors II (3)
DS211 Basic Kitchen & Bath Design (3)
DS220 Design Communications (3)

Choose 6 hours from:
DS330 Lighting & Electrical Systems (3)
DS331 Interior Systems (3)
DS412 Design Studio 412 (3, 3)
DS413 Design Studio 413 (3, 3)
DS450 Prof. Practice/Interior Design I (3)
DS451 Prof. Practice/Interior Design II (3)

INTERNATIONAL BUSINESS
18 Hours Required
EC 580 International Economics (3)
FI 540 International Finance (3)
MG 560 International Management (3)
MK 560 International Marketing (3)
UI 343 Transcultural Experience (3)
Choose 3 Hours From:
AC 540 International Persp on Acct (3)
MK 478 Global Logistics (3)
UI 322 International Political Economy (3)
UI 349 Comparative Economics Systems (3)

INTERNATIONAL STUDIES
21 Hours Required
Intermediate foreign language competency required
Significant exposure to another culture (3)
Choose 9 Hours From the Following:
AN 101 Observing Other Cultures (3)
GG 150 People & Places of the World (3)
PS 104 Comparative Political Systems (3)
RS 101 World Religions (3)
SC 215 Intercultural Communication (3)
Choose 3 Hours From:
GG 320 Political Geography (3)
PS 280 Intro to Global Issues (3)
PS 355 Less Developed Nations (3)
PS 380 International Organizations (3)
PS 570 Comparative Government (3)
PS 580 International Politics (3)
PS 595 International Law (3)
UI 307 Economic Geography (3)
UI 326 Australian Culture (3)
UI 347 Living in a Global Society (3)
UI 402 Music in World Culture (3)
UI 447 Globalism & Justice (3)
Choose 6 Hours of Electives From an Approved List
(See Liberal Arts Advising Center for Approved List of Electives)
LITERATURE
15 Hours Required
Required Courses:
LI 2xx Any Lit Expr course/LI prefix (3)
LI 260 English Literature I (3)
OR
LI 261 English Literature II (3)
LI 270 American Literature I (3)
OR
LI 271 American Literature II (3)
Choose 6 Hours EN 435, LI courses (300-500 level), UI 332, UI 341, UI 431, UI 432, or UI 435 which represent more than one genre (i.e., not 2 novels courses)

MANAGEMENT
15 Hours Required
Required Courses:
MG 301 Principles of Management (3)
MG 362 Management Skills (3)
Choose 9 Hours From:
BA 361 Entrepreneurship (3)
MG 354 Topics in Management Communication (3)
MG 356 Human Resource Management I (3)
MG 446 Human Resource Management II (3)
MG 457 Topics in Organizational Behavior (3)
MG 462 Organization Theory & Design (3)
MG 470 Leadership in Management (3)
MG 548 Project Management (3)
MG 550 Improving Team Performance (3)
MG 560 International Management (3)
MI 410 Business Database Systems (3)

MANAGEMENT INFORMATION SYSTEMS
15 Hours Required
Required Courses:
MI 575 Management Information Systems (3)
MI 410 Bus Database Systems (3)
MI 420 Telecommunications Mgmt (3)
MI 445 Systems Analysis & Design (3)
Choose 3 Hours From:
AC 330 Acctg Info Systems (3)
AD 339 Network Support Systems (3)
MI 430 Knowl-Bsd Dec Sprt Syst for Mgmt (3)
MI 575 Information Technology Mgmt (3)

MARKETING: INTEGRATED MARKETING COMMUNICATIONS
15 Hours Required
Required Courses:
MK 301 Principles of Marketing (3)
MK 341 Public Relations (3)
MK 342 Professional Selling (3)
MK 343 Advertising & Promotion (3)
MK 443 Integrated Mktg Comm Practicum (3)

MARKETING: MARKETING MANAGEMENT
15 Hours Required
Required Courses:
MK 301 Principles of Marketing (3)
MK 343 Advertising & Promotion (3)
MK 346 Distribution Management (3)
MK 348 Product & Pricing Strategy (3)
Choose any MK course except MK 345, MK 449 and MK 473 (3)

MARKETING: RETAIL MANAGEMENT
15 Hours Required
Required Courses:
MK 301 Principles of Marketing (3)
MK 343 Advertising & Promotion (3)
MK 349 Retail Management (3)
Choose 6 hours of MK courses except MK 345, MK 449 and MK 473

MARKETING: SALES MANAGEMENT
15 Hours Required
Required Courses:
MK 301 Principles of Marketing (3)
MK 342 Professional Selling (3)
MK 344 Consumer Behavior (3)
MK 447 Sales Management (3)
Choose any MK course except MK 345, MK 449 and MK 473 (3)

MASS COMMUNICATION
18 Hours Required
(A grade of 'C' or better is required for each course within the minor.
Required Courses:
MC 101 Mass Communication & Society (3)
MC 401 Communication Law (3)
Choose 12 Hours of MC Courses.
(All prerequisites must be met for these electives.)
### Mathematics

**15 Hours Required**

**Required Course:**
- MA 140 Analytic Geometry & Calc I (5)

10 hours in mathematics (consisting of MA 138, MA 145, or courses numbered MA 223 & above with the exception of MA 230, MA 318 & MA 418) including 6 hours at the 300-500 level.

### Microbiology

**21 Hours Required**

**Required Courses:**
- BI 151 Biological Reasoning (3)
- BI 152 Intro to Scientific Investigation (1)
- BI 153 Intro to Organismal Biology (4)
- BI 154 Genetics & Cell Biology (4)
- BI 200 General Microbiology (3)

Choose 6 Hours From:
- BI 384 Readings in Biology (1)
- BI 411 Virology (3)
- BI 442 Immunology (3)
- BI 443 Epidemiology (3)
- BI 445 Microbial Physiology (3)
- BI 485 Topics in Biology (3)
- BI 493 Readings Biology (2)
- BI 543/544 Pathogenic Microbiology (3)
- BI 589-591 Biological Research (1-3)

### Music

**19 Hours Required**

**Required Courses:**
- MM 101 Theories of Music in Culture (3)
- MM 105 Aural Skills (1)
- MU 110 Recitals/Concerts (2 semesters) (0)
- MU 181 Musical Encounters (3)

**OR**
- MU 182 Music: An Artistic Expression (3)
- MU 3xx Music Ensembles (2)
- UI 310 American Musical Experience (3)

Choose 7 Hours From:
- ME xxx Instrumental Techniques (1-2)
- MH 251 Hist & Lit of Music to 1827 (3)

**OR**
- MH 252 Evol/Musical Style Since 1827 (3)
- MM 102 Basic Harmony & Form (3)
- MM 106 Aural Skills II (1)
- MP xxx Applied Music (2-5)
- MU 151 Functional Piano I (or equiv) (1)

**OR**
- MU 152 Functional Piano II (or equiv) (1)
- MU 190 Jazz Appreciation (3)
- MU xxx Music Ensembles (2)
- MU 430 Literature: Applied Area (2)
- MU 432 Pedagogy: Applied Area (2)
- UI 315 Electronics & Comptrs in Music (3)
- UI 402 Music in World Cultures (3)

### Nutrition

**18 Hours Required**

**Required Courses:**
- FN 205 Selection & Prep of Foods (3)
- FN 235 Nutrition for Health (3)
- FN 355 Lifespan Nutrition (3)
- FN 540 Community Nutrition (3)

Choose 6 Hours From:
- FN 255 Nutrition I (3)
- FN 370 Nutrition Assessment (3)
- FN 401 Sports Nutrition (3)
- FN 502 Nutrition II (3)
- HE 520 Tech Tchg Ntr & Health Ed (3)

### Outdoor Adventure Leadership

**20 Hours Required**

RC 119 Outdoor Adventure Special Topics (1-3)
RC 220 Leadership & Group Dynamics (3)
RC 250 Found of Outdoor Recreation (3)
RC 316 Special Topics in Health & Leisure (1-3)
RC 440 Facilitation of Grp Developmnt (3)
RC 450 Outdoor Adventure as Treatment (3)

### Philosophy

**18 Hours Required**

**Required Courses:**
- PL 120 Symbolic Logic I (3)
- PL 300 Ancient Philosophy (3)
- PL 390 Contemporary Philosophy (3)

Choose 3 Hours From:
- PL 110 Readings in Philosophy (3)
- PL 203 Aesthetics & the Arts (3)
- PL 204 Ethical Theory (3)
- PL 245 Social Philosophy (3)
- RS 101 World Religions (3)

Choose 6 Hours PL courses (300-400 level) or any departmentally approved courses with a UI prefix
PHYSICS

15 Hours Required
Required Courses:
PH 120/020 Introductory Physics I (5)
OR
PH 230/030 General Physics I (5)
PH 121/021 Introductory Physics II (5)
OR
PH 231/031 General Physics II (5)
Choose 5 Hours EP or PH electives (300-500 level, including UI 330)

POLITICAL SCIENCE

15 Hours Required
Required Courses:
PS 103 U.S. Political Systems (3)
OR
PS 104 Comparative Political Systems (3)
PS 240 Intro to Political Science (3)
PS 470 Politics of the Developed World (3)
Choose 6 Hours PS courses
(At least 2 hours must be 300-500 level)

PSYCHOLOGY: APPLIED

18 Hours Required
Required Courses:
PY 102 Introduction to Psychology (3)
PY 250 Applied Psychology (3)
PY 358 Social Psychology (3)
Choose 9 Hours From:
PY 251 Indus/Organiz Psychology (3)
PY 359 Psychology & the Law (3)
PY 450 Organizations as Open Systems (3)
PY 531 Psychological Testing (3)
UI 354 Lifestyle Enhancement (3)

PSYCHOLOGY: DEVELOPMENTAL

18 Hours Required
Required Courses:
PY 102 Introduction to Psychology (3)
PY 120 The Child: Devel/Concept/Adlsc (3)
OR
PY 222 Development of the Adolescent (3)
PY 220 Psych Devel Across Life Span (3)
PY 525 Maturity & Aging (3)
Choose 3 Hours From:
PY 325 Psych Devel of the Family (3)
PY 444 Childhood Psychopathology (3)

Choose 3 Hours From:
PY 329 Psychology of Death & Dying (3)
PY 521 Advanced Child Development (3)

PSYCHOLOGY: GENERAL

18 Hours Required
Required Courses:
PY 102 Intro to Psychology (3)
Choose 3 Hours From:
PY 362 Learning & Memory (3)
PY 366 Intro to Sensation & Perception (3)
PY 466 Intro to Physiological Psychology (3)
Choose 3 Hours From:
PY 120 The Child (3)
PY 220 Psychological Development Across the Lifespan (3)
PY 222 Development of the Adolescent (3)
PY 525 Maturity & Aging (3)
Choose 3 Hours From:
PY 432 Intro to Personality (3)
PY 440 Abnormal Psychology (3)
PY 441 Intro to Clinical Psychology (3)
Choose 3 Hours From:
PY 250 Applied Psychology (3)
PY 251 Industrial/Organizational Psychology (3)
PY 358 Social Psychology (3)

PSYCHOLOGY: PSYCHOLOGICAL SERVICES

18 Hours Required
Required Courses:
PY 102 Introduction to Psychology (3)
PY 432 Intro to Personality (3)
PY 440 Abnormal Psychology (3)
Choose 9 Hours From:
PY 358 Social Psychology (3)
PY 359 Psychology & the Law (3)
PY 441 Intro to Clinical Psychology (3)
PY 442 Psychotherapy (3)
PY 543 Clinical Psychopharmacology (3)
PY 444 Childhood Psychopathology (3)
PY 531 Psychological Testing (3)
PUBLIC ADMINISTRATION
18 Hours Required
Required Courses:
- PS 230 American Public Policy (3)
- PS 384 Political Science Internship (3)
- PS 402 Fund of Public Administration (3)
- PS 403 Public Personnel Administration (3)
- PS 415 Government Budgeting Process (3)
Choose 3 Hours From:
- EC 525 Public Policy Economics (3)
- EC 561 Managerial Economics (3)
- MG 301 Principles of Management (3)
- PS 418 Public Policy Analysis (3)
- PS 425 Admin Law & Procedure (3)
- PY 450 Organizations as Open Systems (3)

RECREATION
15 Hours Required
Required Courses:
- RC 140 Intro to Recreation Services (3)
- RC 288 Practicum in Rec Services (3)
- RC 380 Programming for Rec Svcs (3)
Choose 3 Hours From:
- RC 210 Camp Leadership (3)
- RC 220 Leadership & Group Dynamics (3)
- RC 250 Found of Outdoor Recreation (3)
- RC 260 Intro to Therapeutic Recreation (3)
- RC 270 Commercial Recreation (3)
Choose 3 Hours From:
- RC 360 Thrptic & Adapted Rec Srvcs (3)
- RC 385 Rec Facilities Planning & Mgmt (3)
- RC 405 Trends & Issues in Rec & Leisure (3)
- RC 420 Organ & Admin of Rec Services (3)

RELIGION
18 Hours Required
Required Courses:
- PL 499 Independent Study in Philosophy (3)
- RS 101 World Religions (3)
- UI 336 Religion in America (3)
Choose 3 Hours From:
- LI 222 Mythic Dimensions of Literature (3)
- RS 201 New Testament Literature (3)
- RS 202 Old Testament Literature (3)
Choose 6 Hours From:
- AN 375 Primitive Religions (3)
- PL 340 Philosophy of Religion (3)
- RS 350 Religious Topics & Issues (3)
- UI 415 Science & Religion (3)

SMALL PRESS PUBLISHING
18 Hours Required
Required Courses:
- EN 275 Intro to Creative Writing (3)
- EN 311 Literary Manuscript Editing Pract (3)
- EN 435 Internship in English (3)
- GM 180 Intro to Indus Graphics (3)
- LI 301 Small-Press Publishing (3)
Choose 3 Hours From:
- AR 319 Intro to Graphic Design (3)
- AR 322 Typography (3)
- EN 470 Adv Creative Writ: Poetry (3)
- EN 478 Adv Creative Writ: Fiction (3)
- GM 282 Vector and Text Graphics (3)
- MC 310 Advertising Comm Strategies (3)
- MK 301 Principles of Marketing (3)

SOCIAL REHABILITATION AND TREATMENT
21 Hours Required
Required Courses:
- CJ 440 Thries/Methods of Offndr Rehab (3)
- SR 444 Trtmt Strat: Alch/Drug Abuse (3)
- SR 448 Juv Just Trtmt/Intervention Strat (3)
- SW 110 Intro to Social Work (3)
OR
- RC 260 Intro to Therapeutic Recreation (3)
Choose 3 Hours From:
- PY 440 Abnormal Psychology (3)
- PY 441 Intro to Clinical Psychology (3)
- PY 444 Childhood Psychopathology (3)
Choose 6 Hours From:
- PY 325 Psych Devel of the Family (3)
- PY 440 Abnormal Psychology (3)
(If not chosen above)
- RC 260 Intro to Therapeutic Recreation (3)
- RC 450 Outdoor Adventure as Treatment (3)
- SR 450 Wilderness Adventure Therapy (3)
- SW 315 Social Work Intervention (3)

SOCIAL WORK
15 Hours Required
Required Courses:
- SW 110 Intro to Social Work (3)
- SW 207 Undrstdng Cultrl/Soc Diversity (3)
Choose 3 Hours From:
- SW 351 Child Welfare (3)
- SW 352 Social Work with the Aged (3)
- SW 355 Child Development (3)
SW 354  Crisis Intervention (3)
SW 355  Special Topics in Social Work (3)
SW 356  Social Work in Mental Health (3)
SW 389  Ind Study in Social Work (3)

Choose One Area of Emphasis (6 Hours):

SOCIAL WELFARE
SW 201  Social & Economic Justice (3)
SW 310  Social Welfare Policy & Issues (3)

SOCIAL WORK PRACTICE
SW 121  Helping Skills for the Human Svcs (3)
SW 315  Social Work Intervention (3)

SOCIOLOGY
15 Hours Required
Required Course:
SO 200  Intro to Social Organization (3)
Choose 12 Hours SO courses
(At least 6 Hours must be 300-500 level)

SOILS
16 Hours Required
Required Courses:
AG 551  Water Management (3)
AO 120  Plant Science (3)
AO 125  Plant Science Lab (1)
AO 215  Soils (3)
AO 427  Soil Fertility & Plant Nutrition (3)
AO 555  Soil Classification/Resource Mgt (3)

SPANISH
18 Hours Required
Required Courses:
SN 100  Spanish Language & Culture I (3)
SN 120  Spanish Language & Culture II (3)
SN 200  Spanish Language & Culture III (3)
SN 220  Hispanic Literature (3)
Choose 6 Hours SN courses (300-500 level)

SPORT MANAGEMENT
15 Hours Required
Required Courses:
PE 201  Sport & Society (3)
SM 220  Intro to Sport Management (3)
SM 360  Sporting Event Management (3)
SM 540  Legal Aspects of Sport & Phys Activity (3)
Select one course from the following:
SM 340  Sport Ethics (3)
SM 455  Sport-Related Venue Dsgn/Operation (3)
SM 460  Fund of Sport Delivery Systems (3)
SM 570  Mgmt & Leadership in Sport Org (3)

TECHNICAL THEATRE
23 Hours Required
Required Courses:
TH/DA 105 Rehearsal & Production (1)
TH 155  Makeup (3)
TH 218  Acting I (3)
TH 231  Stagecraft I (3)
TH 251  Costume Construction (3)
TH 265  Drawing for the Theatre (3)
TH/DA 305 Rehearsal & Production (1)
Choose 6 Hours From:
TH 331  Stagecraft II (3)
TH 350  Stage Lighting I (3)
TH 351  Costume Design I (3)
TH 361  Scene Painting (3)
TH 371  Scenic Design I (3)
TH 375  Theatre Management (3)
TH 386  Sound Design (3)
TH 395  Period & Style (3)
TH 450  Stage Lighting II (3)
TH 451  Costume Design II (3)
TH 471  Scenic Design II (3)

TESOL
21 Hours Required
EN 378  Grammars of English (3)
EN 486  Sociolinguistics (3)
TL 525  Theories of Lang/Learn/Teach (3)
TL 425  Develop Mats & Assess Tools for ESOL Classroom (3)
TL 530  Practicum in TESOL (3)
TL 585  Methods/Techniques of TESOL (3)
UI 501  Principles of Language (3)

THEATRE: ACTING/DIRECTING
23 Hours Required
Required Courses:
TH/DA 105 Rehearsal & Production (1)
TH 155  Makeup (3)
TH 218  Acting I (3)
TH 231  Stagecraft I (3)
TH 251  Costume Construction (3)
TH/DA 305 Rehearsal & Production (1)
TH 316  Acting II (3)
Choose 6 Hours From:
TH 319  Acting for Film & TV (3)
TH 321  Stage Combat I (3)
TH 385  Directing I (3)
TH 416  Acting III (3)
TH 485  Directing II (3)
THEATRE: GENERAL

23 Hours Required

Required Courses:
TH/DA 105 Rehearsal & Production (1)
TH 155  Makeup (3)
TH 218  Acting I (3)
TH 231  Stagecraft I (3)
TH 251  Costume Construction (3)
TH/DA 305 Rehearsal & Production (1)

Choose 3 hours From:
TH 265  Drawing for the Theatre (3)
TH 316  Acting II (3)

Choose 6 Hours From:
TH 375  Theatre Management (3)
TH 385  Directing I (3)
TH 395  Period & Style (3)
TH 390  Theatre History I (3)
TH 495  Theatre History II (3)

WOMEN’S STUDIES

15 Hours Required

Required Courses:
WS 100  Introduction to Women’s Studies (3)
WS 300  Seminar: Issues in Women’s Studies (3)

Choose 9 Hours From:
LI 587  Women and Madness (3)
UI 303  The Female Experience (3)
UI 332  Images of Women in Literature (3)
UI 406  Transforming the Female Experience (3)
UI 4xx  Feminist Spirituality (3)
US 210  Women in American History (3)

WRITING

15 Hours Required

Required Courses:
EN 140  Rhetoric & Critical Thinking (3)
EN 376  Advanced Composition (3)
EN 550  Style in Writing (3)

Choose 6 Hours From One Option:
EXPOSITORY WRITING
EN 301  Writing Science/Technology (3)
EN 435  Internship (3)
CREATIVE WRITING
EN 275  Intro to Creative Writing (3)
EN 470  Adv Creative Writing: Poetry (3)
EN 478  Adv Creative Writing: Fiction (3)

ZOHOLOGY

21 Hours Required

Required Courses:
BI 151  Biological Reasoning (3)
BI 152  Intro to Scientific Investigation (1)
BI 153  Intro to Organismal Biology (4)
BI 154  Genetics & Cell Biology (4)
ZO 200  Animal Biology (3)

Choose 6 Hours From:
BI 332  General Ecology (3)
BI 384  Readings in Biology (1)
BI 485  Topics in Biology (3)
BI 493  Readings in Biology (2)
BI 589-591 Biological Research (1-3)
ZO 315  Comparative Anatomy (3)
ZO 414  Developmental Biology (3)
ZO 420  Animal Behavior (3)
ZO 441  Parasitology (3)
ZO 459  Mammalogy (3)
ZO 460  Herpetology (3)
ZO 465  Entomology (3)
ZO 466  Ornithology (3)
ZO 469  Vertebrate Adaptations (3)
ZO 478  Ichthyology (3)

CERTIFICATE PROGRAMS

Short-term curricula are provided for students not planning to complete a four-year degree. Earned credit is applicable toward later completion of a degree. Students completing a short-term program are awarded appropriate certificates at that semester’s graduation ceremony.

TWO-YEAR ADMINISTRATIVE ASSISTANT CERTIFICATE PROGRAM

60 Hours Required

Required Courses – 18 Hours:
AD 101  Intro to Micro Applications (3)
AD 210  Business Computing Fundamentals (3)
AD 222  Microcomp Appl for Business (3)
AD 331  Advanced Word Processing (3)
AD 341  Information Systems Procedures (3)
MG 252  Business Communication (3)

Choose 15 Hours From:
AC 221  Prin of Accounting I (3)
AD 337  Admin Systems Mgt Internship (3)
AD 339  Network Support Systems (3)
AD 353  Admin Systems Management (3)
BL 255  Legal Environment of Business (3)
Certificate Programs

Southeast Missouri State University 2009-10

CJ 100  Intro to Criminal Justice (3)
GM 282  Elect Publ & Print Proc (3)
TN 275  Network Rtg & Switching I (3)
TN 375  Network Rtg & Switching II (3)

**Additional Requirements – 15 hours**
EN 100  English Composition (3)
EN 140  Rhetoric & Critical Thinking (3)
PY 101  Psych Perspect/Human Behavior (3)
SC 105  Fund of Oral Communication (3)
UI 100  First Year Seminar (3)

**Choose one course from each of the following categories:**
- University Studies Economic Systems (3)
- University Studies Living OR Logical Systems (3)
- University Studies Political Systems (3)
- University Studies Social Systems (3)

**DESIGN DRAFTING CERTIFICATE PROGRAM**

**66 Hours Required**

**Required Courses:**
CH 180  Chemistry in Our World (3)
CM 126  Computer Aided Arch Drafting (3)
CM 226  Residential Arch Drft & Design (3)
CM 322  Commercial Arch Drft & Design (3)
CM 510  Building Info Modeling (3)
EN 100  English Composition I (3)
ET 160  Basic Electricity & Electronics (3)
FM 554  Facilities Operation & Supervision (3)
IM 102  Technical Communication (3)
IM 301  Industrial Safety Supervision (3)
MA 133  Plane Trigonometry (3)
MA 134  College Algebra (3)
MN 260  Tech Computer Programming (3)
PH 120  Introductory Physics I (5)
SC 105  Fund of Oral Communication (3)
TN 254  Fiber Optics & Network Comm (3)
TN 255  Microcomputer Maint & Troubleshooting (3)
TN 275  Network Fundamentals (3)
TN 375  Network Routing Protocols & Concepts (3)

**Choose 12 Hours of electives**

**ELECTRONICS PROGRAM**

**65 Hours Required**

**Required Courses:**
EN 100  English Composition I (3)
ET 160  Basic Electricity & Electronics (3)
ET 194  Intro to PLCs (3)
ET 245  Logic Circuits (3)
IM 102  Technical Communication (3)
IM 301  Industrial Safety Supervision (3)
IM 311  Statistical Process Control (3)
IM 315  Work Measurement (3)
MA 133  Plane Trigonometry (3)
MA 134  College Algebra (3)
MN 260  Tech Computer Programming (3)
PH 120  Introductory Physics I (5)
SC 105  Fund of Oral Communication (3)
TN 254  Fiber Optics & Network Comm (3)
TN 255  Microcomputer Maint & Troubleshooting (3)
TN 275  Network Fundamentals (3)
TN 375  Network Routing Protocols & Concepts (3)

**Choose 6 Hours of electives**

**GRAPHIC TECHNOLOGY PROGRAM**

**63 Hours Required**

**Required Courses:**
AR 104  Design Foundations (3)
AR 201  Color Composition (3)
AR 317  Communication Graphics (3)
AR 319  Intro to Graphic Design (3)
EN 100  English Composition I (3)
GM 180  Intro to Indus Graphics (3)
GM 200  Vect & Bmp Graph for Indus (3)
GM 282  Vector and Text Graphics (3)
GM 284  Photography Fundamentals (3)
GM 285  Commercial Photo Lighting (3)
GM 286  Commercial Studio Photography (3)
GM 386  Interactive Multimedia & Animation (3)
IM 102  Technical Communication (3)
IM 301  Industrial Safety Supervision (3)
IM 318  Internship (6)
MC 201  News Writing (3)
MC 322  Editing (3)
MN 120  Fund of Engr Design Processes (3)

**Choose 6 Hours of electives**