Degrees/Majors/
Pre-Professional Curricula
BACCALAUREATE DEGREES

The following statements pertain to all baccalaureate degrees:

- A minimum of 120 hours of undergraduate degree credit (courses numbered 100-599) is required.
- The University Studies Program, consisting of 51 hours, is required.
- A minimum of 30 hours must be completed in residence at Southeast.
- A minimum of 39 hours of senior college courses (300-599) must be completed after completion of 45 hours.
- 30 of the last 60 credits earned for a bachelor’s degree that the institution awards must be earned at Southeast.
- The student’s last term must be completed at Southeast, except that, in the case where six or fewer hours are needed to meet the total number of hours required for graduation, they may be taken at another accredited college or university, or by extension or correspondence subject to the rules governing extension courses and transfer of credit.
- Required completion of career proficiency checks CL 001, CL 002, CL 003, and CL 004.
- Required completion of MAPP2.
- Required completion of WP 003.
- No more than one-half of the junior college and one-half of the senior college work on a major or minor may be taken by correspondence and/or extension.
- A minimum cumulative GPA of 2.0 is required for graduation, except for the B.S. in Education, the B.S. in Family and Consumer Sciences Education, and the Bachelor of Music Education which require a 2.75 GPA, the major in Communication Disorders, the major in Interdisciplinary Studies, the major in Mass Communication, and the Bachelor of Fine Arts in Theatre and in Dance which require a 2.5 GPA for graduation, the Bachelor of Science in Business Administration which requires a 2.25 GPA for graduation, the major in Health Sciences which requires a 3.0, and the major in Social Work which requires a 2.25 GPA for graduation.
- A minimum 2.0 GPA for all of the degree credit attempted at Southeast is required.
- For all degrees which require a major, a minimum 2.0 GPA must be earned in those courses counted on the major, except for Business Administration majors which require a 2.25 GPA, majors on the Secondary Education degree, the Athletic Training major, the Mass Communication major, the Health Management major, the Sport Management major, the Dance major and the Theatre major which require a 2.5 GPA, the Communication Disorders major which requires a 2.75 GPA, and the 2-Dimensional and 3-Dimensional Art majors, BFA-Dance and Theatre majors, all Music majors, and the Human Environmental Studies; Dietetics Option which require a 3.0 GPA. For all students in an education program, a GPA of 3.0 or higher is required in both the professional education coursework and in the specific content area for which certification is sought.
- A minimum 2.0 GPA must be earned in those courses completed at Southeast that are counted on the major.
- When applicable, a course may be counted toward more than one requirement, e.g., University Studies, major and minor.
- The student must pass any required developmental courses or score at the appropriate levels on placement tests to have the courses waived.

NOTE: There may be additional specific graduation requirements for individual programs. Further information is available in the College Advising Offices.

DEGREES/MAJORS

The Colleges of the University and the School of University Studies offer majors in many fields to meet the diverse needs of its student population. Information regarding degrees and majors is available from the individual departments and from the following Advising Centers:

Donald L. Harrison College of Business (Bus)
Seabaugh Polytechnic Building, room 301
Telephone (573) 651-5090

College of Education (Ed)
Academic Hall, room 057
Telephone (573) 651-2007

College of Health & Human Services (H&HS)
Academic Hall, room 057
Telephone (573) 651-2007
## College of Liberal Arts (Lib Arts)
Academic Hall, room 057
Telephone (573) 651-2007

## College of Science, Technology & Agriculture (ST&A)
Seabaugh Polytechnic Building, room 301
Telephone (573) 986-6746
Telephone (573) 651-5930

## School of University Studies
Academic Hall, room 057
Telephone (573) 986-7328

The requirements for the majors are listed alphabetically under the appropriate degree:

<table>
<thead>
<tr>
<th>Degree</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Arts (BA)</td>
<td>83</td>
</tr>
<tr>
<td>Bachelor of Fine Arts (BFA)</td>
<td>90</td>
</tr>
<tr>
<td>Bachelor of General Studies (BGS)</td>
<td>92</td>
</tr>
<tr>
<td>Bachelor of Science (BS)</td>
<td>92</td>
</tr>
<tr>
<td>Bachelor of Science in Athletic Training (BSAT)</td>
<td>114</td>
</tr>
<tr>
<td>Bachelor of Science in Bus Admin (BSBA)</td>
<td>115</td>
</tr>
<tr>
<td>Bachelor of Science in Education (BSED)</td>
<td>118</td>
</tr>
<tr>
<td>Bachelor of Family &amp; Consumer Sciences Education (BFCSE)</td>
<td>126</td>
</tr>
<tr>
<td>Bachelor of Music Education (BME)</td>
<td>127</td>
</tr>
<tr>
<td>Bachelor of Music (BM)</td>
<td>127</td>
</tr>
<tr>
<td>Bachelor of Science in Nursing (BSN)</td>
<td>128</td>
</tr>
</tbody>
</table>

Note: A maximum of 30 semester hours of business courses (AC, AD, BA, BL, FI, MG, MK, QM prefixes) may be taken by nonbusiness majors.

### MAJOR/DEGREE  DEPARTMENT/COLLEGE

| Accounting/BSBA | Accounting/Business |
| Agribusiness/BS | Agriculture/ST&A |
| Agriculture Industry | Animal Science |
| Horticulture | Plant & Soil Science |
| Agricultural Education/BSED | Agriculture/ST&A |
| Animal Science | Art/BFA, BSED |
| Art/BFA, BFA, BSED | Art/Lib Arts |
| Athletic Training/BSAT | Biology, Hum Perf & Rec/H&HS |
| Business Administration/BSED | Business Administration/ST&A |
| Chemistry/BA, BS, BSED | Chemistry/ST&A |
| Child Care & Guidance/AA | Human Envir. Studies/H&HS |
| Child Development | Human Envir. Studies/H&HS |
| Commercial Photography/BS | Polytechnic Studies/ST&A |
| Communication Disorders/BS | Comm Disorders/H&HS |
| Communication Studies/BA | Communication/Lib Arts |
| Computer/Multimedia Graphics | (See Polytechnic Studies) |
| Computer Information Systems/BS | Computer Sci/ST&A |
| Computer Science/BS | Computer Sci/ST&A |
| Computer Technology/AAS | Polytechnic Studies/ST&A |
| Construction Mgmt & Design | (See Polytechnic Studies) |
| Corporate Communication/BS | Communication/Lib Arts |
| Criminal Justice/BS | Criminal Justice & Sociology/H&HS |
| Corrections | Criminology |
| Criminology | Law Enforcement |
| Cybersecurity/BS | Polytechnic Studies/ST&A |
| Dance/BA, BFA | Theatre & Dance/Lib Arts |
| Dietetics | (See Human Envir. Studies) |
| Early Childhood Educ/BSED | Early Elem & Special Educ/Ed |
| Economics/BS | Economics & Finance/Bus |
| Economics/BSBA | Economics & Finance/Bus |
| Business Economics | Financial Economics |
| Elementary Education/BSED | Early Elem & Special Educ/Ed |
| Emergency Preparedness/BS | College of Science, Tech & Agric |
| Engineering Physics/BS | Engineering Physics & Engr Physics/ST&A |
| Computer Applications | Electrical Applications |
| Mechanical Applications | Mechanical Applications |
| Engineering Technology/BS | Polytechnic Studies/ST&A |
| Electrical & Control | Mechanical/Manufacturing Systems |
| Engineering Technology Education/BSED | Polytechnic Studies/ST&A |
| English/BA, BS | English/Lib Arts |
| Literature | Writing |
| Entrepreneurship | (See Management) |
| Environmental Science/BS | Environmental Sci/ST&A |
| Exceptional Child Educ/BSED | Early Elem & Special Educ/Ed |
| Family & Consumer Sciences | Human Envir. Studies/H&HS |
| Edu/FCS | Family Studies |
| Family Studies | (See Human Envir. Studies) |
| Fashion Merchandising | (See Human Envir. Studies) |
| Finance/BSBA | Economics & Finance/Bus |
| Fine Arts/BFA | College of Liberal Arts |
| French/ BSED | Global Cult & Lang/Lib Arts |
| Global Studies | University Studies |
| German/BSED | Global Cult & Lang/Lib Arts |
| Global Cultures & Languages/BA | Global Cult & Lang/Lib Arts |
| Anthropology | Foreign Language |
| Global Studies | Global Studies |
| Health Communication/BS | Communication Studies/Lib Arts |
| Health Management/BS | Health, Hum Perf & Rec/H&HS |
| Exercise Science | Health Promotion |
| Health Sciences/BS | Health, Hum Perf & Rec/H&HS |
| General Health Sciences | Pre-Physical/Occupational Therapy |
| Healthcare Administration/BSBA | Marketing/Business |
| Healthcare Management, BS | Marketing/Business |
| Informatics | Quality & Patient Safety |
| Criminal Justice/BS | History/Lib Arts |
| History/BA | History/Lib Arts |
| Hospitality Mgt/BS | Human Envir. Studies/H&HS |
| Human Environmental/BS | Human Envir. Studies/H&HS |
| Studies/BS | Child Development |
| Dietetics | Family Studies |
| Fashion Merchandising | Interior Design |
Horticulture ...........................................(see Agribusiness)
Human Resource Management .........................(See Management)
Industrial Management ...................................(See Polytechnic Studies)
Interdisciplinary Studies/BS..................................University Studies
International Business/BSBA..............................Mgmt & Mktg/Bus
Interior Design..............................................(see Human Environ. Studies)
Management/BSBA........................................Mgmt & Mktg/Bus
Entreprenuership
Human Resource Management
Management
Marketing/ BSBA.............................................Mgmt & Mktg/Bus
Integrated Marketing Communication
Marketing Management
Sales Management
Mass Communication.................................Communication/Lib Arts
Advertising/BS
Multimedia Journalism/BS
Public Relations/BS
Television & Film/BS
Mathematics/BS........................................Mathematics/ST&A
Actuarial Science
Applied Mathematics & Statistics
Pure Mathematics
Mathematics/BSED ..................................Mathematics/ST&A
Medical Laboratory Science/BS..........................Chemistry/ST&A
Middle School Education.............................Middle & Secondary Ed/Ed
Multimedia Journalism................................(see Mass Communication)
Music/BA..............................................Music/Lib Arts
Music/BM................................................Music/Lib Arts
Composition
Instrumental Performance
Vocal Performance
Music Education/BSE.............................Music/Lib Arts
Instrumental
Vocal
Nursing/BSN ..................................................Nursing/H&HS
Philosophy/BA ..................................Pol Sci, Phil & Religion /Lib Arts
Physical Education, PK-12/BSED .................Health, Hum Perf & Rec/H&HS
Physics/BS, BSED ...................................Physics & Engr Physics/ST&A
Political Science/BA, BS .........................Pol Sci, Phil & Religion/Lib Arts
Psychology/BA, BS..................................Psychology/Lib Arts
Public Relations ........................................(see Mass Communication)
Recreation & Park Administration/BS ..........Health, Hum Perf & Rec/H&HS
Secondary Education ................................(see specific major)
Social Science/BA.................................History/Lib Arts
Social Studies/BSED............................History/Lib Arts
Social Work/BS ........................................Social Work/H&HS
Spanish/BSED .......................................Global Cult & Lang/Lib Arts
Sport Management/BS .........................Health, Hum Perf & Rec/H&HS
Technology Management/BS...................Polytechnic Studies/ST&A
Computer & Multimedia Graphics
Construction Management & Design
Facilities Management & Sustainability
Industrial & Safety Management
Sustainable Energy Systems Management
Technology Management
Telecommunication & Computer Networking
Telecomm & Computer Networking..............(see Polytechnic Studies)
Theatre/BA................................................Theatre & Dance/Lib Arts
Theatre/BFA..............................................Theatre & Dance/Lib Arts
Acting
Design/Technology
Musical Theatre
Television & Film ........................................(see Mass Communication)

BACHELOR OF ARTS DEGREE

Primarily for students who major in the arts, language, or literature, history and certain social sciences; often selected as a pre-professional degree by those who wish a broad education.

The areas from which majors must be chosen are:

Art
Chemistry
   Options: Business
   Chemistry
   Forensic Science
Communication Studies
Dance
English
   Options: Literature
   Writing
Global Cultures & Languages
   Options: Anthropology
   Foreign Language
   Global Studies
   History
Music
Philosophy
Political Science
Psychology
Social Science
Theatre

ART

36 Hour Major
Minor Required
(see also Bachelor of Fine Arts degree)

Required Courses:
AR 001  Foundation Review (0)
AH 110  Art History Survey I (3)
AH 210  Art History Survey II (3)
AR 100  Drawing I (3)
AR 104  Design Foundations (3)
AR 106  3D Foundations (3)
AR 201  Color Composition (3)
AR 202  Drawing II (3)
AR 325  Painting (3)
AR 332  Sculpture I (3)

Choose 6 Hours Additional Art History Courses (300-500 level)
Choose 3 to 18 hours of art/art history electives.
Every year, artwork must be entered in the Juried Student Assessment Exhibition.
CHEMISTRY

36-66 Hour Major – minor required on some options

Required Core Courses:
- CH 185  General Chemistry (5)
- CH 186  Found of Inorganic Chem (3)
- CH 187  Inorg Chem & Qual Analysis (2)
- CH 271  Found of Analy Chem (5)
- CH 306  Survey of Phys Chem (3)
- CH 313  Physical Chem Lab (3)
- CH 341  Found of Organic Chem (4)
- CH 342  Organic Chemistry Lab I (1)
- CH 498  Professional Presentation in Chemistry (1)
- CH 531  Found of Biochemistry (3)

OR
- UI 331  Found of Biochemistry (3)
- UI 443  Professional Experience in Chemistry (3)

Additional Requirements: 13 hours
- MA 139  Applied Calculus (3)
- PH 120  Introductory Physics I (5)
- PH 121  Introductory Physics II (5)

Choose One Option:

BUSINESS**
- AC 221  Principles of Accounting I (3)
- AC 222  Principles of Accounting II (3)
- EC 215  Principles of Microeconomics (3)
- EC 225  Principles of Macroeconomics (3)
- FI 361  Financial Management (3)
- IS 175  Information Systems I (3)
- MA 223  Elementary Probability and Statistics (3)

OR
- QM 257  Business Statistics (3)
- MG 301  Management and Organizational Behavior (3)
- MI 375  Management Information Systems (3)
- MK 301  Principles of Marketing (3)

**Upon completion of the B.A. in Chemistry (Business Option), students may apply directly to the MBA program at Southeast. For more information about the MBA degree program, contact the MBA office in the Robert A. Dempster Hall at Southeast Missouri State University.

CHEMISTRY OPTION – minor required
- CH 533  Biochemistry Laboratory (2)

FORENSIC SCIENCE OPTION – no minor required
- CH 420  Forensic Chemistry (4)
- CJ 100  Introduction to Criminal Justice (3)
- CJ 350  Criminalistics (3)
- FS 550  Crime Laboratory I: Microscopy (2)
- FS 552  Crime Laboratory II: Blood and Fluids (2)

Take one of the following courses:
- CH 575  Chemical Instrumentation (4)
- EV 460  Introduction to Toxicology (3)

COMMUNICATION STUDIES

30 Hour Major - Minor Required

Required Courses:
- SC 001  Exit Interview (0)
- SC 105  Fund of Oral Communication (3)

OR
- SC 155  Fund of Interpers Communication (3)
- SC 200  Advanced Public Speaking (3)
- SC 320  Group Comm & Decision-Making (3)
- UI 345  Nonverbal Communication (3)
- UI 425  Persuasion (3)

OR
- SC 560  Organizational Communication (3)

Choose 15 Hours from the Following:
- SC 215  Intercultural Communication (3)
- SC 301  Found of Health Comm (3)
- SC 310  Speech Writing (3)
- SC 314  Argumentation & Problem Solving (3)
- SC 330  Corporate & Professional Comm (3)
- SC 335  Interviewing (3)
- SC 355  Relational Comm Strategies (3)
- SC 360  Experiential Comm Proj (1-3)
- SC 406  Negotiation & Conflict Mgmt (3)
- SC 463  Independent Study (3)
- SC 482  Special Problems in Comm Studies (3)
- SC 483  Internship in Speech Comm (3)
- SC 510  Leadership & Team Building (3)
- SC 560  Organizational Communication (3)
- UI 301  Managerial Communication (3)
- UI 320  Modern Presidency (3)
- UI 423  Political Communication (3)
- UI 425  Persuasion (3)
- UI 504  Leaders of Social Change (3)

DANCE

47 Hour Major - Minor Required

Required Courses:
- DA 105  Rehearsal &Production I (2)
- DA 280  Movement Analysis I (3)
- DA 282  Movement Improvisation (3)
- DA 290  Dance in World Cultures (3)
- DA 305  Rehearsal/Production II (6)
- DA 380  Choreography I (3)
- DA 430  Princ of Teaching Dance (3)
- DA 485  Choreography II (3)
- DA 490  Dance History (3)

Choose 6 hours:*
- DA 211  Ballet I (2)
- DA 311  Ballet II (2)
- DA 411  Ballet III (2)
ENGLISH

36 Hour Major - Minor Required

Required Courses:
Writing (Choose 6 hours):
EN 201 Writing About Literature (3)
EN 275 Intro to Creative Writing (3)
EN 376 Advanced Composition* (3)
*Required for Writing option

Surveys (Choose 9 hours):
LI 260 English Lit I (3)
LI 261 English Lit II (3)
LI 270 American Lit I (3)
LI 271 American Lit II (3)

World Survey (Choose 3 hours):
LI 311 World Literature I (3)
LI 312 World Literature II (3)

Language (Choose 3 hours):
EN 486 Sociolinguistics (3)
UI 500 History of the English Language (3)
UI 501 Principles of Language (3)

Choose One 15 Hour Option:

LITERATURE OPTION

Early English Literature (Choose 3 hours):
LI 560 Chaucer (3)
LI 577 Studies in Early English Lit (3)
UI 431 Shakespeare Tragedies & Hum Cond (3)
UI 432 Shakespeare Hist/Comed & Hum Cond (3)

Late English Literature (Choose 3 hours):
LI 476 Early Twentieth-Century British Literature (3)
LI 578 Studies in Later English Lit (3)
UI 341 Victorian Studies (3)

American Literature (Choose 6 hours):
LI 421 Cross-Cultural Amer Voices (3)
LI 565 Southern Literature (3)
LI 568 19th Century American Novel (3)
LI 570 Twentieth-Century American Novel (3)
LI 571 Contemporary American Poetry (3)
LI 576 Am Fiction/21st Century (3)
World Literature (Choose 3 hours):
LI 510 Literature & the Bible (3)
UI 332 Images of Women in Literature (3)

WRITING OPTION

Writing Techniques (Choose 3 hours):
EN 376 Advanced Composition* (3)
EN 550 Style in Writing (3)
EN 572 Creative Non-Fiction Essay (3)
*Unless taken in the core

American Literature (Choose 3 hours):
LI 421 Cross-Cultural Amer Voices (3)
LI 542 Literature for the Young Adult (3)
LI 565 Southern Literature (3)
LI 570 Twentieth-Century American Novel (3)
LI 571 Contemporary American Poetry (3)
LI 576 Am Fiction/21st Century (3)

Professional Writing (Choose 3 hours):
EN 302 Small Press Publishing (3)
EN 311 Literary Manuscript Editing Practicum (3)
EN 435 Internship in English (3)
IU 309 Writing for Science & Technology (3)

Creative Writing (Choose 3 hours):
EN 470 Advanced Creative Writing: Poetry (3)
EN 478 Advanced Creative Writing: Fiction (3)

Choose 3 additional hours writing course not taken above

Additional Requirements:
EN 001 Writing Portfolio (Writing Option)
LI 001 Literature Portfolio (Literature Option)
xx xxx 9 Hours in One or Two Foreign Languages
(All Options)
OR
xx xxx 6 Hours in One Foreign Language

One of the following:
AN 341 Intro to Linguistic Anthropology (3)
EN 378 Grammars of English (3)
EN 486 Sociolinguistics (3)*
UI 500 History of the English Language (3)*
UI 501 Principles of Language (3)*
*If not taken elsewhere in the major

GLOBAL CULTURES AND LANGUAGES

45-48 Hour Major - Minor Required

Required Courses:
AN 101 Observing Cultures (3)
AN 181 Intro to Cultural Anthropology (3)
FR/GN/SN 220 French/German/Hispanic Lit (3)*
OR
Bachelor of Arts Majors

Southeast Missouri State University 2015-16

LI 220  Fiction & the Human Experience (3)
9 Hours of Same Foreign Language*
Other Foreign Language (3)

OR
GG 150  Peoples & Places of the World (3)**
PS 104  Comparative Political Systems (3)

*When choosing the Foreign Language or Global Studies option, language taken must match the track that is chosen.

**GG 150 required for Global Studies Option.

Choose One Option:

ANTHROPOLOGY OPTION (24 Hours):
AN 180  Intro Phys Anthro/Archaeology (3)
AN 317  Ethnographic Field Methods (3)
AN 341  Intro to Linguistic Anthro (3)
AN 380  Human Evol & Adaptations (3)
AN 382  Archaeology: Method & Theory (3)
AN 493  Anthro Theory Sem: Cultural/Linguist (3)

AN 4xx  Anthro Theory Sem: Phys/Archaeology (3)

Approved Anthropology Electives (6)***

FOREIGN LANGUAGE OPTION (24 Hours):
French Track:
Required Course:
FR 001  French Exit Exam (0)

Choose 24 hours:****
FL 311  Survey/French/German/Spanish Lit (3)
FL 400  Practicum in Foreign Language (3)
FL 852  Field Exp in Foreign Language (3)
FR 301  Interm French Composition (3)
FR 302  Exp French Lang & Culture (1)
FR 305  Conversational French (3)
FR 306  Contemporary France (3)
FR 311  Survey of French Lit II (3)
FR 315  Commercial French (3)
FR 320  French Pronunciation/Phonetics (3)
FR 330  French Grammar (3)
FR 402  Independent Study in French (3)
FR 415  17th Century French Lit (3)
FR 430  20th Century French Lit (3)
FR 495  Foreign Lang Internship in French (3)

German Track:
Required Course:
GN 001  German Exit Exam (0)

Choose 24 hours:****
FL 311  Survey/French/German/Spanish Lit (3)
FL 400  Practicum in Foreign Languages (3)
GN 301  German Composition (3)
GN 302  Exp German Lang & Culture (1)
GN 305  Conversational German (3)
GN 310  Survey of German Lit I (3)
GN 311  Survey of German Lit II (3)
GN 315  Commercial German (3)
GN 320  German Culture & Civ (3)
GN 330  German Grammar (3)
GN 340  German Phonetics/Pronunc (3)
GN 375  History of German Film (3)
GN 402  Independent Study in German (3)
GN 424  20th Century German Lit (3)
GN 440  Special Topics: German (3)
GN 495  Foreign Lang Intern Germany (3)
GN 816  Adv Lang & Culture Germany (3)

Spanish Track:
Required Course:
SN 001  Spanish Exit Exam (0)

Choose 24 hours:****
FL 311  Survey/French/German/Spanish Lit (3)
FL 400  Practicum in Foreign Languages (3)
FL 849  Int Crs/Foreign Language & Culture (3)
SN 300  Spanish American Culture (3)
SN 301  Inter Spanish Composition (3)
SN 302  Exp Spanish Lang/Culture (1)
SN 305  Conversational Spanish (3)
SN 306  Civilization of Spain (3)
SN 330  Spanish Grammar (3)
SN 400  Special Topics: Spanish (3)
SN 402  Independent Study in Spanish (3)
SN 403  Survey of Spanish Lit I (3)
SN 404  Survey of Spanish Lit II (3)
SN 430  Spanish American Lit I (3)
SN 435  Spanish American Lit II (3)
SN 495  For Lang Internship in Spanish (3)

GLOBAL STUDIES OPTION (21 Hours):
GG 180  Cultural Geography (3)
WH 130  Latin American Civ (3)

OR
EH 103  Modern European Civ (3)
xx 300-599 Study Abroad/Internship (3)
xx xxx  Approved Upper Division Elective (6)***

Chinese Track:
xx 300-599 Study Abroad in China (6)

Francophone Track:
FR 306  Contemporary France (3)

Germanic Track:
EH 516  History of Modern Germany (3)
GN 320  German Culture & Civilization (3)

Hispanic Track:
SN 300  Spanish American Culture (3)

OR
SN 306  Civilization of Spain (3)
WH 520  Latin Am Colonial History (3)

OR
WH 524  History of Mexico Since 1810 (3)
Japanese Track:
xx 300-599 Study Abroad in Japan (6)

***See Department for list of approved electives

****1-16 hours of French, German or Spanish may be earned through Study Abroad. Contact the Department of Global Cultures and Languages for details.

HISTORY

39 Hour Major - Minor Required

Required Courses:
GH 007  BA Portfolio Review (0)
GH 315  Historiography (3)
GH 415  Senior Seminar in History (3)

Choose 15 Senior Level Hours From:
EH xxx  (6)
US xxx  (6)
WH xxx  (3)

Choose 6 Senior Level Hours From:
EH, GH, US OR WH prefix courses (6)

Choose an additional 12 Hours of EH, GH, US, WH, HP 100, HP 200 or departmentally approved UI courses
(Only 3 Hours UI courses can be counted on major)

Additional Requirements – choose one option:
12 hours in the same foreign language
   OR
6 hours in one foreign language
   AND
6 hours in a different foreign language
   OR
6 hours in one foreign language
   AND
6 hours of EH/WH 300-500 level
   OR
6 hours in one foreign language
   AND
6 hours of mathematics/statistics (PY 271, PL 120, QM 275, SO/SW 242, MA 123 or above)
   OR
EH/WH 300-500 level - 12 hours
   OR

Second degree/major in one of the following:
   BA – Global Cultures and Languages
   BA – Political Science
   BS – Historic Preservation
   BSBA – International Business

MUSIC

50 Hour Major - Minor Required

(A grade of ‘C’ or better is required for all courses within the major.)

MH 251  History & Lit of Music to 1827 (3)
MH 252  Evolution of Musical Style Since 1827 (3)
MM 001  Aural Skills (0)
MM 002  Aural Skills (0)

MM 101  Theories of Music in Culture (3)
MM 102  Basic Harmony & Form (3)
MM 105  Aural Skills I (1)
MM 106  Aural Skills II (1)
MM 203  Adv Harmony, Form & Counterpoint (3)
MM 204  Twentieth Century Techniques (3)
MM 207  Aural Skills III (1)
MM 208  Aural Skills IV (1)

MM 312  Adv Form & Analysis (3)
MP 001  Recital (0)
MP 1xx  Applied Music (2)
MP 2xx  Applied Music (2)
MP 3xx  Applied Music (2)

MU 001  Piano Proficiency (0)
MU 002  Sophomore Review (0)
MU 110  Recitals & Concerts(six semesters) (0)

MU 151  Functional Piano I (1)
MU 152  Functional Piano II (1)
MU 253  Functional Piano III (1)
MU 254  Functional Piano IV (1)

MU 3xx  Instrumental or Vocal Ensemble (6)

UI 310  American Music Experience (3)
UI 402  Music in World Cultures (3)

Choose 3 Hours From:

   UI 315  Electronics & Computers in Music (3)
   UI 392  The Age of Romanticism (3)
   UI 393  The Age of Modernism (3)
   UI 394  Music & Culture: 1600-1750 (3)
   UI 396  The Age of Beethoven (3)
   UI 397  Music in Medieval & Renaissance Culture (3)

Additional Required Courses for Vocal Track:

MU 123  Singer's Diction I (1)
MU 124  Singer's Diction II (1)

Additional Requirement:
xx xxx  6 Hours in ONE Foreign Language

PHILOSOPHY

31 Hour Major - Minor Required

Required Courses:
PL 120  Symbolic Logic I (3)
   OR

PL 330  Symbolic Logic II (3)
PL 203  Aesthetics and The Arts (3)  
OR  
PL 204  Ethical Theory (3)  
OR  
PL 245  Social & Political Philosophy (3)  
PL 300  Ancient Philosophy (3)  
PL 310  Modern Philosophy (3)  
PL 390  Contemporary Philosophy (3)  
PL 400  Seminar: Topics in Philosophy (3)  
PL 450  Seminar: Meths & Movmts in Philosophy (3)  
PL 481  Practicum (1)  
Choose 9 Hours of PL or Departmentally Approved UI Courses (At least one course must be 300-400 level)

POLITICAL SCIENCE

30 Hour Major - Minor Required

Required Courses:
PS 001  Senior Assessment (0)  
PS 103  United States 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 21 Hours From the Following Categories:
(3 Hours from Each Category plus 6 Additional Hours)

American Government & Politics
PS 310  Govt & Politics in American States (3)  
PS 335  American Foreign Policy (3)  
PS 360  Political Parties & Voting Behavior (3)  
PS 365  Legislative Process (3)  
PS 387-389 Independent Study in Poli Sci (1-3)  
PS 390  American Judicial System (3)  
PS 418  Public Policy Analysis (3)  
PS 490  Constitutional Law (3)  
UI 320  Modern Presidency (3)  

Comparative Governments & Politics
IU 310  Gov & Pol of East Asia (3)  
PS 355  Less Developed Nations (3)  
PS 387-389 Independent Study in Poli Sci (1-3)  
PS 460  Govt & Politics West Europe (3)  
UI 350  Middle East Politics (3)  

International Politics
PS 280  Intro to Global Issues (3)  
PS 335  American Foreign Policy (3)  
PS 380  International Organizations (3)  
PS 387-389 Independent Study in Poli Sci (1-3)  
PS 580  International Politics (3)  
PS 595  International Law (3)  
UI 322  International Political Economy (3)  

Public Administration
PS 381-383 Internship in Political Science (1-3)  
PS 230  American Public Policy (3)  
PS 384-386 Internship in Political Science (3)  
PS 387-389 Independent Study in Poli Sci (1-3)  
PS 402  Fundamentals of Public Admin (3)  
PS 403  Public Personnel Admin (3)  
PS 405  Org Theory/Behavior (3)  
PS 415  Government Budgeting Process (3)  
PS 418  Public Policy Analysis (3)  
PS 425  Administrative Law & Procedure (3)  

Political Theory
PS 387-389 Independent Study in Poli Sci (1-3)  
UI 342  Modern Political Thought (3)  
UI 357  Early American Political Thought (3)  
UI 358  Foundations of Political Thought (3)  
UI 361  Contemporary Political Theory (3)  

Additional Requirement:
xx xxx  12 Hours in ONE Foreign Language

PSYCHOLOGY

54 Hour Major – No Minor Required

Required Courses:
PY 101  Psych Perspect/Hum Behr (3)  
PY 220  Psychological Devel Across Life Span (3)  
PY 250  Applied Psychology (3)  
PY 271  Research Design & Analysis I (3)  
PY 358  Social Psychology (3)  
PY 362  Learning & Memory (3)  
PY 432  Intro to Personality (3)  
PY 440  Abnormal Psychology (3)  
PY 460  Cognitive Processes (3)  
PY 466  Intro to Physiological Psychology (3)  
PY 497  Historical Development (3)  
PY 531  Psychological Testing (3)

Choose 18 hours from:
PY 120  The Child: Devel/Concept to Adolesc (3)  
OR  
PY 222  Development of the Adolescent (3)  
PY 251  Industrial/Organizational Psychology (3)  
PY 301  Cross-Cultural Psychology (3)  
PY 325  Psychological Devel of the Family (3)  
PY 353  Social Cognition (3)  
OR  
PY 359  Psychology & the Law (3)  
PY 441  Intro to Clinical Psychology (3)  
PY 444  Childhood Psychopathology (3)  
PY 495  Internship in Psychology (3)  
PY 525  Maturity & Aging (3)  
#Contact Internship coordinator
Additional requirements:
Choose 6 hours from:
- AN 100  Found of Human Behavior (3)
- AN 181  Cultural Anthropology (3)
- BS 103  Human Biology (3)
- FN 235  Nutrition for Health (3)
- SO 102  Society, Culture & Social Behr (3)
- SW 207  Understand Cultural/Social Diversity (3)

SOCIAL SCIENCE
39 Hour Major – No Minor Required

Required Courses:
- OS 200  Survey of Social Science (3)
- OS 300  Problems in Social Science (3)
- OS 400  Social Science Research Methods (3)

Choose one of the following courses:
- MA 155  Statistical Reasoning (3)
- MA 223  Elementary Probability and Statistics (3)
- PY 271  Research Analysis I (3)
- QM 257  Business Statistics (3)
- SO 242/SW242 Statistics for Social Scientists (3)

Choose 21 Hours in a Concentration in one of the following areas.
At least 15 Hours must be at the 300-500 level:
- Anthropology
- Criminal Justice
- Economics
- History (any prefix)
- Political Science
- Psychology
- Sociology

Choose 6 Hours from any courses (300-599) in the areas below
except for the area of concentration:
- Anthropology
- Criminal Justice
- Economics
- History (any prefix)
- Political Science
- Psychology
- Sociology

Language and Math/Statistics Options:
Students may substitute up to 6 hours in foreign language and/or additional math/statistics courses from the above hours, in either category, with the approval of the Coordinator of the Social Science B.A.

University Studies Interdisciplinary Program Options:
UI courses in Social Science may be substituted in any category with the approval of the Coordinator of the Social Science B.A. The program will maintain a list of acceptable substitutions.

THEATRE

48 Hour Major - Minor Required

Required Courses:
- TH 105  Rehearsal & Production I (2)
- TH 155  Makeup (3)
- TH 218  Acting I (3)
- TH 231  Stagecraft I (3)
- TH 251  Costume Construction (3)
- TH 305  Rehearsal & Production II (6)
- TH 381  Script Analysis (3)
- TH 385  Directing I (3)
- TH 490  Theatre History I (3)
- TH 495  Theatre History II (3)

Choose 3 hours:
- TH 265  Drawing for Theatre I (3)
- TH 316  Acting II (3)

Select 13 Hours from:*
- TH 122  Class Voice for Musical Theatre I (3)
- TH 219  Auditioning I (1)
- TH 220  Auditioning II (2)
- TH 222  Class Voice/Mus Theatre II (3)
- TH 223  Movement for the Actor I (3)
- TH 266  Drawing for the Theatre II (3)
- TH 317  Voice for the Actor I (3)
- TH 318  Musical Theatre Performance I (3)
- TH 319  Acting for Film and Television (3)
- TH 321  Stage Combat I (3)
- TH 322  Class Voice/Mus Theatre III (2)
- TH 323  Movement for the Actor II (3)
- 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  Performing Arts Mgmt (3)
- TH 386  Sound Design I (3)
- TH 395  Period & Style (3)
- TH 416  Acting Styles (3)
- TH 417  Voice for the Actor II (3)
- TH 418  Musical Theatre Performance II (3)
- TH 429  Accents/Dialects for the Actor (3)
- TH 431  Stage Combat II (3)
- TH 450  Stage Lighting II (3)
- TH 451  Costume Design II (3)
- TH 471  Scenic Design II (3)
- TH 485  Directing II (3)
- TH 486  Sound Design II (3)

*9 hours must be at the 300-400 level.
BACHELOR OF FINE ARTS DEGREE

The Bachelor of Fine Arts degree is offered in the areas of Art (Department of Art), Dance (Department of Theatre and Dance) and Theatre (Department of Theatre and Dance). Music Performance is offered under the Bachelor of Music degree (Department of Music) page 127.

The areas from which majors must be chosen are:
- Art
- Dance
- Theatre

ART

A 3.0 grade point average in the major must be maintained. Grade of ‘C’ or better required in all BFA-Art major courses.

81 Hour Major – No Minor Required

Required Courses:
- AH 110  Art History Survey I (3)
- AH 210  Art History Survey II (3)
- AR 001  Foundation Review (0)
- AR 100  Drawing I (3)
- AR 104  Design Foundations (3)
- AR 106  3D Foundations (3)
- AR 201  Color Composition (3)
- AR 202  Drawing II (3)
- AR 302  Printmaking (3)
  OR
- AR 303  Screenprinting (3)
  OR
- AR 501  Intaglio Printmaking (3)
  OR
- AR 502  Lithography Printmaking (3)
- AR 314  Drawing III: Adv Problems (3)
  OR
- AR 319  Intro to Graphic Design (3)
- AR 323  Art & New Technology (3)
- AR 325  Painting (3)
- AR 330  Fibers I (3)
- AR 332  Sculpture I (3)
- AR 342  Ceramics I (3)
- AR 490  BFA Studio Capstone (3)

Choose 6 additional hours of Art History courses (300-500 level)

Elective Art Courses (30)

Studio majors select 12-21 departmentally approved credit hours in one of the following specialized areas: Painting; Printmaking; Sculpture; Ceramics; Graphic Design/Illustration; or Digital Arts.

All BFA majors will choose an additional 9 to 18 departmentally approved elective credit hours.

Every year, artwork must be entered in the Juried Student Assessment Exhibition.

DANCE

83 Hour Major – No Minor Required

(A grade of “C” is required in each course within the BFA-Dance major. Students must maintain a 3.0 gpa in the major.)

All students wishing to advance in level will be required to successfully complete an annual jury as arranged by department faculty.

Required Courses:
- DA 105  Rehearsal & Production I (2)
- DA 280  Movement Analysis I (3)
- DA 282  Movement Improv (3)
- DA 290  Dance in World Cultures (3)
- DA 305  Rehearsal & Production II (6)
- DA 310  Dance Musicianship (3)
- DA 380  Choreography I (3)
- DA 391  Topics in Dance (6)
- DA 396  Movement Analysis II (3)
- DA 430  Principles of Teaching Dance (3)
- DA 485  Choreography II (6)
- DA 490  Dance History (3)
- DA 498  BFA Project (2)
- DA 499  Internship (2)

Choose 8 hours:
- DA 211  Ballet I (2)
- DA 311  Ballet II (2)
- DA 411  Ballet III (2)

Choose 8 hours:
- DA 221  Modern Dance I (2)
- DA 321  Modern Dance II (2)
- DA 421  Modern Dance III (2)

Choose 8 hours:
- DA 226  Jazz Dance I (2)
- DA 326  Jazz Dance II (2)
- DA 426  Jazz Dance III (2)

Choose 6 hours:
- DA 227  World Dance I (2)
- DA 228  Hip Hop Dance I (2)
- DA 236  Tap I (2)
- DA 327  World Dance II (2)
- DA 328  Hip Hop Dance II (2)
- DA 336  Tap II (2)
- DA 436  Tap III (2)
- TH 155  Makeup (3)
- TH 218  Acting I (3)
- TH 251  Costume Construction (3)
- TH 350  Stage Lighting I (3)
THEATRE

81-83 Hour Major – No Minor Required

(A grade of “C” is required in each course within the BFA-Theatre major. Students must maintain a 3.0 GPA in the major.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>TH 105</td>
<td>Rehearsal &amp; Production I</td>
<td>2</td>
</tr>
<tr>
<td>TH 107</td>
<td>Theory Skills/Analysis for Mus Theatre</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
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<tr>
<td>TH 231</td>
<td>Stagecraft I</td>
<td>3</td>
</tr>
<tr>
<td>TH 155</td>
<td>Makeup</td>
<td>3</td>
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<tr>
<td>TH 218</td>
<td>Acting I</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
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<tr>
<td>TH 101</td>
<td>Acting for Non-Majors</td>
<td>3</td>
</tr>
<tr>
<td>TH 251</td>
<td>Costume Construction</td>
<td>3</td>
</tr>
<tr>
<td>TH 305</td>
<td>Rehearsal &amp; Production II</td>
<td>6</td>
</tr>
<tr>
<td>TH 307</td>
<td>Musical Theatre Score Study</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
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<tr>
<td>TH 375</td>
<td>Performing Arts Mgmt</td>
<td>3</td>
</tr>
<tr>
<td>TH 381</td>
<td>Script Analysis</td>
<td>3</td>
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<tr>
<td>TH 385</td>
<td>Directing I</td>
<td>3</td>
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<tr>
<td>TH 488</td>
<td>Senior Portfolio</td>
<td>3</td>
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<tr>
<td>TH 490</td>
<td>Theatre History I</td>
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<td>TH 495</td>
<td>Theatre History II</td>
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<tr>
<td>TH 498</td>
<td>BFA Project</td>
<td>2</td>
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<td>TH 499</td>
<td>Internship</td>
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</table>

*Required for Musical Theatre Option

**Required for Acting Option

***Required for Design/Technology Option

Choose One Option:

**ACTING (41 Hours)**

<table>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TH 218</td>
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<tr>
<td>TH 219</td>
<td>Auditioning I</td>
<td>1</td>
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<tr>
<td>TH 220</td>
<td>Auditioning II</td>
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<tr>
<td>TH 222</td>
<td>Movement for the Actor I</td>
<td>3</td>
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<tr>
<td>TH 316</td>
<td>Acting II</td>
<td>6</td>
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<tr>
<td>TH 317</td>
<td>Voice for the Actor I</td>
<td>3</td>
</tr>
<tr>
<td>TH 319</td>
<td>Acting for Film &amp; Television</td>
<td>3</td>
</tr>
<tr>
<td>TH 321</td>
<td>Stage Combat I</td>
<td>3</td>
</tr>
<tr>
<td>TH 323</td>
<td>Movement for the Actor II</td>
<td>3</td>
</tr>
<tr>
<td>TH 416</td>
<td>Acting Styles</td>
<td>3</td>
</tr>
<tr>
<td>TH 417</td>
<td>Voice for the Actor II</td>
<td>3</td>
</tr>
<tr>
<td>TH 429</td>
<td>Accents/Dialects for the Actor</td>
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Choose 5 hours:

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<td>DA 211</td>
<td>Ballet I</td>
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<tr>
<td>DA 221</td>
<td>Modern Dance I</td>
<td>2</td>
</tr>
<tr>
<td>DA 226</td>
<td>Jazz Dance I</td>
<td>2</td>
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<tr>
<td>DA 236</td>
<td>Tap Dance I</td>
<td>2</td>
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<tr>
<td>DA 282</td>
<td>Movement Improv</td>
<td>3</td>
</tr>
<tr>
<td>TH 122</td>
<td>Class Voice for Musical Theatre I</td>
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<td>TH 318</td>
<td>Musical Theatre Perf I</td>
<td>3</td>
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<tr>
<td>TH 350</td>
<td>Stage Lighting</td>
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<td>TH 351</td>
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<tr>
<td>TH 371</td>
<td>Scenic Design I</td>
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<tr>
<td>TH 386</td>
<td>Sound Design I</td>
<td>3</td>
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<tr>
<td>TH 431</td>
<td>Stage Combat II</td>
<td>3</td>
</tr>
<tr>
<td>TH 485</td>
<td>Directing II</td>
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**DESIGN/TECHNOLOGY OPTION (39 Hours)**

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<tr>
<td>TH 265</td>
<td>Drawing for the Theatre I</td>
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</tr>
<tr>
<td>TH 266</td>
<td>Drawing for the Theatre II</td>
<td>3</td>
</tr>
<tr>
<td>TH 331</td>
<td>Stagecraft II</td>
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<td>TH 350</td>
<td>Stage Lighting I</td>
<td>3</td>
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<tr>
<td>TH 351</td>
<td>Costume Design I</td>
<td>3</td>
</tr>
<tr>
<td>TH 361</td>
<td>Scene Painting</td>
<td>3</td>
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<td>TH 371</td>
<td>Scenic Design I</td>
<td>3</td>
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<td>TH 386</td>
<td>Sound Design I</td>
<td>3</td>
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<tr>
<td>TH 395</td>
<td>Period &amp; Style</td>
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<td>TH 450</td>
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<td>TH 451</td>
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<tr>
<td>TH 486</td>
<td>Sound Design II</td>
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**MUSICAL THEATRE OPTION (41 Hours)**

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<tr>
<td>DA 211</td>
<td>Ballet I</td>
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<tr>
<td>MM 105</td>
<td>Aural Skills I</td>
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<tr>
<td>MU 151</td>
<td>Functional Piano I</td>
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<tr>
<td>TH 122</td>
<td>Class Voice for Musical Theatre (3)</td>
<td>3</td>
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<tr>
<td>TH 218</td>
<td>Acting I (3) (in addition to required course)</td>
<td>3</td>
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<tr>
<td>TH 219</td>
<td>Auditioning I</td>
<td>1</td>
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<tr>
<td>TH 220</td>
<td>Auditioning II</td>
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<td>TH 222</td>
<td>Class Voice for Musical Theatre (3)</td>
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<tr>
<td>TH 316</td>
<td>Acting II</td>
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<td>TH 318</td>
<td>Musical Theatre Performance I</td>
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<td>TH 322</td>
<td>Class Voice for Musical Theatre III</td>
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<tr>
<td>TH 418</td>
<td>Musical Theatre Performance II</td>
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Choose 7 Hours from (2 hours must be 300-400 level):

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<tr>
<td>DA 211</td>
<td>Ballet I (2) (in addition to required course)</td>
<td>2</td>
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<tr>
<td>DA 221</td>
<td>Modern Dance I</td>
<td>2</td>
</tr>
<tr>
<td>DA 226</td>
<td>Jazz Dance I</td>
<td>2</td>
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<tr>
<td>DA 236</td>
<td>Tap Dance I</td>
<td>2</td>
</tr>
<tr>
<td>DA 282</td>
<td>Movement Improv</td>
<td>3</td>
</tr>
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<td>DA 311</td>
<td>Ballet II</td>
<td>2</td>
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<td>DA 321</td>
<td>Modern Dance II</td>
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<tr>
<td>DA 326</td>
<td>Jazz Dance II</td>
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<td>DA 336</td>
<td>Tap Dance II</td>
<td>2</td>
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<tr>
<td>DA 411</td>
<td>Ballet III</td>
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<td>DA 421</td>
<td>Modern Dance III</td>
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<tr>
<td>DA 426</td>
<td>Jazz Dance III</td>
<td>2</td>
</tr>
<tr>
<td>DA 436</td>
<td>Tap Dance III</td>
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**Additional Requirements:**

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<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>MM 101</td>
<td>Theories/Music in Culture</td>
<td>3</td>
</tr>
<tr>
<td>UI 384</td>
<td>History of the Musical</td>
<td>3</td>
</tr>
</tbody>
</table>
BACHELOR OF GENERAL STUDIES DEGREE

Allows individual structuring of a degree program without requiring major or minor fields; University Studies requirements must be completed. In addition to completing this program through traditional face-to-face courses, the Bachelor of General Studies degree may also be completed through the Southeast regional campuses or Southeast Online.

Minimum Degree Requirements 120 Hours
University Studies Requirements 51 Hours
300-500 Level Courses Required 39 Hours
Non-business Courses Required 90 Hours

BACHELOR OF SCIENCE DEGREE

Primarily for students entering various scientific fields. The areas from which majors must be chosen are:

Agribusiness
  Options: Agriculture Industry
  Animal Science
  Horticulture
  Plant & Soil Science

Biology
  Options: Biomedical Sciences
  Marine Biology
  Microbiology, Cellular & Molecular Biology & Biotechnology
  Organismal, Ecological, & Evolutionary Biology
  Pre-Physician Assistant
  Wildlife and Conservation Biology

Chemistry
  Options: Chemistry
  Biochemistry
  DNA Analysis
  Forensic Chemistry

Commercial Photography
Communication Disorders
Computer Information Systems
Computer Science
Corporate Communication
Criminal Justice
  Options: Corrections
  Criminology
  Law Enforcement

Cybersecurity
Economics
Emergency Preparedness
Engineering Physics
  Options: Computer Applications

Electrical Applications
Mechanical Applications

Engineering Technology
  Options: Electrical & Control
  Mechanical & Manufacturing Systems

Environmental Science
Health Communication
Health Management
  Options: Exercise Science
  Health Promotion

Health Sciences
  Options: General Health Sciences
  Pre-Physical/Occupational Therapy

Healthcare Management
  Options: Informatics
  Quality & Patient Safety

Historic Preservation
Hospitality Management
Human Environmental Studies
  Options: Child Development
  Dietetics
  Family Studies
  Fashion Merchandising
  Interior Design

Interdisciplinary Studies
Mass Communication
  Options: Advertising
  Multimedia Journalism
  Public Relations
  Television & Film

Mathematics:
  Options: Actuarial Science
  Applied Mathematics & Statistics
  Pure Mathematics

Medical Laboratory Science
Physics
Political Science
Psychology
Recreation & Park Administration
Social Work
Sport Management
Technology Management
  Options: Computer & Multimedia Graphics
  Construction Management and Design
  Facilities Management & Sustainability
  Industrial & Safety Management
  Sustainable Energy Systems
  Management
  Technology Management
  Telecommunication & Computer Networking
AGRICULTURE

67-70 Hour Major - No Minor Required

Required Courses:
- AC 221  Principles of Accounting I (3)
- AND
- AD 101  Intro to Microcomp Appl (3)
- OR
- AG 208  Agriculture Bus Data Analysis (3)
- AG 381  Agribusiness Management II (3)
- AG 245  Agricultural Economics (3)
- AG 250  Agribusiness Management (3)
- AG 334  Agribusiness Finance (3)
- AG 355  Agriculture Seminar (1)
- AG 447  Mktg of Agri Products (3)
- AG 465  Agriculture Internship (3-6)
- OR
- AG 469  Undergrad Research (3)
- AG 470  Agribusiness Sales (3)
- AO 120  Plant Science (3)
- AO 125  Plant Science Lab (1)
- AY 101  Animal Science (3)
- HO 110  Intro to Horticulture (3)
- UI 436  Agricultural Ethics (3)

Additional Requirements (8 hours):
- CH 181  Basic Princ of Chemistry (5)
- OR
- CH 185  General Chemistry (5)
- MA 134  College Algebra (3)

Choose One of the Following Options (30 Hours):

Agriculture Industry

30 hours by advisement based on student plans/background, selected from AG, AO, AY, HO prefix courses or may include AAS Agriculture degree courses transferred to Southeast.

Animal Science
- AY 105  Animal Science Experience (2)
- AY 304  Princ of Animal Nutrition (3)
- AY 350  Animal Reproduction (3)
- AY 360  Animal Immun & Diseases (3)

Choose 21 hours from:
- AG 371  Topics in Agriculture (2)
- AO 301  Forages (3)
- AY 200  Companion Animals (3)
- AY 205  Horse Science (3)
- AY 220  Animal Handling (1)
- AY 300  Domestic Animal A&P I (3)
- AY 305  Advanced Horse Science (3)
- AY 310  Domestic Animal A&P II (3)
- AY 320  Meat Science (3)
- AY 375  Animal Breed Improvement (3)
- AY 405  Beef Production (3)
- AY 425  Feeding Nonruminants (3)
- AY 435  Feeding Ruminants (3)
- AY 440  Adv Beef Production (3)

Horticulture
- AO 215  Soils (3)
- AO 323  Plant Pathology (3)
- HO 215  Practical Hort Experiences (2)
- HO 225  Ident/Use of Deciduous Plants (2)
- HO 235  Ident/Use of Evergreen Plants (2)
- HO 245  Ident/Use of Interior/Tropical Plants (2)
- HO 255  Ident/Use of Annual/Perennial Plants (2)

Choose 14 Hours From:
- AG 551  Water Management (3)
- AO 322  Weed Science (3)
- HO 215  Practical Hort Experiences (2)
- HO 310  Alternative Agriculture (3)
- HO 320  Nursery Admin & Culture (3)
- HO 321  Adv Plant Propagation (3)
- HO 330  Strategic Landscape Design (3)
- HO 342  Prod of Horticulture Crops (3)
- HO 350  Adv Greenhouse Mgt (4)
- HO 355  Interior Plantscaping (3)
- HO 430  Adv Turfgrass Management (3)
- HO 431  Landscape Inst/Maint (3)
- HO 445  Compost/Utilzn in Hort Systems (3)
- HO 450  Vineyard Operations (3)
- HO 464  Adv Horticulture Technologies (3)
- HO 470  Strategic Urban Hort (3)

Plant and Soil Science
- AG 440  Precision Agriculture (3)
- AO 215  Soils (3)
- AO 260  Integrated Pest Mgmt (3)
- AO 323  Plant Pathology (3)
- AO 420  Crop Physiology (3)
- AO 427  Soil Fertility & Plant Nutrtn (3)
- AO 480  Crop Production (3)

Choose 11-12 hours from the following:
- AG 444  Spatial Analysis (3)
- AO 301  Forages (3)
- AO 321  Cotton & Rice (3)
- AO 322  Weed Science (3)
- AO 327  Sustainable Agriculture (3)
- AO 340  Agroecosystems Analysis (3)
- AO 401  Ag & Natural Resource Mgmt (3)
- AO 415  Crop Systems Management (3)
- AO 444  Prin of Plant Breeding (3)
- AO 555  Soil Class & Resource Mgmt (3)
- AY 105  Animal Science Experience (2)
BIOLOGY

49-51 hour major - No minor required

Required Courses:
- BI 151 Biological Reasoning (3)
- BI 153 Intro to Organismal Biology (4)
- BI 154 Genetics and Cell Biology (4)
- BI 471-473 Internship in Biology (2)
  OR
- BI 551-553 Biology Field Studies (2)
  OR
- BI 589-591 Biological Research (2)
- BI 489 Analysis of Biological Issues (2)
- CH 185/085/005 General Chemistry (5)

Choose one Math course:
- MA 134 College Algebra (3)
- MA 137 Precalculus (5)
- MA 139 Applied Calculus (3)
- MA 140 Analyt Geometry & Calc I (5)

Choose 3 hours of additional math:
- MA xxx Additional Math (MA 133 or higher) (3)

Choose One of the Following Options:

BIOMEDICAL SCIENCES
- BI 381 Molecular Genetics (3)
- ZO 331 Animal Physiology (3)

Any BI, BO, ZO, BT courses, at least 10 credits
300 level and above (17)

Non-Biology Requirements:
- CH 186 Found of Inorganic Chem (3)
- CH 187 Inorganic Chem & Qual Analysis Lab (2)
- CH 341 Found of Organic Chem (4)
- CH 342 Organic Chem Lab I (1)
- GO 320 Oceanography (3)
- PH 106 Physical Concepts (3)

*A minimum of 3 hours must be taken from the Gulf Coast Research Laboratory or comparable institution or the equivalents listed.

MICROBIOLOGY, CELLULAR AND MOLECULAR BIOLOGY, AND BIOTECHNOLOGY
- BI 200 General Microbiology (3)
- BI 245 Lab Methods in Biotechnology (3)
- BI 381 Molecular Genetics (3)

Choose 6 hours from this list:
- BI 404 Cell Biology (3)
- BI 414 Prob in Cell & Molecular Biology (3)
- BI 441 Virology (3)
- BI 442 Immunology (3)
- BI 443 Epidemiology (3)
- BI 445 Microbial Physiology (3)
- BI/BT 450 Inv Molecular Biology & Biotechnology (3)
- BI 460 Intro to Toxicology (3)
- BI 543 Pathogenic Microbiology (2)
- BI 544 Pathogenic Microbiology Lab (1)
- BO 445 Plant Physiology (3)
- ZO 331 Animal Physiology (3)
- ZO 414 Developmental Biology (3)
- ZO 441 Parasitology (3)

Any BI, BO, ZO, BT courses, 300 level and above (8)

Non-Biology Requirements:
- CH 186 Found of Inorganic Chem (3)
- CH 187 Inorganic Chem & Qual Analysis Lab (2)
- CH 341 Found of Organic Chem (4)
- CH 342 Organic Chem Lab I (1)
- UI 331 Found of Biochemistry (3)

ORGANISMAL, ECOLOGICAL, AND EVOLUTIONARY BIOLOGY
- BI 300 Intro to Evolutionary Biology (3)
- BI 352 General Ecology (3)
- BO 200 Plant Biology (4)
- ZO 200 Animal Biology (3)
Any BI, BO, ZO, BT courses, 300 level and above (10) *

Non-Biology Requirements:
UI 373  Earth/Life Through Time (3)

**PRE-MEDICAL STUDIES**
BI 381  Molecular Genetics (3)
BS 113  Anat & Phys I (4)
BS 114  Anat & Phys II (4)

**Choose one of the following:**
BI 420  Management of Wildlife Populations (3)
BI 430  Management of Wildlife Habitat (3)
BI 432  Conservation Biology (3)
BI 440  Wetland Ecology and Management (3)

**Biology Electives – choose 7 hours:**
BI 420  Management of Wildlife Populations (3)
BI 430  Management of Wildlife Habitat (3)
BI 432  Advanced Ecology (3)
BI 434  Marine Evolution Ecology (3)
BI 435  Conservation Biology (3)
BI 438  Biogeography (3)
BI 440  Ecology and Management of Wetlands (3)
BI 452  Freshwater Ecology (3)
BI 469  Wildlife Toxicology (3)
BI 471-473  Internship (1-3)
BI 493  Readings in Biology (2)
BI 551-553  Biology Field Studies (1-3)
BI 589-591  Biological Research (1-3)
BO 361  Systematic Botany (3)
BO 420  Ethnobotany (3)
BO 445  Plant Physiology (3)
BO 461  Native Aquatic Plants (3)
BO 469  Field Botany (3)
ZO 420  Animal Behavior (3)
ZO 441  Parasitology (3)
ZO 445  Aquatic Entomology (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)

**Non-Biology Requirements:**
GO 110  Physical Geology (3)
*At least one course must be BO prefix and one course ZO prefix

**CHEMISTRY**

**49-62 Hour Major - No Minor Required**

**Required Core Courses**
CH 185  General Chemistry (5)
CH 186  Found of Inorganic Chem (3)
CH 187  Inorg Chem & Qual Analysis (2)
CH 271  Found of Analy Chem (5)
CH 311  Found of Physical Chem (4)
CH 313  Physical Chemistry Laboratory (3)
CH 341  Found of Organic Chem (4)
CH 342  Organic Chemistry Lab (1)
CH 498  Professional Presentation in Chemistry (1)
CH 531/UI 331  Found of Biochemistry (3)
UI 443  Professional Experience in Chemistry (3)

**Additional Requirements: 19 hours**
MA 140  Analytical Geometry and Calculus I (5)
MA 145  Analytical Geometry and Calculus II (4)
PH 120  Introductory Physics I (5)
**AND**
PH 121  Introductory Physics II (5)
**OR**
PH 230  General Physics I (5)
**AND**
PH 231  General Physics II (5)

**Choose One Of The Following Options:**

**ACS CERTIFIED CHEMISTRY OPTION – 15-16 hours**
CH 312  Adv Physical Chem (3)
CH 343  Adv Organic Chem (3)
CH 344  Organic Chem Lab II (2)

**Additional Requirements:**

**Choose one seven to eight hour track:**

**Track A:**

**Required Course:**
CH 39x  Undergrad Research (4)

**Choose Four Hours From:**
CH 532/533  Adv Biochemistry/Biochem Lab (4)
CH 563  Adv Inorganic Chem (4)
CH 575  Chem Instrumentation (4)

**Track B:**

**Two of the following to include a minimum of 3 hours of lab work:**
CH 420  Forensic Chem (4)
CH 447  Adv 1&2 Dim NMR Tech (3)
CH 450  Environ Chemistry (3)
CH 532/533  Adv Biochemistry/Biochem Lab (4)
CH 545  Organic Preps & Characterization (3)
CH 563  Adv Inorganic Chemistry (4)
CH 575  Chem Instrumentation (4)

**BIOCHEMISTRY OPTION – 25 hours**
BI 154  Genetics & Cellular Biology (4)
BI 200  General Microbiology (3)
BI 381  Genetics (3)
BI 404  Cell Biology (3)
CH 312  Adv Physical Chem (3)
CH 343  Adv Organic Chem (3)
CH 344  Organic Chem Lab II (2)
CH 532  Advanced Biochemistry (2)
CH 533  Biochemistry Laboratory (2)

**DNA ANALYSIS OPTION – 28 hours**
BI 154  Genetics & Cellular Biology (4)
BI 200  General Microbiology (3)
BI 245  Lab Methods in Biotechnology (3)
BI 381  Genetics (3)
BI 450  Molecular Biology (3)
CH 312  Adv Physical Chem (3)
CH 420  Forensic Chemistry (4)
CH 533  Biochemistry Lab (2)
MA 423  Stat Analysis for Forensic Sci (3)

**FORENSIC CHEMISTRY OPTION – 26 hours**
CH 343  Adv Organic Chem (3)
CH 420  Forensic Chemistry (4)
CH 533  Biochemistry Lab (2)
CH 575  Chemical Instrumentation (4)
CJ 350  Criminalistics (3)
EV 460  Introduction to Toxicology (3)
FS 550  Crime Lab I: Microscopy (2)
FS 552  Crime Lab II: Blood & Fluids (2)
MA 423  Statistical Analysis for Forensic Science (3)

**COMMERCIAL PHOTOGRAPHY**

75 Hour Major – No Minor Required

**Required Courses:**
AR 104  Design Foundations (3)
AR 201  Color Composition (3)
AR 324  Digital Art Photo (3)
BA 361  Prin of Entrepreneurship (3)
BA 561  Entrepreneurship Plan & Strat (3)
OR
MK 343  Advertising & Promotion (3)
OR
MK 555  Internet Marketing (3)
CH 180  Chemistry in Our World (3)
GM 180  Intro to Technical Graphics (3)
GM 200  Vector/Bitmap Graph for Indus (3)
GM 282  Vector Graphics (3)
GM 320  Graphic User Interface Design (3)
OR
GM 385  HDSLR Video Capture (3)
GM 490  Adv Graphics Projects (3)
MA 133  Plane Trigonometry (3)
OR
MA 223  Elementary Stats (3)
MA 134  College Algebra (3)
MC 101  Mass Comm & Society (3)
MC 201  Writing for Mass Media (3)
MC 310  Advertising Comm Strat (3)
MC 312  Advertising Creative Conc (3)
MK 301  Principles of Marketing (3)
PG 284  Photo Fundamentals (3)
PG 285  Comm Photo Lighting (3)
PG 286  Comm Studio Photo (3)
PG 300  Adv Lighting Tech (3)
PG 325  Pract of Comm Photo (3)
PG 384  Comm Photo I (3)
PG 484  Comm Photo II (3)

**COMMUNICATION DISORDERS**

35 Hour Major - Minor Required

(See Admission to Communication Disorders Program criteria under Admissions, page 19)

**Required Courses:**
CD 211  Anat & Physiology/Speech Mechanism (4)
CD 225  Phonetics (3)
CD 230  Intro to Communication Disorders (4)
CD 340  Normal Speech/Language Development (3)
CD 371  Anat & Physiology/Hearing Mechanism (3)
CD 402  Clinical Practicum/Comm Disorders (3)
CD 406  Service Delivery in Comm Disorders (4)
CD 411  Nature Assmt/Intrvntn Spch/Lang Disorders (5)
CD 426  Hearing Disorders: Audiological Assmt (3)

**Choose one of the following:**
CD 510  Multicultural Issues in Comm Disorders (3)
CD 525  Aural Rehabilitation (3)

**Additional Requirements:**
BS 103  Human Biology (3)
EN 140  Rhetoric & Critical Thinking (3)
MA 134  College Algebra (3)
PS 103  U.S. Political Systems (3)
PY 101  Psych Perspectives/Hum Behr (3)
SC 105  Fund of Oral Communication (3)
US 105  American History I (3)
OR
US 107  American History II (3)

**Choose One of the Following:**
MA 155  Statistical Reasoning (3)
OR
PY 271 Research Design & Analysis (3)
OR
PY 572 Intro Behavioral Stats (3)

Choose One of the Following:
CH 180 Chemistry in Our World (3)
PH 106 Physical Concepts (3)

Choose One of the Following:
CD 110 Language Culture of Deaf (3)
SO 102 Society, Culture & Social Behavior (3)

NOTE: State and national certification in speech-language pathology (American Speech-Language-Hearing Association and Missouri Department of Elementary and Secondary Education) requires that applicants complete a core of courses in the humanities, professional education, biological/physical sciences, mathematics, behavioral and social sciences. Students should work closely with a departmental advisor in selecting appropriate University Studies and professional education courses which meet these certification requirements.

COMPUTER INFORMATION SYSTEMS

82 Hours
Minor required for some tracks

Core Courses:
IS 003 Computer Info Systems Assmnt (0)
IS 130 Application Development I (3)
IS 175 Information Systems I (3)
IS 245 Web Devlp & Security (3)
IS 275 Information Systems II (3)
IS 320 Human Computer Interaction (3)
IS 330 Application Development II (3)
IS 340 Information Technology (3)
IS 360 Mobile Application Development (3)
IS 375 Database & Info Systems (3)
IS 445 Systems Analysis & Design (3)
IS 448 IS/IT Project Management (3)
IS 465 Mgmt Support Systems (3)
IS 495 Senior Seminar (1)
IU 309 Prof Writing for Science/Technology (3)
IU 315 Ethics in the Cyber World (3)
MA 139 Applied Calculus (3)
MA 223 Probability & Statistics (3)
UI 450 Capstone Experience (3)

Choose One Track:
Track 1 – Business Administration

Required Minor:
Business Administration Minor

Required Courses:
AC 330 Accounting Analytics (3)

IS 440 Web Design for Elec Commerce (3)
IS 575 IS/IT Strategy & Mgmt (3)
MK 555 Internet Marketing (3)

Track 2 – Commerce

Required minor - Choose one from list:
Accounting minor
Economics minor
International Business minor
Management minor
Marketing: Integrated Marketing Communications minor
Marketing: Marketing Management minor
Marketing: Retail Management minor
Marketing: Sales Management minor

Required courses:
IS 440 Web Design for Elec Commerce (3)
IS 575 IS/IT Strategy & Mgmt (3)

Additional requirements – Choose 6 to 9 hours, depending on minor chosen:
AC 222 Prin of Managerial Acctg (3)
AC 375 Financial Statement Analysis (3)
EC 225 Prin of Macroeconomics (3)
FI 361 Financial Management (3)
IM 411 Total Quality Assurance (3)
MG 301 Mgmt/Organizational Behavior (3)
MK 301 Principles of Marketing (3)

Track 3 – Game Programming

Required courses:
AR 104 Design Foundations (3)
AR 323 Art & New Technology (3)
CS 155 Computer Science I (4)
CS 265 Computer Science II (4)
CS 300 Computer Science III (4)
CS 315 C & the Unix Environment (3)
CS 373 Intro to Game Programming (3)
CS 375 Computer Graphics (3)
CS 473 3D Game Programming (3)
MA 345 Linear Algebra (3)

Track 4 – Information Assurance

Required Minor:
Cybersecurity minor

Additional requirements - Choose 6 hours:
CS 315 C and the Unix Environment (3)
CY 410 Web Applications Security (3)
CY 420 Computer Forensics (3)
EP305 Digital System Design (3)
ET 245 Logic Circuits (3)
ET 366 Microcontrollers (3)
TN 375 Network Rout Protocols/Concepts (3)
TN 435 Network Security (3)

Track 5 – Multimedia programming

Required courses:
CS 155 Computer Science I (4)
### Computer Science

**82 Hour Major - No Minor Required**

**Required Courses:**
- CS 003  Computer Science Assessment (0)
- CS 155  Computer Science I (4)
- CS 245  Discrete Structures I (3)
- CS 265  Computer Science II (4)
- CS 280  Computer Systems (3)
- CS 300  Computer Science III (4)
- CS 315  C & the Unix Environment (3)
- CS 2xx
- CS 3xx
- CS 4xx

**Track 8 - Web Page Design & Multimedia Computing**

**Required courses:**
- AR 104  Design Foundations (3)
- GM 180  Intro to Technical Graphics (3)
- IS 440  Web Design for Elec Commerce (3)
- MC 221  Media Elements (3)
- PG 284  Photography Fundamentals (3)

**Additional requirements - Choose 15 hours:**
- AR 323  Art & New Technology (3)
- GM 200  Vector & Bitmapped Graphics (3)
- GM 282  Vector Graphics (3)
- GM 380  3D Modeling/Animation Production (3)
- GM 386  Interactive Multimedia/Animation (3)
- GM 480  3D Animation Pipeline (3)
- MC 310  Advertising Analysis & Strategy (3)
- MC 312  Advertising Creative Concepts (3)
- MC 318  Advertising Digital Applications (3)

**Track 9 – Web Programming**

**Required courses:**
- CS 155  Computer Science I (4)
- CS 265  Computer Science II (4)
- CS 300  Computer Science III (4)
- AR 323  Art & New Technology (3)
- CS 331  Application Programming (3)
- CS 403  Information Retrieval (3)
- CS 440  Database (3)
- GM 180  Intro to Technical Graphics (3)
- IS 440  Web Design for Elec Commerce (3)
CORPORATE COMMUNICATION

48 Hour Major – Minor Required

Required Courses:
- SC 001 Exit Interview (0)
- MG 301 Principles of Management (3)
- MK 301 Principles of Marketing (3)
- MK 341 Public Relations (3)
- SC 105 Fund of Oral Comm (3)

OR
- SC 155 Fund of Interpersonal Comm (3)
- SC 330 Corporate & Professional Comm (3)
- SC 335 Interviewing (3)
- SC 483 Internship in Speech Comm (3)

OR
- SC 496 Practicum in Corporate Comm (3)
- SC 560 Organizational Comm (3)
- UI 301 Managerial Communication (3)

Choose 9 hours from:
- SC 215 Intercultural Communication (3)
- SC 301 Found of Health Comm (3)
- SC 310 Speech Writing (3)
- SC 314 Argumentation & Problem Solving (3)
- SC 320 Group Comm & Decision-Making (3)
- SC 355 Relational Comm Strategies (3)
- SC 406 Negotiation & Conflict Mgmt (3)
- SC 463 Independent Study (3)
- SC 510 Leadership and Team Building (3)
- UI 345 Nonverbal Communication (3)
- UI 425 Persuasion (3)

Choose 6 hours from the following:
- MK 342 Professional Selling (3)
- MK 343 Advertising & Promotion (3)
- MK 344 Consumer Behavior (3)
- MK 345 Intro to Business Research (3)
- MK 349 Retail Management (3)
- MK 447 Sales Management (3)
- MK 560 International Marketing (3)

Choose 6 hours from the following:
- MG 362 Management Skills (3)
- MG 470 Leadership in Management (3)
- MG 550 Improving Team Performance (3)
- MG 560 International Management (3)

CRIMINAL JUSTICE

45-54 Hour Major – Minor required unless noted

Required Courses:
- CJ 100 Intro to Criminal Justice (3)
- CJ 110 Intro to Law Enforcement (3)
- CJ 125 Intro to Corrections (3)
- CJ 220 Criminal Law (3)
- CJ 370 Juvenile Justice (3)
- CJ 400 Crisis Mgmt & Conflict Resol (3)
- CJ 425 Planning/Resrch in Crim Justice (3)
- CJ 499 Issues in Justice Admin (3)
- SO 242 Statistics for Soc Scientists (3)
- SO 305 Race, Gender, Class & Crime (3)

Choose One 15-24 Hour Option:

CORRECTIONS
- CJ 230 Correctional Institutions (3)
- CJ 355 Constitutional Rights of Inmates (3)
- CJ 365 Community-Based Corrections (3)
- CJ 440 Theories/Methods of Offender Rehab (3)
- CJ xxx CJ Course (300-500 level) (3)

CRIMINOLOGY
- CJ 375 Criminal Typology/Victimology (3)
- SO 300 Organized/White-Collar Crime (3)
- SO 360 Criminology (3)
- SO 444 Deviant Social Behavior (3)
- SO/CJ xxx SO or CJ course (300-500 level) (3)

LAW ENFORCEMENT – choose one track:

Theoretical Track
- CJ 310 Advanced Police Administration (3)
- CJ 330 Criminal Investigations (3)
- CJ 422 Criminal Procedure (3)
- CJ 430 Policing/Information Age (3)

OR
- PO 500 Policing/Information Age (3)
- CJ xxx CJ Course (300-500 level) (3)

Practical Track – No minor required
- LE 199 Basic LEA I (6)
- LE 299 Basic LEA II (6)
- LE 399 Basic LEA III (6)
- LE 499 Basic LEA IV (6)

*Minor required on all options/tracks except Practical Track under Law Enforcement

CYBERSECURITY

88 Hour Major – No Minor Required

CS 155 Computer Science I (4)
CS 265 Computer Science II (4)
CS 315 C & the UNIX Environ (3)
CY 201 Introduction to Cybersecurity (3)
CY 310 Info Security & Assurance (3)
CY 320 Info Security in System Admin (3)
CY 410 Web Application Security (3)
CY 420 Computer Forensics (3)
ET 245 Logic Circuits (3)
ET 366 Microcontrollers (3)
IM 102 Technical Communications (3)
IS 245 Web Development & Security (3)
IS 375 Database & Info Systems (3)
Bachelor of Science Majors
Southeast Missouri State University 2015-16

MA 133 Plane Trigonometry (3)
MA 134 College Algebra (3)
MA 223 Elementary Probability & Statistics (3)
MA 464 Mathematical Cryptography (3)
MN 220 Eng Economic Analysis (3)
PH 120 Introductory Physics I (5)
SW 207 Understanding Cult & Soc Diversity (3)
TN 254 Network Communications (3)
TN 255 Microcomputer Maintenance (3)
TN 275 Intro to Networks (3)
TN 375 Routing/Switching Essentials (3)
TN 395 Server Maintenance and Troubleshooting (3)
TN 425 Wireless Comm & Mobile Data Networks (3)
TN 435 Network Security (3)
UI 410 Manf Research in a Global Society (3)

ECONOMICS

28 Hour Major - Minor Required

Required Courses:
EC 215 Principles of Microeconomics (3)
EC 225 Principles of Macroeconomics (3)
EC 410 Macroeconomic Theory (3)
EC 420 Microeconomic Theory (3)
EC 498 Senior Seminar (1)

Any 3 hour college-level statistics course

Choose 12 Hours From:
EC xxx EC course (235-500 level)
UI 322 International Political Economy (3)
UI 349 Comparative Economic Systems (3)
UI 366 Law and Economics (3)
UI 371 Government and Business (3)

NOTE: No more than 6 hours of UI courses may be selected.

EMERGENCY PREPAREDNESS

69 Hour Major – No Minor Required

Required Courses:
BI 471 Internship (1)
CH 185 General Chemistry I (5)
CH 234 Organic & Biological Chemistry (3)
EA 507 School & Campus Safety (3)
EV 425 GIS Planning for Emerg Mgmt (3)
EV 447 Fund of Disaster/Emerg Mgmt & Planning (3)
EV 448 Disaster/Emerg Planning & Response (3)
EV 449 Vulnerability, Risk Reduct/Crit Incdnt Mgmt (3)
EV 551 Hazardous Materials Assessment (3)
EV 454 Risk Assessment Applications (3)
EV 456 Fund Risk Comm in Emerg Mgmt (3)
GO 445 Geographic Information Systems (3)
HL 320 Community Health (3)

Additional requirements:
Any 3 hour college-level statistics course

Choose 12 Hours From:
EC xxx EC course (235-500 level)
UI 322 International Political Economy (3)
UI 349 Comparative Economic Systems (3)
UI 366 Law and Economics (3)
UI 371 Government and Business (3)

NOTE: No more than 6 hours of UI courses may be selected.

ENGINEERING PHYSICS

Accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org

60-62 Hour Major - No Minor Required

Required Courses:
EP 100 Physics & Engineering Concepts (1)
EP 240 Circuit Analysis (4)
EP 261 Engineering Mech: Statics (3)
EP 262 Engineering Mech: Dynamics (3)
EP 340 Electronic Circuits (4)
EP 372 Signals and Systems (3)
EP 380 Engineering Design & Research (1)
EP 480 Capstone Design I (1)
PH 230/030 General Physics I (5)
PH 231/031 General Physics II (5)
PH 360 Modern Physics (3)
PH 371 Electromagnetics (3)
UI 330 Experimental Methods I (3)
UI 450 Capstone Experience (3)

Additional Requirements: 30 Hours
CH 185/085/005 General Chemistry (5)
CS 177 Prog for Scientists & Engr (3)
MA 140 Analytic Geometry & Calculus I (5)
MA 145 Analytic Geometry & Calculus II (4)
MA 244 Analytic Geometry & Calculus III (4)
MA 345 Linear Algebra (3)
MA 350 Differential Equations (3)
MN 120 Fund of Engr Design Processes (3)
Choose One Option:

**COMPUTER APPLICATIONS (20 HOURS)**
- CS 155 Computer Science I (4)
- CS 265 Computer Science II (4)
- CS 315 C & the Unix Environment (3)
- EP 305 Digital & Analog System Design (3)
- EP 310 Microcomputer Interfacing (3)
- EP 461 Computer Applications (3)

**ELECTRICAL APPLICATIONS (18 HOURS)**
- EP 305 Digital & Analog System Design (3)
- EP 310 Microcomputer Interfacing (3)
- EP 361 Thermal Analysis (3)
- EP 374 Control Systems (3)
- EP 462 Material Science (3)
- PH 341 Optics (3)

**MECHANICAL APPLICATIONS (19 HOURS)**
- EP 361 Thermal Analysis (3)
- EP 363 Thermal Fluid Engr (3)
- EP 374 Control Systems (3)
- EP 462 Material Science (3)
- MN 350 Machine Design (3)

**ENGINEERING TECHNOLOGY**

**100 Hour Major - No Minor Required**
- CH 181 Basic Principles of Chemistry (5)
- ET 304 Intro to PLCs (3)
- IM 102 Technical Communications (3)
- IM 301 Industrial Safety Supervision (3)
- IM 311 Statistical Process Control (3)
- MA 137 Precalculus (5)
- MA 140 Analytic Geometry & Calculus I (5)
- MA 144 Integral Calculus & Differential Equations (5)
- MN 220 Engineering Economic Analysis (3)
- MN 260 Techncl Computer Programing Appl (3)
- MN 356 Robotic Fundamentals (3)
- MN 383 Fluid Power (3)
- MN 412 Advanced Manufacturing Systems (3)
- MN 416 Manufacturing Seminar (1)
- PH 120 Introductory Physics I (5)
- PH 121 Introductory Physics II (5)
- SW 207 Understanding Cult & Social Div (3)
- UI 319 Science, Tech, & Society (3)
- UI 410 Manufacturing Research (3)

Choose One 33 Hour Option:

**ELECTRICAL AND CONTROL:**
- ET 160 Basic Electricity/Electronics (3)
- ET 164 AC Principles & Circuits (3)
- ET 245 Logic Circuits (3)
- ET 260 Electronic Circ Design/Analysis I (3)
- ET 365 Industrial Electrical Power (3)
- ET 366 Microcontrollers (3)
- ET 367 Motor Control and Drive Systems (3)
- ET 374 Industrial Electronics (3)
- ET 468 Industrial Control (3)
- ET 470 Energy Management (3)
- TN 255 Microcomputer Maint (3)

**MECHANICAL & MANUFACTURING SYSTEMS:**
- ET 160 Basic Electricity & Electronics (3)
- MN 120 Fund of Engr Design Processes (3)
- MN 170 Industrial Materials & Testing (3)
- MN 203 Industrial Materials & Processes I (3)
- MN 219 Statics & Strength of Materials (3)
- MN 221 Solid Modeling & Rapid Prototyping (3)
- MN 304 Industrial Materials & Processes II (3)
- MN 324 Mechanical Design Processes (3)
- MN 350 Machine Design (3)
- MN 354 Computer Aided Manufacturing (CAM) (3)
- MN 402 Plastics & Processes (3)

**ENVIRONMENTAL SCIENCE**

**79-93 Hour Major - No Minor Required**

Required Courses:
- BI 153 Intro to Organismal Bio (4)
- BI 332 General Ecology (3)
- BS 105 Environmental Biology (3)
- CH 185 General Chemistry (5)
- CH 186 Found of Inorganic Chem (3)
- EC 344 Environmental Economics (3)
- EV 201 Environmental Science Seminar I (1)
- EV 401 Environmental Science Seminar II (1)
- EV 454 Risk Assessment Applications (3)
- EV 481-483 Internship (3)

OR

- EV 491-493 Research (3)
- EV xxx EV Course (300-500 level) (3)
- GO 110 Physical Geology (3)
- GO 365 Environmental Soil Science (3)
- GO 460 Environmental Hydrology (3)
- MA 139 Applied Calculus (3)

OR

- MA 140 Analytical Geometry & Calculus I (5)
- MA 223 Elementary Probability & Statistics (3)
- PH 106 Physical Concepts (3)

OR

- PH 120 Introductory Physics I (5)
- UI 429 Environmental Ethics (3)

Choose 6 Hours From:
- UI 331 Found of Biochemistry (3)
- UI 360 Recycling & Waste Management (3)
- UI 373 Earth/Life Through Time (3)
- UI 386 Environmental Health (3)*
UI 387 Environmental Law & Public Policy (3)**
*Required for Environmental Health and Policy Option
**Required for Policy & Communication Option

Choose One Option:

BIOLOGY (28-29 Hours)
BI 151 Biological Reasoning (3)

Choose 2 Courses From:
BI 200 Microbiology (3)
BO 200 Plant Biology (4)
ZO 200 Animal Biology (3)

Additional Required Courses:
CH 187 Inorg Chem & Qual Analysis (2)
CH 341 Found of Organic Chem (4)
CH 342 Organic Chemistry Lab I (1)
CH 450 Environmental Chemistry (3)

Choose 9 Hours From:
BI 381 Molecular Genetics (3)
BI 420 Principles of Wildlife Management (3)
BI 430 Management of Wildlife Habitat (3)
BI 432 Advanced Ecology (3)
BI 435 Conservation Biology (3)
BI 440 Ecology & Management of Wetlands (3)
BI 441 Virology (3)
BI 442 Immunology (3)
BI 443 Epidemiology (3)
BI 445 Microbial Physiology (3)
BI 452 Freshwater Ecology (3)
BI 453 Occupational Health (3)
BI 455 Industrial Hygiene (3)
BI 460 Introduction to Toxicology (3)
BI 469 Wildlife Toxicology (3)
BI 471-473 Internship in Biology (1-3)
BI 543 Pathogenic Microbiology (2)
BI 544 Pathogenic Microbiology Laboratory (1)
BI 589-591 Biological Research (1-3)
BO 361 Systematic Botany (3)
BO 445 Plant Physiology (3)
BO 461 Native Aquatic Plants (3)
BO 469 Field Botany (3)
ZO 331 Animal Physiology (3)
ZO 459 Mammalogy (3)
ZO 460 Herpetology (3)
ZO 466 Ornithology (3)
ZO 469 Vertebrate Adaptations (3)
ZO 478 Ichthyology (3)

BUSINESS (21 Hours)
AC 221 Principles of Accounting I (3)
AC 222 Principles of Accounting II (3)
EC 225 Principles of Macroeconomics (3)
FI 361 Financial Management (3)
MG 301 Principles of Management (3)

MI 375 Management Information Systems (3)
MK 301 Principles of Marketing (3)

CHEMISTRY (28 Hours)
CH 187 Inorg Chem & Qual Analysis (2)
CH 271 Found of Analy Chem (5)
CH 311 Found of Phys Chem (4)
CH 341 Found of Organic Chem (4)
CH 342 Organic Chemistry Lab I (1)
CH 450 Environmental Chemistry (3)

Choose 1 Course From:
CH 313 Phys Chem Lab (3)
CH 343 Advanced Organic Chemistry (3)
CH 344 Organic Chemistry Lab II (2)
CH 391-393 Undergraduate Research (1-3)
CH 447 Adv NMR Techniques (3)
CH 545 Organic Preparations & Characterizations (3)
CH 575 Chemical Instrumentation (4)
CH 531/UI 331 Found of Biochemistry (3)

ENVIRONMENTAL HEALTH (22-25 Hours)
EV 443 Epidemiology (3)
EV 453 Occupational Health (3)
EV 455 Industrial Hygiene (3)
EV 460 Introduction to Toxicology (3)
EV 551 Hazardous Materials Assessment (3)

NOTE: One of the EV courses above will satisfy the 3 hours of elective credit in the Environmental Science core course requirements.

Choose 1 Course From:
BI 485 Topics in Biology (3)
BI 543 & 544 Pathogenic Microbiology & Lab (3)
HL 210 Health & Safety (2)
HL 320 Community Health (3)
IU 309 Writing for Science & Technology (3)

Additional Required Courses:
CH 187 Inorg Chem & Qual Analys Lab (2)
CH 234 Organic & Biol Chemistry (3)

OR
CH 341/342 Found of Organic Chem and Lab (5)
CH 450 Environmental Chemistry (3)

GEOPROCESSING AND SOILS (25 Hours)
AG 440 Precision Agriculture (3)
GO 445 Remote Sensing (3)

OR
AG 551 Water Management (3)
GO 445 Geographic Information Systems (3)
GO 555 Soil Class & Res Mgmt (3)

Choose 3 Hours From:
AO 427 Soil Fertility & Plant Nutr (3)
BI 440 Ecology & Mgmt of Wetlands (3)
Additional Required Courses:
CH 187  Inorg Chem & Qual Analys Lab (2)
CH 341  Found of Organic Chem (4)
CH 342  Organic Chemistry Lab I (1)
CH 450  Environmental Chemistry (3)
POLICY AND COMMUNICATION (18 Hours)
MC 201  Writing for Mass Media (3)
PS 230  American Public Policy (3)
OR
PS 280  Intro to Global Issues (3)
PS 491  Topics in Political Science (3)
SC 200  Advanced Public Speaking (3)

HEALTH COMMUNICATION
36 hours required – Minor Required
HA 300  Management of Healthcare (3)
HA 585  Healthcare Marketing (3)
HL 113  Medical Terminology (3)
HL 320  Community Health (3)
HL 4xx  General Principles of Health Promotion (3)
PY 555  Health Psychology (3)
SC 001  Exit Interview (0)
SC 215  Intercultural Communication (3)
SC 301  Foundations of Health Communication (3)
SC 335  Interviewing: Principles and Practices (3)
SC 320  Group Communication and Decision Making
OR
SC 510  Leadership and Team Building (3)
SC 483  Internship in Communication Studies (3)
SC 560  Organizational Communication (3)
OR
UI 425  Persuasion (3)

Required Support Courses:
Some courses may also fulfill University Studies requirements.
CF 124  Children's Health, Nutrition and Safety (3)
OR
FN 235  Nutrition for Health (3)
EN 140  Rhetoric & Written Comm (3)
HL 120  Health Perspectives (3)
MC 101  Mass Communication and Society (3)
SC 105  Fundamentals of Oral Communication (3)
OR
SC 155  Interpersonal Communication (3)
UI 345  Nonverbal Communication (3)
UI 352  Medical Ethics (3)
UI 412  American Healthcare Systems and Issues (3)

HEALTH MANAGEMENT
*A grade of ‘C’ or higher is required in all courses in the
core, option and all additional requirements
62-73 Hour Major - No Minor Required
FN 235  Nutrition for Health (3)
HL 111  Intro to Health Management (3)
HL 120  Health Perspectives (3)
HL 231  Fitness Conditioning (3)
HL 312  Sport and Exercise Pharmacology (3)
HL 331/031 Exercise Physiology (4)
HL 431  Fitness Assmnt & Exercise Prog (4)
HL 460  Exercise Leadership (3)
HL 498  Health Internship (12)

Choose One Option:
EXERCISE SCIENCE (24 Hours)
HL 251  Intro to Athletic Injuries (3)
HL 261  Exercise Science Practicum (3)
HL 303  Research Methods (3)
HL 332  Lifestyle Disease Risk Reduction (3)
HL 471  Fitness Facility Admin (3)
PE 464  Kinesiology (3)

Electives - 6 Hours:
FN 200-500 approved by advisor (3)
HL 300-500 approved by advisor (3)

HEALTH PROMOTION (27 Hours)
FN 255  Nutrition I (3)
OR
FN 355  Lifespan Nutrition (3)
HL 260  Health Promotion Practicum (3)
HL 303  Research Methods (3)
HL 332  Lifestyle Disease Risk Reduction (3)
HL 432  Health Promotion Programs (3)
HL 490  Program Planning & Evaluating (3)
MG 301  Principles of Management (3)
OR
MK 301  Principles of Marketing (3)
MG 3xxx  Upper division MG elective (3)
OR
MK 343  Advertising & Promotion (3)
UI 354  Lifestyle Enhancement (3)

Additional Requirements: 14-20 Hours
BS 113/013  Anatomy & Physiology I (4)
BS 114/014  Anatomy & Physiology II (4)
CH 180  Chemistry in Our World (3)
OR
CH 181  Basic Principles of Chemistry (5)
MA 134  College Algebra (3)
HEALTH SCIENCES

97 Hours Required – No Minor Required

Student must attain a grade of ‘C’ or higher in every major course. A student must maintain an overall grade point average of 3.0 to remain in major.

Core Courses

BI 151 Biological Reasoning (3)
OR
FN 235 Nutrition for Health (3)
BI 153 Introduction to Organismal Biology (4)
BI 154 Genetics and Cellular Biology (4)
BS 113 Anatomy and Physiology I (4)
BS 114 Anatomy and Physiology II (4)
CH 185 General Chemistry I (5)
CH 186 Foundations of Inorganic Chemistry (3)
CH 187 Inorganic Chemistry and Qualitative Analysis Lab (2)
FN 530 Pathophysiology: Implications for Nutrition and Exercise Science (3)
HL 105 Introduction to Allied Health Professions (3)
HL 113 Medical Terminology (3)
MA 134 College Algebra (3)
PH 120 Introductory Physics I w/Lab (5)
PH 121 Introductory Physics II w/Lab (5)
PY 101 Psychological Perspectives on Human Behavior (3)
PY 220 Psychological Development Across the Life Span (3)
PY 271 Research Design and Analysis I
OR
SW 242 Statistics for Social Scientists (3)
PY 440 Abnormal Psychology
OR
PY 466 Introduction to Physiological Psychology (3)
SC 155 Interpersonal Communication (3)

GENERAL HEALTH SCIENCES OPTION

BI 200 General Microbiology (3)
BI 472 Internship in Biology (2)
CH 341 Foundations of Organic Chemistry (4)
CH 342 Organic Chemistry Lab I (1)

Physical Rehabilitation electives – choose 9 hours

FN 255 Nutrition I (3)
FN 550 Pathophysiology (3)
HL 251 Introduction to Athletic Injuries (3)
HL 265 Therapeutic Modalities (3)
HL 321 Advanced Injury Assessment I (3)
HL 322 Advanced Injury Assessment II (3)
HL 323 Advanced Injury Assessment III (3)
HL 331 Exercise Physiology w/Lab (4)
HL 444 Rehabilitation of Sports Injury (3)

HEALTHCARE MANAGEMENT

50 Hour Major – No Minor Required

Required Courses:

EC 585 Healthcare Economics (3)
HA 300 Intro to Healthcare Mgmt (3)
OR
MG 301 Principles of Management (3)
HA 473 Internship in Healthcare (3)
HA 510 Healthcare Operations (3)
HL 113 Medical Terminology (3)
HL 320 Community Health (3)
MG 252 Business Communication (2)
MG 356 Found of Hum Resource Mgmt (3)
MG 362 Management Skills (3)
PY 101 Psych Perspectives on Hum Behr (3)
PY 271 Research Design & Analysis I (3)
PY 555 Health Psychology (3)
SC 301 Foundations of Health Communication (3)

Choose one Option:

INFORMATICS (12 hours)

CY 501 Intro to Cybersecurity (3)
OR
MG 575 Info Technology Mgmt (3)
HA 540 Healthcare Informatics (3)
HA 545 Healthcare Database Systems (3)
MI 375 Management Info Systems (3)

QUALITY & PATIENT SAFETY (12 hours)

HA 520 Intro to Healthcare Quality (3)
HA 525 Advanced Healthcare Quality (3)
HA 530 Intro to Patient Safety (3)
HA 535 Advanced Patient Safety (3)

Additional Requirements: 18 Hours

BS 103 Human Biology (3)*
### HISTORIC PRESERVATION

**66 Hour Major – No Minor Required**

**HISTORIC PRESERVATION REQUIREMENTS**

**Required Historic Preservation Core:**
- HP 007 Professional Portfolio Review (0)
- HP 100 Intro to Historic Preservation (3)
- HP 200 Intro to Techniques of Local History (3)
- HP 450 Problems in Historic Preservation (3)
- HP 585 History of American Architecture (3)
- HP 588 Legal & Econ Prin of Historic Preserv (3)

**Required History Core:**
- GH 315 Historiography (3)
- US 105 American History I (3)
- US 107 American History II (3)

**Public History Breadth Requirements - choose 6 hours:**
- HP 405 Archives & Spec Collections Management (3)
- HP 410 Museum Studies (3)
- HP 420 Historic Site Administration (3)

**History Breadth Electives - choose 6 hours:**
- Any EH, GH, US, or WH 200-500 level or approved departmental UI course

**History Breadth Senior Division Electives - choose 3 hours:**
- Any EH, GH, US, or WH 400-500 level or approved departmental UI course

**Historic Preservation Elective – choose 6 hours:**
- AN 382 Archaeology: Method & Theory (3)
- HP 552 Historic Preservation Field School (3)
- HP 580 Hist of Am Bldg Mats and Tech (3)
- HP 589 Hist Pres-Based Econ Revital (3)

**Any HP topics course or an additional HP Breadth Requirement.**

**INTERNSHIP REQUIREMENT (Choose 9 Hours):**
- HP 500 Historic Preservation Internship I (3)
- HP 501 Historic Preservation Internship II (6)
- HP 502 Historic Preservation Internship III (9)

**ADDITIONAL INTERDISCIPLINARY REQUIREMENTS**

**Choose 6 Hours:**
- AG 440 Precision Agriculture (3)
- CM 100 Introduction to Drafting (3)
- CM 126 Computer Assisted Drafting (3)

### HOSPITALITY MANAGEMENT

**46 Hour Major – No Minor Required**

**Required Courses:**
- FN 235 Nutrition for Health (3)*
- HM 150 Intro to Hospitality Mgmt (3)
- HM 205 Basic Culinary Techniques (3)
- HM 270 Hotel & Resort Operations (3)
- HM 304 Food, Bev & Labor Cost Cntrls (3)
- HM 325 Hospitality Law (3)
- HM 390 Hosp Sales & Marketing (3)
- HM 406 Hospitality & Institution Admin (3)
- HM 416 Quantity Food Production (4)
- HM 473 Internship in Hospitality Mgmt (12)

**Additional Requirements: 24 Hours**

**Or**
- AC 221 Principles of Accounting I (3)
- AD 101 Intro to Microcomputer Appl (3)
- EC 101 Economic Problems & Policies (3)*

**Choose 6 Hours:**
- EC 215 Prin of Microeconomics (3)*
- MA 134 College Algebra (3)*
- MG 301 Principles of Management (3)
- MG 356 Found of Human Resource Mgmt (3)
- MK 301 Principles of Marketing (3)
- SN 100 Spanish Language & Culture (3)*

*Fulfills University Studies requirement
HUMAN ENVIRONMENTAL STUDIES:  
CHILD DEVELOPMENT OPTION

72 Hour Major - No Minor Required

Required Courses:
- CF 102  Relationships in the 21st Century (3)
- CF 120  The Child: Devel/Conception to Adolsc (3)
- CF 124  Hlth/Nutr/Safety Child (3)
- CF 200  Constructive Guidance & Discipline (3)
- CF 209  Intro to Family Systems (3)
- CF 215  Observ: Perception & Process (3)
- CF 233  Creative Thought & Express in Children (3)
- CF 250  Family Child Care: Feasibility & Mgmt (3)
- CF 280  Learning Theory & Appl: Preschool (3)
- CF 285  Learn Theory/App: Infants & Toddlers (3)
- CF 300  Parent Education (3)
- CF 306  History/Theory of Child Devlpmnt (3)
- CF 310  School Age Child Care (3)
- CF 330  Middle Childhood/Youth Issues (3)
- CF 410  Culture & Ethnicity of the Child (3)
- CF 430  Parent Chld Intractns: Systems Appr (3)
- CF 475  Action Research for the Practitioner (3)
- CF 480  Child Development Career Internship (6)
- EX 390  Psych & Educ of the Exceptional Child (3)

Choose One Track:

Administrative Track (12)
- CF 315  Admin of Progr for Children & Youth (3)
- CF 350  Assessing/Teaching Young Children (3)
- CF 415  Legal Risks/Admin:Dec-Making in Prog (3)
- CF 420  Leadership/Advocacy for the Admin (3)

Child & Youth Services Track (12)
- CF 495  Intergancy Collaboration (3)

OR

Choose one advising track:

Didactic Program in Dietetics Track – no minor required
- AC 221  Principles of Accounting I (3)
- BS 240  Microorganisms/Human Host (3)
- CH 181  Basic Prin of Chemistry (5)
- CH 234  Organic & Biol Chemistry (3)
- FN 320  Essentials of Food Science (4)
- FN 370  Nutrition Assessment (2)
- FN 401  Sports Nutrition (3)
- FN 502  Nutrition II (3)
- FN 503  Medical Nutrition Therapy I (4)
- FN 504  Medical Nutrition Therapy II (4)
- FN 505  Senior Dietetic Seminar (1)
- FN 525  Nutrition Counseling (3)
- HE 520  Tech/Teaching Nutrition & Health Ed (3)
- HM 225  Adv Select/Prep of Foods (3)
- HM 304  Food, Beverage & Labor Cost Cntrl (3)
- HM 406  Hospitality & Institution Admn (3)
- HM 416  Quantity Food Production (4)
- MA 134  College Algebra (3)

Nutrition Science Track – no minor required
- BI 151  Biological Reasoning (3)
- BI 153  Intro to Organismal Biology (4)
- BI 154  Genetics/Cellular Biology (4)
- BI 200  General Microbiology (3)
- CH 185  General Chemistry I (5)
- CH 186  Found of Inorganic Chem (3)
- CH 187  norg Chem/Qual Anl Lab (2)
- CH 341  Found of Organic Chem (4)
- CH 342  Organic Chem Lab I (1)
- CH 343  Adv Organic Chem (3)
- CH 344  Organic Chem Lab II (2)
- CH 531  Biochemistry (3)

HUMAN ENVIRONMENTAL STUDIES: DIETETICS OPTION

84 Hour Major – Minor required where noted

Required Courses:
- AD 101  Intro to Microcomputer Appl (3)
- BS 113  Anatomy & Physiology I (4)
- BS 114  Anatomy & Physiology II (4)
- FN 235  Nutrition for Health (3)
- FN 255  Nutrition I (3)
- FN 340  Professional Dietetic Seminar (1)
- FN 355  Lifespan Nutrition (3)
- FN 540  Community Nutrition (3)
- HL 303  Research Methods (3)

OR
- PY 271  Research Design I (3)
- HM 205  Basic Culinary Techniques (3)
- PY 101  Psych Perspectives/Human Behavior (3)

Choose one advising track:

Didactic Program in Dietetics Track – no minor required
- AC 221  Principles of Accounting I (3)
- BS 240  Microorganisms/Human Host (3)
- CH 181  Basic Prin of Chemistry (5)
- CH 234  Organic & Biol Chemistry (3)
- FN 320  Essentials of Food Science (4)
- FN 370  Nutrition Assessment (2)
- FN 401  Sports Nutrition (3)
- FN 502  Nutrition II (3)
- FN 503  Medical Nutrition Therapy I (4)
- FN 504  Medical Nutrition Therapy II (4)
- FN 505  Senior Dietetic Seminar (1)
- FN 525  Nutrition Counseling (3)
- HE 520  Tech/Teaching Nutrition & Health Ed (3)
- HM 225  Adv Select/Prep of Foods (3)
- HM 304  Food, Beverage & Labor Cost Cntrl (3)
- HM 406  Hospitality & Institution Admn (3)
- HM 416  Quantity Food Production (4)
- MA 134  College Algebra (3)

Nutrition Science Track – no minor required
- BI 151  Biological Reasoning (3)
- BI 153  Intro to Organismal Biology (4)
- BI 154  Genetics/Cellular Biology (4)
- BI 200  General Microbiology (3)
- CH 185  General Chemistry I (5)
- CH 186  Found of Inorganic Chem (3)
- CH 187  norg Chem/Qual Anl Lab (2)
- CH 341  Found of Organic Chem (4)
- CH 342  Organic Chem Lab I (1)
- CH 343  Adv Organic Chem (3)
- CH 344  Organic Chem Lab II (2)
- CH 531  Biochemistry (3)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>FN 320</td>
<td>Essentials of Food Science (4)</td>
</tr>
<tr>
<td>FN 502</td>
<td>Nutrition II (3)</td>
</tr>
<tr>
<td>MA 134</td>
<td>College Algebra (3)</td>
</tr>
<tr>
<td>PH 120</td>
<td>Introductory Physics I (5)</td>
</tr>
<tr>
<td>PH 121</td>
<td>Introductory Physics II (5)</td>
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</tbody>
</table>

**Nutrition and Wellness Track – minor required**

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<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>FN 370</td>
<td>Nutrition Assessment (2)</td>
</tr>
<tr>
<td>FN 503</td>
<td>Medical Nutrition Therapy I (4)</td>
</tr>
<tr>
<td>FN 520</td>
<td>Nutrition &amp; Aging (3)</td>
</tr>
<tr>
<td>HE 520</td>
<td>Tech/Teaching Nutrition &amp; Health Ed (3)</td>
</tr>
<tr>
<td>HL 111</td>
<td>Intro to Health Management (3)</td>
</tr>
<tr>
<td>HL 120</td>
<td>Health Perspectives (3)</td>
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<tr>
<td>HL 260</td>
<td>Health Promotion Practicum (3)</td>
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<tr>
<td>HL 320</td>
<td>Community Health (3)</td>
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<tr>
<td>HL 332</td>
<td>Lifestyle Disease Risk Reduction (3)</td>
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<tr>
<td>HL 432</td>
<td>Health Promotion Programs (3)</td>
</tr>
<tr>
<td>HL 490</td>
<td>Program Planning/Evaluation (3)</td>
</tr>
<tr>
<td>MA 123</td>
<td>Survey of Mathematics (3)</td>
</tr>
</tbody>
</table>

**HUMAN ENVIRONMENTAL STUDIES: FAMILY STUDIES OPTION**

**45 Hour Major - Minor Required**

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>CF 102</td>
<td>Relationships in the 21st Century (3)</td>
</tr>
<tr>
<td>CF 120</td>
<td>The Child: Devel/Conception to Adolsc (3)</td>
</tr>
<tr>
<td>CF 206</td>
<td>Intro to Gerontology (3)</td>
</tr>
<tr>
<td>CF 207</td>
<td>Gerontology Practicum I (3)</td>
</tr>
<tr>
<td>CF 209</td>
<td>Intro to Family Systems (3)</td>
</tr>
<tr>
<td>CF 220</td>
<td>Young &amp; Middle Adulthood (3)</td>
</tr>
<tr>
<td>CF 300</td>
<td>Parent Education (3)</td>
</tr>
<tr>
<td>CF 320</td>
<td>Life Skills Education (3)</td>
</tr>
<tr>
<td>CF 340</td>
<td>Family Policy Law &amp; Advocacy (3)</td>
</tr>
<tr>
<td>CF 402</td>
<td>Relationships of Commitment (3)</td>
</tr>
<tr>
<td>CF 405</td>
<td>Special Population Practicum (3)</td>
</tr>
<tr>
<td>CF 430</td>
<td>Parent-Child Interaction (3)</td>
</tr>
<tr>
<td>CF 512</td>
<td>Family &amp; Comm Resources (3)</td>
</tr>
<tr>
<td>CF 520</td>
<td>Family Assessment (3)</td>
</tr>
<tr>
<td>CF 565</td>
<td>Family Service Internship (6)</td>
</tr>
</tbody>
</table>

**Additional Requirements: 6 hours**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FE 200</td>
<td>Family Resource Management (3)</td>
</tr>
<tr>
<td>SW 121</td>
<td>Helping Skills in Human Services (3)</td>
</tr>
</tbody>
</table>

**HUMAN ENVIRONMENTAL STUDIES: FASHION MERCHANDISING OPTION**

**51 Hour Major – Fashion Entrepreneurship Minor Required**

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>FA 1xx</td>
<td>Beyond Project Runway (3)</td>
</tr>
<tr>
<td>FA 110</td>
<td>Intro to Fashion Merchandising (3)</td>
</tr>
<tr>
<td>FA 114</td>
<td>Visual Merchandising (3)</td>
</tr>
<tr>
<td>FA 120</td>
<td>Clothing Construction (3)</td>
</tr>
<tr>
<td>FA 207</td>
<td>Textiles (3)</td>
</tr>
<tr>
<td>FA 250</td>
<td>History of Costume I (3)</td>
</tr>
<tr>
<td>FA 251</td>
<td>History of Costume II (3)</td>
</tr>
<tr>
<td>FA 300</td>
<td>Professional Image &amp; Behavior (3)</td>
</tr>
<tr>
<td>FA 310</td>
<td>Fashion Forecasting (3)</td>
</tr>
<tr>
<td>FA 315</td>
<td>Retail Buying (3)</td>
</tr>
<tr>
<td>FA 350</td>
<td>Apparel Aesthetics (3)</td>
</tr>
<tr>
<td>FA 421</td>
<td>Retail Strategy (3)</td>
</tr>
<tr>
<td>FA 450</td>
<td>Global Fashion Economics (3)</td>
</tr>
<tr>
<td>FA 530</td>
<td>Internship (6)</td>
</tr>
</tbody>
</table>

**Choose 6 hours:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA 121</td>
<td>Intermediate Clothing Constr (3)</td>
</tr>
<tr>
<td>FA 480</td>
<td>Fashion Merchandising Practicum (3)</td>
</tr>
<tr>
<td>FA 520</td>
<td>Survey of National Markets (3)</td>
</tr>
<tr>
<td>FA 521</td>
<td>Survey of International Markets (3)</td>
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</tbody>
</table>

**Additional requirements – 18 hours:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>EC 101</td>
<td>Economic Problems &amp; Policies (3)</td>
</tr>
<tr>
<td>FA 518</td>
<td>Soc/Psych Aspects of Clothing (3)</td>
</tr>
<tr>
<td>GM 180</td>
<td>Intro to Graphic Tech (3)</td>
</tr>
<tr>
<td>MG 301</td>
<td>Principles of Management (3)</td>
</tr>
<tr>
<td>MG 356</td>
<td>Found of Human Resources Management (3)</td>
</tr>
<tr>
<td>UI 355</td>
<td>Consumer &amp; the Market (3)</td>
</tr>
</tbody>
</table>

**HUMAN ENVIRONMENTAL STUDIES: INTERIOR DESIGN OPTION**

**64 Hour Major - No Minor Required**

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 001</td>
<td>Portfolio Review (0)</td>
</tr>
<tr>
<td>DS 104</td>
<td>Exploring Interior Design (3)</td>
</tr>
<tr>
<td>DS 111</td>
<td>Tech Drafting for Designers (3)</td>
</tr>
<tr>
<td>DS 205</td>
<td>History of Interiors I (3)</td>
</tr>
<tr>
<td>DS 206</td>
<td>History of Interiors II (3)</td>
</tr>
<tr>
<td>DS 207</td>
<td>Interior Systems (3)</td>
</tr>
<tr>
<td>DS 209</td>
<td>Constr Codes for Designers (3)</td>
</tr>
<tr>
<td>DS 211</td>
<td>Basic Kitchen/Bath Design (3)</td>
</tr>
<tr>
<td>DS 220</td>
<td>Design Codes for Designers (3)</td>
</tr>
<tr>
<td>DS 313</td>
<td>Sustainable Design (3)</td>
</tr>
<tr>
<td>DS 314</td>
<td>Multicultural Design (3)</td>
</tr>
<tr>
<td>DS 320</td>
<td>Adv Design Communications (3)</td>
</tr>
<tr>
<td>DS 330</td>
<td>Lighting/Electrical Systems (3)</td>
</tr>
<tr>
<td>DS 332</td>
<td>Materials/Cost Estimating (3)</td>
</tr>
<tr>
<td>DS 410</td>
<td>Hospitality Design (3)</td>
</tr>
<tr>
<td>DS 411</td>
<td>Adv Kitchen/Bath Design (3)</td>
</tr>
<tr>
<td>DS 412</td>
<td>Contract Design (3)</td>
</tr>
<tr>
<td>DS 440</td>
<td>Internship in Interior Design (4)</td>
</tr>
<tr>
<td>DS 450</td>
<td>Prof Prac/Interior Design I (3)</td>
</tr>
<tr>
<td>DS 451</td>
<td>Prof Prac/Interior Design II (3)</td>
</tr>
<tr>
<td>FA 207</td>
<td>Textiles I (3)</td>
</tr>
</tbody>
</table>
Choose Three Hours from the Following Courses:
CM 310 Constr Codes & Compliance (3)
FM 544 Sustain Constr Matls & Tech (3)
MG 301 Principles of Management (3)

Additional Requirements: 24 Hours
AH 210 Art History Survey II (3)
CM 126 Computer Aided Arch Drafting (3)
CM 226 Residential Arch Drftg & Design (3)
CM 322 Comm Arch Drftg & Design (3)
MA 123 Survey of Mathematics (3)*
OR
MA 134 College Algebra (3)*
MK 301 Principles of Marketing (3)
UI 340 Housing Perspectives (3)*

*Some courses may fulfill University Studies requirements.

INTERDISCIPLINARY STUDIES
69 Hour Major - No Minor Required
The Interdisciplinary Studies major allows students to create a personalized academic program tailored to their individual career goals by completing courses across multiple academic disciplines. Students work with faculty advisors in their selected areas of emphasis to create a personalized plan of study. The Interdisciplinary Studies plan of study must be approved by faculty advisors in each area, the Dean of the School of University Studies, and the Registrar before completion of 75 hours. A cumulative grade point average of 2.5 is required for graduation. For additional information about the major, students should contact an advisor in the Center for Academic Advising or visit the web page at http://www.semo.edu/coadvise.

Required courses:
University Studies requirements – 51 hours
Two, three or four areas of emphasis – 69 hours*

*Minimum of 12 hours, maximum of 30 hours in each area

MASS COMMUNICATION
36 Hour Major – Minor Required
(A grade of ‘C’ or higher is required in all courses within the major except MC 001, MC 486 & MC 496 which are credit/no credit courses.)

Required Courses:
MC 001 Exit Interview (0)
MC 101 Mass Comm & Society (3)
MC 301 Mass Comm/Theory/Research (3)
MC 304 Diversity in Communication (3)
MC 401 Communication Law (3)
MC xxx Electives (3)

ADDITIONAL REQUIREMENTS:
MA 155 Statistical Reasoning (3)*
UI 382 Hist & Phil of American Mass Media (3)*

*A grade of ‘C’ or higher is required in MA 155 and UI 382.

Choose One 21 Hour Option:
ADVERTISING
MC 211 Advertising & Society (3)
MC 310 Adv Analysis & Strategy (3)
MC 312 Adv Creative Concepts (3)
MC 316 Advertising Media (3)
MC 318 Adv Digital Applications (3)
MC 418 Advertising Campaigns (3)
MC 429 Media Management (3)

MULTIMEDIA JOURNALISM
MC 221 Media Elements (3)
MC 320 Media News (3)
MC 322 Design for Media (3)
MC 323 Sound for Media (3)
MC 327 Visuals for Media (3)
MC 421 Media Storytelling (3)
MC 429 Media Management (3)

PUBLIC RELATIONS
MC 231 Strategic Relations (3)
MC 330 PR Principles (3)
MC 331 Strategic Writing (3)
MC 333 Strategic Production (3)
MC 334 PR Research and Strategy (3)
MC 430 Strategic Communication Issues (3)
MC 434 PR Case Studies & Campaigns (3)

TELEVISION & FILM
MC 251 TV & Film in America (3)
MC 351 Basic TV & Film Production (3)
MC 352 Video Postproduction (3)
MC 354 Screenwriting (3)
MC 366 Television Directing (3)
MC 451 Advanced Film Production (3)
MC 469 Adv Video Production (3)

NOTE: Completion of a minimum of 78 hours outside of the MC prefix.

MATHEMATICS
46-67 Hour Major - No Minor Required

Required Courses:
MA 003 Math Major Field Achvmt Test (0)
MA 138 Discrete Mathematics I (3)
MA 140 Analytic Geometry & Calculus I (5)
MA 145 Analytic Geometry & Calculus II (4)
MA 244 Analytic Geometry & Calculus III (4)
MA 250 Foundations of Math (3)
MA 449 Mathematical Problem Solving (3)
Choose One Option:

**ACTUARIAL SCIENCE**

- AC 221 Principles of Accounting I (3)
- AC 222 Principles of Accounting II (3)
- EC 215 Principles of Microeconomics (3)
- EC 225 Principles of Macroeconomics (3)
- FI 351 Principles of Insurance (3)
- FI 361 Financial Management (3)
- FI 362 Advanced Financial Management (3)
- MA 223 Elem Probability & Statistics (3)
- MA 345 Linear Algebra (3)
- MA 425 Applied Regression Analysis (3)
- MA 523 Probability & Statistics I (3)
- MA 524 Probability & Statistics II (3)
- MA 525 Actuarial Modeling (3)
- MA 526 Actuaries Seminar I (1)
- MA 527 Actuaries Seminar II (1)
- MA 528 Actuaries Seminar III (1)
- MA 546 Advanced Calculus I (3)
- MA 547 Advanced Calculus II (3)
- MA 550 Differential Equations II (3)
- MA 580 Exp Design & Analysis of Variance (3)
- PH 341 Optics (3)
- PH 370 Mechanics (3)
- PH 371 Electromagnetics (3)
- PH 570 Mathematical Physics (3)

**Choose 3 Hours From:**

- MA 524 Probability & Statistics II (3)
- MA 532 Foundations of Geometry (3)
- MA 545 Linear Algebra & Matrices (3)
- MA 547 Advanced Calculus II (3)
- MA 548 Enumerative Combinatorics (3)
- MA 549 Graph Theory (3)
- MA 550 Differential Equations II (3)

**PURE MATHEMATICS**

- MA 345 Linear Algebra (3)
- MA 445 Modern Algebra (3)
- MA 523 Probability & Statistics I (3)
- MA 546 Advanced Calculus I (3)

**Choose 12 Hours MA courses higher than MA 250. One course must be chosen from MA 524, MA 532, MA 540, MA 545, MA 547, MA 548, MA 549, MA 550**

**MEDICAL LABORATORY SCIENCE**

**74-78 Hour Major - No Minor Required**

**Required Courses:**

- BI 200 General Microbiology (3)
- BI 381 Molecular Genetics (3)
- BI 442 Immunology (3)
- BI 543 Pathogenic Microbiology (2)
- BI 544 Pathogenic Microbiology Laboratory (1)
- BS 103 Human Biology (3)

**OR**

- BS 108 Biology for Living (3)

**OR**

- BI 154 Genetics & Cellular Biology (4)
- CH 185 General Chemistry (5)
- CH 186 Found of Inorganic Chem (3)
- CH 187 Inorg Chem & Qual Analysis (2)
- CH 271 Found of Analy Chem (5)
- CH 341 Found of Organic Chem (4)
Bachelor of Science Majors
Southeast Missouri State University 2015-16

CH 342  Organic Chemistry Lab I (1)
MA 134  College Algebra or H.S. equiv (0-3)
MA 223  Elem Probability & Statistics (3)
ZO 331  Animal Physiology (3)
OR
BS 332  Human Physiology (3)
UI 331/CH 531  Found of Biochemistry (3)

Clinical Year Program Off Campus (30 Hours)

PHYSICS
56 Hour Major - No Minor Required

Required Courses:
EP 100  Physics & Engineering Concepts (1)
EP 240  Circuit Analysis (4)
EP 340  Electronic Circuits (4)
EP 361  Thermal Analysis (3)
EP 462  Materials Science (3)
PH 230/030  General Physics I (5)
PH 231/031  General Physics II (5)
PH 341  Optics (3)
PH 345  Experimental Methods I (3)
OR
UI 330  Experimental Methods I (3)
PH 360  Modern Physics (3)
PH 370  Mechanics (3)
PH 371  Electromagnetics (3)
PH 473  Quantum Mechanics (3)
PH 477  Physics Seminar (1)
PH 478  Undergraduate Research (1)
PH 479  Undergraduate Research (2)
PH 570  Mathematical Physics (3)

Choose 6 Hours Approved Technical Electives*

Additional Requirements: 26 Hours
CH 185  General Chemistry (5)
CS 177  Programming for Scientists & Engrs (3)
MA 140  Analytic Geometry & Calculus I (5)
MA 145  Analytic Geometry & Calculus II (4)
MA 244  Analytic Geometry & Calculus III (3)
MA 350  Differential Equations (3)
MA xxx  Math elective (300-500 level) (3)

*Choose from approved list with advice of advisor

POLITICAL SCIENCE
36 Hour Major - Minor Required

Required Courses:
PS 001  Senior Assessment (0)
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)

Select 3 Hours from Each of the Five Categories, plus 6 Additional Hours From One Category (9 Hours of PS courses must be 300-500 level)

American Government & Politics
PS 310  Govt & Politics in American States (3)
PS 335  American Foreign Policy (3)
PS 360  Political Parties & Voting Behavior (3)
PS 365  Legislative Process (3)
PS 387-389  Independent Study in Poli Sci (1-3)
PS 390  American Judicial System (3)
PS 418  Public Policy Analysis (3)
PS 490  Constitutional Law (3)
UI 320  Modern Presidency (3)

Comparative Government & Politics
IU 310  Govt & Pol of East Asia (3)
PS 355  Less Developed Nations (3)
PS 387-389  Independent Study in Poli Sci (1-3)
PS 460  Govt & Politics West Europe (3)
UI 350  Middle East Politics (3)

International Politics
PS 280  Intro to Global Issues (3)
PS 335  American Foreign Policy (3)
PS 380  International Organizations (3)
PS 387-389  Independent Study in Poli Sci (1-3)
PS 580  International Politics (3)
PS 595  International Law (3)
UI 322  International Political Economy (3)

Public Administration
PI 381-383  Internship in Political Science (1-3)
PS 230  American Public Policy (3)
PS 384-386  Internship in Political Science (3)
PS 387-389  Independent Study in Poli Sci (1-3)
PS 402  Fund of Public Administration (3)
PS 403  Public Personnel Administration (3)
PS 405  Org Theory/Behavior (3)
PS 415  Government Budgeting Process (3)
PS 418  Public Policy Analysis (3)
PS 425  Administrative Law & Procedure (3)

Political Theory
PS 387-389  Independent Study in Poli Sci (1-3)
UI 342  Modern Political Thought (3)
UI 357  Early American Political Thought (3)
UI 358  Foundations of Political Thought (3)
UI 361  Contemporary Political Theory (3)

Choose 6 Additional Hours PS Electives

Additional Requirements: 11 Hours
AD 101  Intro to Microcomp Appl (3)

Choose 3 Hours of Statistics:
MA 223  Elem Probability & Statistics (3)
PY 271  Research Design & Analysis I (3)
PY 571  Intro to Behavioral Statistics (3)
QM 257  Business Statistics (3)
SW 242 Statistics for Social Scientists (3)

**Additional Math Requirement:**
MA xxx 5 Hours MA 123 or above (except MA 230, 318, 418)

**PSYCHOLOGY**

**36 Hour Major - Minor Required**
(A grade of ‘C’ or better is required for Required Core Courses.)

**Required Core Courses:**
PY 102 Intro to Psychology (3)
PY 103 Career Devlp in Psychology (3)
PY 230 Ethics & Diversity in Psych (3)
PY 271 Research Design & Analysis I (3)
PY 370 Research Design & Analysis II (3)
PY 489 Adv Topics in Psychology (3)
PY 497 Historical Development of Psychology (3)

**Extended Core Courses: (Choose One Course From Each of the Following Four Areas) (12 hours)**

**Basic/Cognitive Processes**
PY 362 Learning & Memory (3)
PY 460 Cognitive Processes (3)
PY 466 Intro to Physiological Psychology (3)

**Clinical/Personality**
PY 432 Intro to Personality (3)
PY 440 Abnormal Psychology (3)

**Developmental Psychology**
PY 120 The Child: Devel/Concept to Adolsc (3)
PY 220 Psychological Devel Across Life Span (3)
PY 222 Development of the Adolescent (3)

**Social/Applied Psychology**
PY 250 Applied Psychology (3)
PY 358 Social Psychology (3)

**Choose 6 hours from:**
PY 250 Applied Psychology (3)
PY 251 Industrial/Organizational Psychology (3)
PY 301 Cross-Cultural Psychology (3)
PY 325 Psychological Devel of the Family (3)
PY 329/529 Psychology of Death & Dying (3)
PY 353 Social Cognition (3)
PY 358 Social Psychology (3)
PY 359 Psychology & the Law (3)
PY 362 Learning & Memory (3)
PY 366 Intro to Sensation & Perception (3)
PY 432 Intro to Personality (3)
PY 440 Abnormal Psychology (3)
PY 441 Intro to Clinical Psychology (3)
PY 442 Psychotherapy (3)
PY 444 Childhood Psychopathology (3)
PY 460 Cognitive Processes (3)
PY 466 Intro to Physiological Psych (3)
PY 484 Advanced Research in Psychology (3)*
PY 495 Internship in Psychology (3)#
PY 525 Maturity & Aging (3)
PY 531 Psychological Testing (3)
PY 555 Health Psychology (3)
*Requires a faculty mentor
#Contact Internship coordinator

**RECREATION & PARK ADMINISTRATION**

**60 Hour Major - No Minor Required**

**Required Courses:**
RC 100 Leisure in a Diverse Culture (3)
RC 140 Intro to Recreation Services (3)
RC 220 Leadership and Group Dynamics (3)
RC 260 Intro to Therapeutic Recreation (3)
RC 288 Practicum in Recreation Services (3)
RC 303 Research Methods (3)
RC 380 Programming for Recreation Services (3)
RC 385 Rec Facilities Planning & Mgmt (3)
RC 405 Trends & Issues in Rec & Leisure (3)
RC 420 Organization & Admin of Rec Svcs (3)
RC 440 Facilitation of Group Development (3)
RC 497 Recreation Internship (12)

**Choose 15 hours from one track:**

**OUTDOOR ADVENTURE TRACK**
RC 119 Outdoor Adventure Special Topics (1-3)
RC 150 Outdoor Living Skills (3)
RC 151 Outdoor Adventure Skills (3)
RC 210 Camp Leadership (3)
RC 250 Foundations of Outdoor Recreation (3)
RC 310 Outdoor Leadership (3)
RC 311 Parks/Outdoor Resource Mgmt (3)
RC 450 Outdoor Adventure Therapy (3)
UI 459 Nature Literacy (3)

**OR**
UI 429 Environmental Ethics (3)

**RECREATION & PARK ADMINISTRATION TRACK**
RC 210 Camp Leadership (3)
RC 230 Recreational Sports (3)
RC 270 Commercial Recreation (3)
RC 311 Parks/Outdoor Resource Mgmt (3)
RC 340 Mentoring Principles (3)
RC 345 Youth Development Through Leisure (3)
RC 386 Aquatic Facility Management (3)
RC 480 Community Development (3)
UI 354 Lifestyle Enhancement (3)
UI 427 Service & Community (3)
SOCIAL WORK

60 Hour Major - No Minor Required
(See Admission to Social Work Program criteria under Admissions, page 16. A grade of ‘C’ or better is required in all courses within the major including additional requirements.)

Required Courses:
- SW 110 Intro to Social Work (3)
- SW 201 Social & Economic Justice (3)
- SW 207 Understanding Cultural & Social Diversity (3)
- SW 221 Interviewing Skills for Generalist Pract (3)
- SW 222 Case Management (3)
- SW 242 Statistics for Social Scientists (3)
- SW 307 Human Behavior/Social Environment I (3)
- SW 308 Human Behavior/Social Environment II (3)
- SW 310 Social Welfare Policies & Services (3)
- SW 321 Social Work Practice I (3)
- SW 322 Social Work Practice II (3)
- SW 323 Social Work Practice III (3)
- SW 342 Methods of Social Research/Generalist Pract (3)
- SW 449 Social Work Integrative Seminar (3)
- SW 450 Field Education (12)

Choose 6 Hours From:
- HS 301 Found Child Maltreatment/Advocacy (3)
- SW 351 Child Welfare Services (3)
- SW 352 Social Welfare Services to the Aged (3)
- SW 353 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 387-389 Independent Study in Social Work (1-3)
(With approval from advisor, one other 300 or 400 level course may be substituted for a Social Work elective.)

Additional Requirements: 3 Hours
- PY 101 Psych Perspectives/Human Behavior (3)

TECHNOLOGY MANAGEMENT

85-87 Hour Major - No Minor Required

Required Courses:
- IM 102 Technical Communication (3)
- IM 301 Industrial Safety Supervision (3)
- IM 311 Statistical Process Control (3)
- IM 419 Industrial Supervision (3)
- IM 506 Projects in IET (3)

OR
- CM 330 Const Plan & Scheduling (3)
- MA 133 Plane Trigonometry (3)
- MA 134 College Algebra (3)
- MN 220 Engineering Econ Analysis (3)
- MN 260 Tech Computer Programming Appl (3)

OR
- CM 260 Comp Methods of Constr Mgrs (3)
- CS 155 Computer Science I (4)
- PH 120 Introductory Physics I (5)*

OR
- PH 106 Physical Concepts (3)*
- PH 121 Introductory Physics II (5)*

OR
- CH 181 Basic Principles of Chemistry (5)*
- SW 207 Understanding Cult & Soc Diversity (3)
- UI 410 Manufac Research/Global Society (3)

*Computer & Multimedia Graphics, Construction Management & Design, Industrial Management and Sustainable Energy Systems Management must take CH 181; Telecommunications & Computer Networking option must take PH121; Computer & Multimedia Graphics is the only option that can take PH 106.

Choose One Option:

COMPUTER & MULTIMEDIA GRAPHICS
(45 Hours)
- GM 180 Intro to Technical Graphics (3)
- GM 200 Vector & Bitmapted Graphics for Industry (3)
- GM 282 Vector Graphics (3)
- GM 320 Graphic User Interface Design (3)
- GM 326 Interactive Multimedia (3)
- GM 380 3D Modeling & Animation Prod (3)
- GM 385 HDSLR Video Capture (3)
- GM 386 Interactive Multimedia & Animation (3)
- GM 480 3D Animation Pipeline (3)
Bachelor of Science Majors

Southeast Missouri State University 2015-16

GM 490 Advanced Graphics Projects (3)  
PG 284 Photography Fundamentals (3)  
PG 285 Commercial Photographic Lighting (3)  
PG 286 Commercial Studio Photography (3)  
PG 384 Commercial Photography I (3)  
TN 254 Fiber Optics/Network Comm (3)  

OR

TN 255 Microcomputer Maint & Trblshng (3)  

CONSTRUCTION MANAGEMENT & DESIGN (42 Hours)

CM 126 Computer Aided Arch Drafting (3)  
CM 143 Constr Methods & Mats I (3)  
CM 226 Resid Arch Drafting & Design (3)  
CM 243 Construction Methods & Mats II (3)  
CM 310 Building Codes & Compliance (3)  
CM 315 Construction Contracts & Legal Issues (3)  
CM 320 Construction Cost Estimating (3)  
CM 322 Comm Arch Drftg & Design (3)  
CM 325 Bldg Mechanical & Electrical Syst (3)  
CM 343 Construction Surveying & Testing (3)  
CM 410 Construction Project Administration (3)  
CM 443 Constr Equipment Mgmt (3)  
IM 317 Internship (3)  
MA 139 Applied Calculus (3)  
MN 219 Statics & Strength of Materials (3)  

FACILITIES MANAGEMENT & SUSTAINABILITY (42 Hours)

CM 126 Computer Aided Arch Drafting (3)  
CM 226 Resid Arch Drafting & Design (3)  
CM 310 Building Codes & Compliance (3)  
CM 320 Construction Cost Estimating (3)  
CM 325 Bldg Mechanical & Electrical Syst (3)  
CM 330 Construction Planning Scheduling (3)  
ET 470 Energy Management (3)  
FM 504 Facilities Management (3)  
FM 544 Sust Constr Mats & Tech (3)  
FM 554 Facilities Operation & Supervision (3)  
FM 564 Sust Facility Planning & Design (3)  
FM 565 Building Automation & Technology (3)  
IM 317 Internship (3)  
MA 139 Applied Calculus (3)  

INDUSTRIAL & SAFETY MANAGEMENT (42 Hours)

ET 160 Basic Electricity & Electronics (3)  
ET 365 Industrial Electrical Power (3)  
ET 426 Sustainable Energy Tech (3)  
ET 463 Photovoltaic Syst Analysis & Design (3)  
ET 470 Energy Management (3)  
FM 504 Facilities Management (3)  
FM 544 Sust Const Mats & Tech (3)  
FM 554 Facilities Operation & Supervision (3)  
FM 564 Sustainable Facil Plan & Design (3)  
FM 565 Building Automation & Technology (3)  
IM 455 Sustainable & Green Mfg (3)  
MA 139 Applied Calculus (3)  
UI 360 Recycling & Waste Management (3)  
UI 387 Env Law & Public Policy (3)  

OR

UI 386 Environmental Health (3)  

TELECOMMUNICATIONS & COMPUTER NETWORKING (42 Hours)

ET 160 Basic Electricity & Electronics (3)  
ET 245 Logic Circuits (3)  
IM 317 Cooperative Industrial Internship (3)  

OR

CY 201 Intro to Cybersecurity (3)  
MA 139 Applied Calculus (3)  
TN 255 Microcomputer Maint & Troubleshooting (3)  
TN 275 Intro to Networks (3)  
TN 375 Routing/Switching Essentials (3)  
TN 395 Server Maint & Troubleshooting (3)  
TN 425 Wireless Comm & Mobile Data Netwk (3)  
TN 435 Network Security (3)  
TN 475 Scaling Networks (3)  
TN 563 LAN Switching (3)  
TN 565 Network Management (3)  
TN 566 IP Telephony (3)  

TECHNOLOGY MANAGEMENT (up to 34 Hours)

The Technology Management option is specifically designed for students who have earned technically-oriented accredited Associate of Applied Science (A.A.S) degrees “OR for those with national certifications or exams and two years of directly related work experience.” Students are awarded up to 34 credit hours
towards the Technology Management major with the Technology Management option. To complete the BS Degree, students must complete the University Studies requirements and the Technology Management core courses. In addition, with the help of an advisor, students are required to take MA139 (Applied Calculus) and will select 21 credit hours of upper-level technical electives to build upon the skills gained through the AAS degree or background. This option is available on the Cape Girardeau campus and online.

**BACHELOR OF SCIENCE IN ATHLETIC TRAINING DEGREE**

For students planning to see careers as a certified athletic trainer. See Admission to Athletic Training criteria under Admissions, page 12.

**ATHLETIC TRAINING**

67 Hour Major - No Minor Required

*(See Admission to Athletic Training criteria under Admissions, page 12.)*

**Required Courses:**

- FN 235 Nutrition for Health (3)
- FN 401 Sports Nutrition (3)
- HL 111 Intro to Health Management (3)
- HL 120 Health Perspectives (3)
- HL 231 Fitness Conditioning (3)
- HL 251 Intro to Athletic Injuries (3)
- HL 263 Sports Injury Management (3)
- HL 265 Therapeutic Modalities (3)
- HL 280 Basic Skills in Athletic Training (1)
- HL 281 Practicum in Athletic Training I (1)
- HL 282 Practicum in Athletic Training II (1)
- HL 303 Research Methods (3)
- HL 312 Sport and Exercise Pharmacology (3)
- HL 321 Advanced Injury Assessment I (3)
- HL 322 Advanced Injury Assessment II (3)
- HL 323 Advanced Injury Assessment III (3)
- HL 331/031 Exercise Physiology (4)
- HL 345 Resistance Training Principles and Practices (3)
- HL 382 Medical Aspects of Sport (3)
- HL 383 Practicum in Athletic Training III (1)
- HL 384 Practicum in Athletic Training IV (1)
- HL 444 Rehab of Sports Injuries (3)
- HL 472 Admin of Athletic Training (3)
- HL 480 Seminar in Athletic Training (2)
- HL 481 Practicum in Athletic Training (1)
- HL 511 Applied Anatomy (3)
- Tx 4xx Practicum in AT (1)

**Additional Requirements: 20 Hours**

- BS 113/013 Anatomy & Physiology I (4)
- BS 114/014 Anatomy & Physiology II (4)
- CH 180 Chemistry in Our World (3)*
- EN 140 Rhet & Critical Thinking (3)
- MA 134 College Algebra (3)*
- PY 101 Psych Perspect/Human Behav (3)

*Higher level course is acceptable

**BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE**

For students planning careers in business. See Admission to Business Administration Programs criteria under Admissions, page 13. The areas from which majors must be chosen are:

- Accounting
- Business Administration
- Economics
  - Options: Business Economics, Financial Economics
- Finance
- Healthcare Administration
- International Business
- Management
  - Options: Entrepreneurship, Human Resource Management, Management
- Marketing
  - Options: Integrated Marketing Communications, Marketing Management, Sales Management

Normally, 50 percent of an individual’s business degree program (60 hours) must be comprised of non-business courses.

Fifty percent of the business hours counted toward a business degree must be taken at Southeast Missouri State University.

**Business Administration Core**

Business students must be admitted to the College of Business prior to enrolling in upper division (300 level or above) business courses.

**30 Hours Required**

*(A grade of ‘C’ is required in each core course.)*

**Required Courses:**

- AC 221 Principles of Accounting I (3)
- AC 222 Principles of Accounting II (3)
- BA 490 Business Policy & Strategy (3)
- BL 255 Legal Environment of Business (3)
- FI 361 Financial Management (3)
MG 301 Principles of Management (3)
MI 375 Management Information Systems (3)
MK 301 Principles of Marketing (3)
QM 352 Quantitative Analysis (3)

**Choose 3 Hours From:**
- AC 540 International Perspectives of Accounting (3)
- BA 560 International Business Study Tour (3)
- EC 580 International Economics (3)
- FI 540 International Finance (3)
- MG 560 International Management (3)
- MK 560 International Marketing (3)

*International Course taken to meet Business Administration Core requirement may not be counted on a major.

**Support Courses**

**30 Hours Required**

(Some courses may fulfill University Studies requirements. A grade of ‘C’ or better is required in each support course.)

- AD 101 Intro to Microcomputer Applications (3)
- BA 452 Professionalism (1)
- EC 215 Principles of Microeconomics (3)
- EC 225 Principles of Macroeconomics (3)
- EN 140 Rhetoric & Critical Thinking (3)
- MA 134 College Algebra (3)
- MG 252 Business Communication (2)
- QM 257 Business Statistics (3)
- QM 258 Business Statistics II (3)
- SC 105 Fundamentals of Oral Communication (3)
- UI 400 Business & Ethics (3)

**NOTE:** All 100 and 200 level core and support courses are prerequisite to all 300 level business core and business major courses.

**ACCOUNTING**

**30 Hour Major - No Minor Required**

**Required Courses:**
- AC 321 Financial Acct & Reporting I (3)
- AC 330 Accounting Analytics (3)
- AC 332 Financial Acct & Reporting II (3)
- AC 435 Taxation of Individuals (3)
- AC 437 Auditing & Assurance Services (3)

**Choose 15 Hours From:**
- AC 331 Cost Accounting & Analysis (3)
- AC 534 Fin Acct & Reporting III (3)
- AC 537 Adv Audit & Assurance Svcs (3)
- AC 545 Tax of Bus Entities (3)
- AC 548 Govt & Not-For-Profit Acct (3)
- AC 550 Fraud Examination & Accounting (3)
- AC/BL 563 Legal/Ethical Issues of Acct (3)
- AC 573 Internship in Accounting (3)

**NOTE:** Accounting majors must select AC 540 to satisfy the Business Administration core requirement for an international course unless participating in an approved study abroad course or with permission of the department chairperson.

**BUSINESS ADMINISTRATION**

**24 Hour Major - No Minor Required**

**Required Courses:**
- AC BA BL EC FI HA MG MI MK QM 300-599 level (24)*

*Choose a minimum of 4 disciplines with no more than 9 hours in one discipline (represented by subject prefix).

**Choose 3 hours from the following:**
- AC 330 Accounting Analytics (3)
- BA 561 Entrepreneurship Plan & Strat (3)
- EC 351 Applied Economic Models (3)
- EC 490 Business Forecasting (3)
- MG 546 Acquiring & Compensating Talent (3)
- MK 345 Intro to Business Research (3)
- QM 358 Production/Operations Management (3)

*Core and support courses for BSBA degree will not count here.

*No more than 6 hours can double count in this major and a minor in the Harrison College of Business.

*No more than 9 hours may double count between this major and a second Business major.

**ECONOMICS**

**28 Hour Major - No Minor Required**

**Choose One 28 Hour Option:**

**BUSINESS ECONOMICS**
- EC 410 Macroeconomic Theory (3)
- EC 420 Microeconomic Theory (3)
- EC 490 Business Forecasting (3)

**OR**
- EC 351 Applied Econ Models (3)
- EC 498 Economics Seminar (1)
- EC 561 Managerial Economics (3)

**Choose 15 Hours From:**
- EC xxx EC course, (235-500 level)
- UI 349 Comparative Economic Systems (3)
- UI 366 Law and Economics (3)
- UI 371 Government & Business (3)

**FINANCIAL ECONOMICS**
- EC 335 Monetary Economics (3)
- EC 410 Macroeconomic Theory (3)
- EC 420 Microeconomic Theory (3)
- EC 490 Business Forecasting (3)

**OR**
EC 351  Applied Econ Models (3)
EC 498  Economics Seminar (1)
FI 364  Modern Financial Institutions (3)

Choose 12 Hours From:
EC xxx  EC course (235-500 level)
UI 349  Comparative Economic Systems (3)
UI 366  Law & Economics (3)
UI 371  Government & Business (3)

NOTE: No more than 6 hours of UI courses may be selected.

FINANCE

27 Hour Major - No Minor Required

Required Courses:
EC 490  Business Forecasting (3)
OR
EC 351  Applied Econ Models (3)
FI 362  Advanced Financial Management (3)
FI 364  Modern Financial Institutions (3)
FI 368  Investments (3)
FI 480  Financial Policy (3)
Choose 12 Hours From:
FI 351  Principles of Insurance (3)
FI 363  Entrepreneurial Finance (3)
FI 365  Real Estate Principles & Practices (3)
FI 473  Internship in Finance (3)
FI 475  Futures Seminar (3)
FI 493  Independent Study in Finance (1-3)
FI 540  International Finance (3)
FI 568  Portfolio Seminar (3)

Three of the above twelve hours may be from the following:
AC 321  Financial Acctg & Reporting I (3)
EC 335  Money & Banking (3)
EC 410  Macroeconomic Theory (3)

HEALTHCARE ADMINISTRATION

24 Hour Major

Required Courses:
EC 585  Healthcare Economics (3)
HA 473  Internship in Healthcare (3)
HA 510  Healthcare Operations (3)
OR
HA 520  Intro to Healthcare Quality (3)
HA 580  Mgmt of Health Systems (3)
HA 581  Health Admin Policy (3)
HA 582  Healthcare Budget/Reimburse (3)
OR
HA 540  Healthcare Informatics(3)
HA 585  Marketing Healthcare (3)

MG 356  Found of Hum Resource Mgmt (3)

Additional Requirements:
HL 120  Health Perspectives (3)
UI 352  Medical Ethics (3)
UI 412  American Health Care System (3)

INTERNATIONAL BUSINESS

18 Hour Major

INTERNATIONAL CORE COURSES:
Choose 9 Hours From:
AC 540*  International Accounting (3)
BA 458  International Business Internship (3)
BA 560*  International Business (3)
EC 580*  International Economics (3)
FI 540*  International Finance (3)
MG 560*  International Management (3)
MK 560*  International Marketing (3)

Choose 3 hours from the following:
AC 330  Accounting Analytics (3)
BA 561  Entrepreneurship Plan & Strat (3)
EC 351  Applied Economic Models (3)
EC 490  Business Forecasting (3)
MG 546  Acquiring & Compensating Talent (3)
MK 345  Intro to Business Research (3)
QM 358  Production/Operations Management (3)

Required minor to be selected in any department in the Harrison College of Business (except “Business Administration” minor) or select a second major from the Harrison College of Business.

FOREIGN LANGUAGE/ CULTURAL SUPPORT

3 credit hours of University foreign language/culture instruction or equivalent (e.g., 2 years of high school language with a grade of ‘C’ or better) and a term of study abroad of at least 8 weeks
OR
12 credit hours of foreign language/culture instruction and an international immersion program less than 8 weeks in length
*If chosen for the IB major, cannot be used to fulfill International Business requirement for the BSBA core.

MANAGEMENT

27 Hour Major - No Minor Required

(Cannot double count elective choices in more than one option.)

Required Management Core Courses:
BA 361  Princ of Entrepreneurship (3)
MG 356  Found of Human Resource Mgmt (3)
MG 470  Leadership in Management (3)
Real World Experience – Choose one option:
  Participate in departmentally approved international academic program (3)
  OR
Complete departmentally approved internship (3)
Choose One 15 Hour Option:
ENTREPRENEURSHIP
Required Courses
- BA 531 Imag, Creat & Innovation (3)
- BA 551 Manag & Grow New Ventures (3)
- BA 561 Bus Planning for New Ventures (3)
Select 6 hours from the following:
- FI 363 Entrepreneurial Finance (3)
- MG 354 Bus Negotiation: Conc/Pract (3)
- MG 456 Topics in Hum Res Mgmt (3)
- MG 550 Improv Team Performance (3)
- MG 562 Orgnz Theory & Design (3)
- MK 345 Intro to Bus Research (3)
- MK 555 Internet Marketing (3)
HUMAN RESOURCE MANAGEMENT
Required Courses:
- MG 526 Manag & Dev New Talent (3)
- MG 546 Acquiring & Compensating Talent (3)
- MG 566 Legal & Union Issues in HR (3)
Choose 6 Hours From the Following:
- BA 531 Imag, Creat & Innovation (3)
- EC 380 Labor Economics (3)
- MG 354 Bus Negotiation: Conc/Practice (3)
- MG 456 Topics in Human Resource Mgmt (3)
- MG 550 Improv Team Performance (3)
- MG 562 Orgnz Theory & Design (3)
- MK 341 Public Relations (3)
MANAGEMENT
Required Courses:
- MG 354 Bus Negotiation: Conc/Practice (3)
- MG 550 Improv Team Performance (3)
- MG 562 Org Theory & Design (3)
Choose 3 hours from the following:
- BA 531 Imag, Creat & Innovation (3)
- BA 561 Bus Planning for New Ventures (3)
- IM 411 Total Quality Assurance (3)
- MG 457 Organizational Behavior (3)
- MG 526 Manag & Dev New Talent (3)
- MG 560 International Management (3)*
- MK 349 Retail Management (3)
- MK 447 Sales Management (3)
Choose 3 hours from the following:
- MK 345 Intro to Business Research (3)
- QM 358 Production/Operations Management (3)
*If selected as elective, cannot also count for international course requirement for the BSBA degree.

MARKETING
24 Hour Major - No Minor Required
Required Marketing Core:
- MK 343 Advertising & Promotion (3)
- MK 344 Consumer Behavior (3)
- MK 345 Intro to Business Research (3)
- MK 449 Marketing Management (3)
Choose 3 Hours MK Courses (300-500 level except MK 301), MG 560*, MK 560*, BA 361 or BA560*
Real World Experience – Choose one option:
  Participate in departmentally approved international academic program
  OR
  Complete departmentally approved internship
Choose One Option:
INTEGRATED MARKETING COMMUNICATIONS
- MK 342 Professional Selling (3)
- MK 443 Integrated Mktg Comm Pract (3)
Choose 3 Hours:
- MK 341 Public Relations (3)
- MK 555 Internet Marketing (3)
MARKETING MANAGEMENT
- MK 348 Product & Pricing Strategy (3)
Choose 3 Hours MK Courses (300-500 level, except MK 301).
If MK 560 is selected here, it cannot be used for the international course requirement for the BSBA nor the elective in the Marketing core.
Choose 3 Hours:
- MK 346 Distribution Management (3)
- MK 349 Retail Management (3)
SALES MANAGEMENT
- MK 342 Professional Selling (3)
- MK 447 Sales Management (3)
Choose 3 Hours:
- MG 354 Bus Negotiation: Conc/Practice (3)
- MG 470 Leadership in Management (3)
- MG 550 Improving Team Performance (3)
*If selected as elective, cannot also count for international course requirement for the BSBA degree.
BACHELOR OF SCIENCE
IN EDUCATION DEGREE

For students planning to teach in early childhood, elementary, middle and secondary schools. Six programs are offered:

- Early Childhood Education (birth-grade 3) with add-on certification in elementary education (grades 1-6)
- Elementary Education (grades 1-6) with the option of adding on Middle School certification (grades 5-9)
- Exceptional Child Education (grades K-12) with add-on certification in elementary education (grades 1-6)
- Middle School Education (grades 5-9)
- Secondary Education (grades 9-12)
- K-12 Education (Physical Education, Art, Music, FACS)

All majors in education must meet requirements for admission to Teacher Education as determined by the implementation of the MoSPE Standards which took effect in March 2013. Regardless of printed program requirements, any changes or additions mandated by the State of Missouri will become effective on the date cited by the regulations.

For applicants graduating in or after the Spring semester of the year 2017 from a baccalaureate program approved by the department, a cumulative grade point average of 2.75 or higher, and a grade point average of 3.00 or higher in professional education and the specific content area for which certification is sought (Page 17, B 2 of the new standards).

Students transferring into education programs must complete three semester hours of English Composition with grades of ‘C’ or better to meet certification requirements.

All teacher education candidates will submit an FBI background check during the first field experience in teacher education and renew it in subsequent field experiences.

EARLY CHILDHOOD EDUCATION
(Curriculum pending state approval)

Students in Early Childhood (birth through third grade) will also add on certification in elementary education (grades one through six) with this program. Students desiring to be admitted to and retained in the College of Education may not add a minor or specialization to this major without approval from the College of Education.

Other minors which may extend one's graduation date or affect scholarship or financial assistance must be approved by the College of Education since unapproved minors do not extend one's certification.

Professional Education Requirements: 85 Hours
(A minimum grade of “C” is required in each professional education course with the exception of ED280 which requires a minimum grade of B.)

CE 330  Classroom Management and Environ Org (3)
CE 340  Family/School Collaboration (3)
CE 364  Mthd of Math/Sci/Soc Stu in EC & EE (3)
CE 365  Observation/Assmnt/Data Analysis (3)
CE 366  Curr/Theory/Progr Mgmt in Early Chld (3)
CE 370  Lang Aquisition of Young Child (3)
CE 530  Found of Early Child Spec Educ (3)
CE 480  Early Childhood Student Teaching (12)
CF 124  Child Health, Safety & Nutrition (3)
CF 233  Creat Thought/Express in Children (3)
CF 285  Learn Theory/Appl: Infants & Toddlers (3)
CF 512  Family/Consumer Resources (3)
ED 280  Intro to Educ as a Profession (3)
EF 400  Seminar in Education Issues (1)
EL 274  Diversity in America’s Schools (3)
EL 300  Asst/Instr Tech in Univ Desgn for Lrng Env (3)
EL 314  Literacy Field Experience (3)
EL 316  Emergent/Early Literacy Instruction (3)
EL 317  Intermd & Middle School Literacy Instr (3)
EL 354  Meeting Needs of Struggling Readers (3)
EL 355  Content Area Literacy (3)
EL 410  Differentiated Instruction (3)
EL 430  Adv Field Experience (3)
EX 390  Psych & Educ of the Except Child (3)
PY/CF 120  The Child: Devel/Conception to Adolsc (3)
UI 506  Educ Law & Society (3)

Additional Requirements: 39 Hours
(Some courses may fulfill University Studies requirements)

BS 118  Intro Process Science Elem Teachers (1)
BS 218  Biological Science: A Process Apprch (3)
EC 101  Economic Problems & Policies (3)
EN 100  English Composition I (3)
EN 140  Rhetoric & Critical Thinking (3)
LI 243  Children’s Literature (3)
MA 128  Numbers & Operations for Educators (4)
MA 418  Geometry for Educators (4)
PH 218  Physical Science: A Process Approach (3)
PS 103  U.S. Political Systems (3)
SC 105  Fundamentals of Oral Communication (3)
UI 308  Cult/Phys Landscapes (3)
US 105  American History I (3)
ELEMENTARY EDUCATION
(Curriculum pending state approval)

Students in the Elementary Education program are certified to teach in grades one through six. This program also offers the option to add on certification in one Middle School area: Language Arts, Math, Science, Social Sciences, grades five through nine (See section below for requirements). Other minors which may extend one’s graduation date or risk loss of scholarship or financial assistance must be approved by the College of Education since such minors do not extend one’s certification.

Professional Education Requirements: 81 Hours
(A minimum grade of “C” is required in each professional education course with the exception of ED280 which requires a minimum grade of B.)

- CF 233 Great Thought/Express in Children (3)
- ED 280 Intro to Educ as a Profession (3)
- EF 400 Seminar in Education Issues (1)
- EL 274 Diversity in America’s Schools (3)
- EL 300 Asst/Instr Tech in Univ Desgn for Lrng Env (3)
- EL 310 Pedagogy: Elem/Instr Models/Strat (3)
- EL 314 Literacy Field Experience (3)
- EL 316 Emergent/Early Literacy Instruction (3)
- EL 317 Interm & Middle School Literacy Instr (3)
- EL 340 Classroom Management (3)
- EL 350 Content Field Experience (3)
- EL 354 Meeting Needs of Struggling Readers (3)
- EL 355 Content Area Literacy (3)
- EL 360 Integ Math/Science/Soc Sci/Health Instruct (3)
- EL 410 Differentiated Instruction (3)
- EL 420 Assess/Data Analysis (3)
- EL 430 Advanced Field Experience (3)
- EL 480 Elem Educ Student Teaching (12)
- EX 390 Psych & Educ of the Except Child (3)
- LI 243 Children’s Literature (3)
- MA 128 Numbers & Operations for Educators (4)
- MA 418 Geometry and Measurement for Educators (4)
- PY/CF 120 The Child: Devel/Conception to Adolsc (3)
- UI 506 Education Law & Society (3)

Additional Requirements:
(These courses may also meet University Studies requirements)

- BS 118 Intro Process Science Elem Teachers (1)
- BS 218 Biological Science: A Process Apprch (3)
- EC 101 Economic Problems & Policies (3)
- EN 100 English Composition I (3)
- EN 140 Rhetoric & Critical Thinking (3)
- PH 218 Physical Science: A Process Approach (3)
- PS 103 U.S. Political Systems (3)
- SC 105 Fundamentals of Oral Communication (3)
- UI 308 Physical/Cultural Landscapes of the World (3)
- US 105 American History I (3)

Approved elective – Choose 9 hours:
Choose from the following areas, with advice of advisor - Autism, Family Engagement, Foreign Language, Inclusion, Middle School certification, TESOL

ELEMENTARY EDUCATION WITH ADD-ON MIDDLE SCHOOL EDUCATION CERTIFICATION
(Curriculum pending state approval)

Students in the Elementary Education program may add on certification in one Middle School area: Language Arts, Math, Science, Social Sciences, grades five through nine. Other minors which may extend one’s graduation date or risk loss of scholarship or financial assistance must be approved by the College of Education since such minors do not extend one’s certification.

Professional Education Requirements: 81 Hours
(A minimum grade of “C” is required in each professional education course with the exception of ED280 which requires a minimum grade of B.)

- CF 233 Great Thought/Express in Children (3)
- ED 280 Intro to Educ as a Profession (3)
- EF 400 Seminar in Education Issues (1)
- EL 274 Diversity in America’s Schools (3)
- EL 300 Asst/Instr Tech in Univ Desgn for Lrng Env (3)
- EL 314 Literacy Field Experience (3)
- EL 316 Emergent/Early Literacy Instruction (3)
- EL 317 Interm & Middle School Literacy Instr (3)
- EL 340 Classroom Management (3)
- EL 350 Content Field Experience (3)
- EL 354 Meeting Needs of Struggling Readers (3)
- EL 355 Content Area Literacy (3)
- EL 360 Integ Math/Science/Soc Sci/Health Instruct (3)
- EL 410 Differentiated Instruction (3)
- EL 420 Assess/Data Analysis (3)
- EL 430 Advanced Field Experience (3)
- EL 480 Elem Educ Student Teaching (12)
- EX 390 Psych & Educ of the Except Child (3)
- LI 243 Children’s Literature (3)
- MA 128 Numbers & Operations for Educators (4)
- MA 418 Geometry and Measurement for Educators (4)
- SE 360 Pedagogy 2: Interdis Method/Middle Schl (3)
- PY/CF 120 The Child: Devel/Conception to Adolsc (3)

OR

- PY 222 Development of the Adolescent (3)
- UI 506 Education Law & Society (3)
Additional Requirements for Middle School Certification:
(Some courses may meet University Studies requirements and must be completed with a minimum grade of “C”)

Choose one content area:

Language Arts: 18 hours
- EN 201 Writing About Literature (3)
- EN 378 Grammars of English (3)
- LI 256 Variety of Literature (3)
  OR
- LI 385 Literature for Secondary Classroom
- LI 270 American Literature I (3)
  OR
- LI 271 American Literature II (3)
- LI 542 Literature for the Young Adult (3)
- SE 319 Tech Teaching Lang Arts (3)

Mathematics: 19 hours
- MA 137 Precalculus (5)
- MA 138 Discrete Mathematics I (3)
- MA 140 Analytic Geometry and Calculus I (5)
- MA 223 Elementary Probability and Statistics (3)
- SE 311 Tech Teaching Math (3)

Science: 21 hours
- BI/CH/EP 405 Engineering in Science Education (1)
- BS 105 Environmental Biology (3)
- CH 181 Basic Principles of Chemistry (5)
- PH 106 Physical Concepts (3)
- PH 109 Exploring the Universe (3)
- SE 320 Tech Teaching Science (3)
- UI 318 Earth Science: A Process Approach (3)

Social Studies: 15 hours
- EH 101 Early European Civilization (3)
- OS 200 Survey of Social Science (3)
- SE 318 Tech Teaching Social Studies (3)
- US 107 American History II (3)
- WH 305 World Civilizations (3)

Additional Requirements: 28 Hours
(These courses may also meet University Studies requirements)
- BS 118 Intro Process Science Elem Teacher (1)
- BS 218 Biological Science: A Process Approach (3)
- EC 101 Econ Problems & Policies (3)
- EN 100 English Composition I (3)
- EN 140 Rhetoric and Critical Thinking (3)
- PH 218 Phys Sci: Process Approach (3)
- PS 103 US Political Systems (3)
- SC 105 Fund of Oral Communication (3)
- UI 308 Cultural/Phys Landscapes/World (3)
- US 105 American History I (3)

EXCEPTIONAL CHILD EDUCATION WITH ELEMENTARY CERTIFICATION
(Curriculum pending state approval)

Students in Early Childhood (birth through third grade) will also add on certification in elementary education (first through sixth grade) with this program. Students desiring to be admitted to and retained in the College of Education may not add a minor or specialization to this major without approval from the College of Education. Other minors which may extend one’s graduation date or affect scholarship or financial assistance must be approved by the College of Education since unapproved minors do not extend one’s certification.

Professional Education Requirements: 93 Hours
(A minimum grade of “C” is required in each professional education course.)

- CF 233 Great Thought/Express in Children (3)
- ED 280 Intro to Educ as a Profession (3)
- EF 400 Seminar in Education Issues (1)
- EL 274 Diversity in America’s Schools (3)
- EL 300 Asst/Instr Tech in Univ Design for Lrng Env (3)
- EL 314 Literacy Field Experience (3)
- EL 316 Emergent/Early Literacy Instruction (3)
- EL 317 Intermd & Middle School Literacy Instr (3)
- EL 350 Content Field Experience (3)
- EL 354 Meeting Needs of Struggling Readers (3)
- EL 355 Content Area Literacy (3)
- EL 360 Intreg Math/Science/Soc Sci/Health Instruct (3)
- EL 420 Assess/Data Analysis (3)
- EX 302 Lang Devel/Child w/ Exceptionalities (3)
- EX 304 Classroom & Behavior Management (3)
- EX 305 Content Area Teach: Lrn/Tmis Sec Stu with Except (3)
- EX 309 Adv Fld Exp in Educ of Chldrn with Except (3)
- EX 311 Intro to Children with Exceptionalities (3)
- EX 312 Diag & Remed of Math Difficulties (3)
- EX 317 Assmt & Tech of Teach Child with Except (3)
- EX 373 Strat/Techn Teach Child with Except (3)
- EX 480 Exceptional Child Educ Student Teaching (12)
- EX 507 Families & the Child with Exceptionalities (3)
- LI 243 Children’s Literature (3)
- MA 128 Numbers & Operations for Educators (4)
- MA 418 Geometry and Measurement for Educators (4)
- PY/CF 120 The Child
  OR
- PY 222 Development of the Adolescent (3)
- UI 506 Education Law & Society (3)
Additional requirements:
(Some courses may also meet University Studies requirements)
BS 118  Process Science Elementary Teachers (1)
BS 218  Biological Science: A Process Approach (3)
EC 101  Economic Problems and Policies (3)
EN 100  English Composition I (3)
EN 140  Rhetoric & Critical Thinking (3)
PH 218  Physical Science: A Process Approach (3)
PS 103  U.S. Political Systems (3)
SC 105  Fundamentals of Oral Communication (3)
UI 308  Physical & Cultural Landscapes (3)
US 105  American History I (3)

MIDDLE SCHOOL EDUCATION:
Grades 5-9
(Curriculum pending state approval)

Middle School Professional Education Requirements: 49 Hours
A minimum cumulative GPA of 2.75 is required for graduation and certification. A minimum 3.0 GPA in the professional education courses is required for graduation and certification.

Middle Level students must choose one area of concentration and take the following professional education courses:
(A minimum grade of “C” is required in each professional education course with the exception of ED280 which requires a minimum grade of B.)
ED 280  Intro to Teaching (3)
EF 400  Seminar/Educ Issues for Student Teachers (1)
EX 390  Psych & Educ of Except Child (3)
PY 222  Development of the Adolescent (3)
SE 307  Reading/Writing in the Content Area (3)
SE 311  Techniques of Teaching Mathematics (3)
SE 318  Tech of Teaching Sec Social Studies (3)
SE 319  Techniques of Teaching English (3)
SE 320  Techniques of Teaching Science (3)
SE 350  Pedagogy 1: Prin of Effect Teach (3)
SE 355  Field II (3)
SE 360  Pedagogy 2: Interdis Method/Middle Sch (3)
SE 380  Advanced Field (3)
SE 385  Pedagogy 3: Mdl/Sec Edu Mthds of Sec Teach (3)
SE 390  Intrvntnt/Mdl & Sec Stu/Spec Lit Needs (3)
SE 465  Student Teaching (12)
UI 506  School Law (3)

Choose one content area – minimum 3.0 GPA required for graduation and certification:

Language Arts
EN 201  Writing About Literature (3)
EN 378  Grammars of English (3)
LI 243  Children's Literature (3)
LI 256  Variety of Literature (3)
LI 270  American Literature I (3)

OR
LI 271  American Literature II (3)
LI 385  Literature for the Secondary Classroom (3)
LI 542  Literature for the Young Adult (3)

Mathematics
MA 128  Numbers & Operations for Educators (4)
MA 137  Precalculus (5)
MA 138  Discrete Mathematics I (3)
MA 140  Analytic Geometry and Calculus I (5)
MA 223  Elementary Probability and Statistics (3)
MA 418  Geometry for Teachers (4)
UI 438  The Nature/Growth of Mathematical Thought (3)

Science
BI/CH/EP 405 Engineering in Science Education (1)
BS 105  Environmental Biology (3)
BS 118  Intro Process Science Elem Teacher (1)
BS 218  Biological Science: A Process Approach (3)
CH 181  Basic Principles of Chemistry (5)
PH 106  Physical Concepts (3)
PH 109  Exploring the Universe (3)
PH 218  Physical Science: A Process Approach (3)
UI 318  Earth Science: A Process Approach (3)

Social Studies
EC 101  Economic Problems and Policies (3)
EH 101  Early European Civilization (3)
OS 200  Survey of Social Science (3)
PS 103  US Political Systems (3)
UI 308  Cultural/Physical Landscapes of the World (3)
US 105  American History I (3)
US 107  American History II (3)
WH 305  World Civilizations (3)

SECONDARY EDUCATION
(Curriculum pending state approval)
Secondary level majors must choose from the following majors:
Agricultural Education  Music Education (K-12)
Art Education (K-12)  Physical Education (K-12)
Biology Education  Physics Education
Chemistry Education  Social Studies Education
English Education  Spanish Education (K-12)
Family & Consumer Sciences (Birth-12)  Technology & Engineering Ed.
French Education (K-12)  Unified Science: Biology
German Education (K-12)  Unified Science: Physics
Mathematics Education
Certification programs are available in Speech and Language Specialist (K-12), and Teaching English as a Second Language (K-12; graduate program).

The applicant must meet the following specifications:

1. For applicants graduating before spring 2017 from a baccalaureate program approved by the department, an overall grade point average of 2.5 or higher on a 4.0 scale, and a 2.5 or higher on a 4.0 scale in the major area of study.

2. For applicants graduating in or after the spring 2017 from a baccalaureate program approved by the department, an overall grade point average of 2.75 or higher on a 4.0 scale, and a grade point average of 3.0 or higher in professional education and in the specific content area for which certification is sought.

Professional Education Requirements: 47 Hours
(A minimum grade of “C” is required in each professional education course with the exception of ED280 which requires a minimum grade of B.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
<td>ED 280</td>
<td>Intro to Teaching (3)</td>
</tr>
<tr>
<td>EF 400</td>
<td>Seminar/Educ Issues for Student Teachers (1)</td>
</tr>
<tr>
<td>EX 390</td>
<td>Psych &amp; Educ of Except Child (3)</td>
</tr>
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<td>PY 222</td>
<td>Development of the Adolescent (3)</td>
</tr>
<tr>
<td>SE 307</td>
<td>Reading/Writing in the Content Area (3)</td>
</tr>
<tr>
<td>SE 3xx</td>
<td>Methods of Teaching Subject Area (3)</td>
</tr>
<tr>
<td>SE 350</td>
<td>Pedagogy 1: Prin of Effect Teach (3)</td>
</tr>
<tr>
<td>SE 355</td>
<td>Field II (3)</td>
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<td>SE 365</td>
<td>Pedagogy 2: Sec Schl-Interdis Mthds/Tech (4)</td>
</tr>
<tr>
<td>SE 380</td>
<td>Advanced Field (3)</td>
</tr>
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<td>SE 385</td>
<td>Pedagogy 3: Mdl/Sec Edu Mthds of Sec Teach (3)</td>
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<tr>
<td>SE 390</td>
<td>Instr Intervent/Mdl &amp; Sec Stu/Spc Lit Needs (3)</td>
</tr>
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<td>SE 465</td>
<td>Student Teaching (12)</td>
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<tr>
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<td>Plant Science Lab (1)</td>
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<td>AO 215</td>
<td>Soils (3)</td>
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<td>AY 101</td>
<td>Animal Science (3)</td>
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<td>Animal Science Experience (2)</td>
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<td>Basic Prin of Chem (5)</td>
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<td>CH 185</td>
<td>General Chemistry (5)</td>
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<td>HO 110</td>
<td>Intro to Horticulture (3)</td>
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<tr>
<td>MA 134</td>
<td>College Algebra (3)</td>
</tr>
<tr>
<td>UI 344</td>
<td>Plants &amp; Humanity (3)</td>
</tr>
<tr>
<td>UI 436</td>
<td>Agricultural Ethics (3)</td>
</tr>
</tbody>
</table>

ART EDUCATION

48 Hour Major - No Minor Required
(A grade of ‘C’ or better is required in all courses within the major.)

Required Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AH 110</td>
<td>Art History Survey I (3)</td>
</tr>
<tr>
<td>AH 210</td>
<td>Art History Survey II (3)</td>
</tr>
<tr>
<td>AR 001</td>
<td>Foundation Review (0)</td>
</tr>
<tr>
<td>AR 100</td>
<td>Drawing I (3)</td>
</tr>
<tr>
<td>AR 104</td>
<td>2D Design (3)</td>
</tr>
<tr>
<td>AR 106</td>
<td>3D Foundations (3)</td>
</tr>
<tr>
<td>AR 201</td>
<td>Color Composition (3)</td>
</tr>
<tr>
<td>AR 202</td>
<td>Drawing II (3)</td>
</tr>
<tr>
<td>AR 270</td>
<td>Art for the Elementary Teacher (3)</td>
</tr>
<tr>
<td>AR 323</td>
<td>Art &amp; New Technology (3)</td>
</tr>
<tr>
<td>AW 845</td>
<td>Computer Art (3)</td>
</tr>
<tr>
<td>AR 350</td>
<td>Fibers I (3)</td>
</tr>
<tr>
<td>AW 847</td>
<td>Fibers Workshop (3)</td>
</tr>
<tr>
<td>AR 332</td>
<td>Sculpture I (3)</td>
</tr>
<tr>
<td>AW 841</td>
<td>Welded Sculpture Workshop (3)</td>
</tr>
<tr>
<td>AR 342</td>
<td>Ceramics I (3)</td>
</tr>
<tr>
<td>AR 847</td>
<td>Raku Workshop (3)</td>
</tr>
<tr>
<td>AR 325</td>
<td>Painting (3)</td>
</tr>
<tr>
<td>AW 851</td>
<td>Painting Workshop (3)</td>
</tr>
<tr>
<td>UI 337</td>
<td>Issues in Modern Architecture (3)</td>
</tr>
<tr>
<td>UI 461</td>
<td>Issues in Modern Art (3)</td>
</tr>
</tbody>
</table>

AGRICULTURAL EDUCATION

54 Hour Major - No Minor Required
(A grade of ‘C’ or better is required in all courses within the major.)

Required Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD 101</td>
<td>Intro to Microcomputer Appl (3)</td>
</tr>
<tr>
<td>AG 201</td>
<td>World Food &amp; Society (3)</td>
</tr>
<tr>
<td>AG 245</td>
<td>Agricultural Economics (3)</td>
</tr>
<tr>
<td>AG 250</td>
<td>Agribusiness Management (3)</td>
</tr>
<tr>
<td>AG 302</td>
<td>Agr Educ Planning (3)</td>
</tr>
<tr>
<td>AG 303</td>
<td>Agricultural Mechanization (3)</td>
</tr>
<tr>
<td>AG 334</td>
<td>Agribusiness Finance (3)</td>
</tr>
<tr>
<td>AG 355</td>
<td>Agricultural Seminar (1)</td>
</tr>
<tr>
<td>AG 447</td>
<td>Marketing Agric Products (3)</td>
</tr>
<tr>
<td>AO 120</td>
<td>Plant Science (3)</td>
</tr>
<tr>
<td>AO 215</td>
<td>Soils (3)</td>
</tr>
<tr>
<td>AY 101</td>
<td>Animal Science (3)</td>
</tr>
<tr>
<td>AY 105</td>
<td>Animal Science Experience (2)</td>
</tr>
<tr>
<td>CH 181</td>
<td>Basic Prin of Chem (5)</td>
</tr>
<tr>
<td>CH 185</td>
<td>General Chemistry (5)</td>
</tr>
<tr>
<td>HO 110</td>
<td>Intro to Horticulture (3)</td>
</tr>
<tr>
<td>MA 134</td>
<td>College Algebra (3)</td>
</tr>
<tr>
<td>UI 344</td>
<td>Plants &amp; Humanity (3)</td>
</tr>
<tr>
<td>UI 436</td>
<td>Agricultural Ethics (3)</td>
</tr>
</tbody>
</table>

Every year, artwork must be entered in the Juried Student Assessment Exhibition.
BIOLOGY EDUCATION

43-64 Hour Major - No Minor Required

Required Courses:
BI 151 Biological Reasoning (3)
BI 153 Intro to Organismal Biology (4)
BI 154 Genetics and Cell Biology (4)
BI 200 General Microbiology (3)
BI 332 General Ecology (3)
BI 405 Engr in Science Educ (1)
BI 489 Analysis of Biological Issues (2)
MA 134 College Algebra (3)
UI 318 Earth Science: Proc Approach (3)
UI 422 Scientific Reasoning (3)

Choose One Option:

BIOLOGY EDUCATION OPTION:
BS 105 Environmental Biology (3)
PH 106 Physical Concepts (3)

OR

PH 120 Intro Physics I (5)

AND

PH 121 Intro Physics II (5)
CH 181 Basic Prin of Chemistry (5)

OR

CH 185 General Chemistry (5)

AND

CH 186 Found of Inorganic Chem (3)

3 hours approved Biology electives at the 300-500 level

UNIFIED SCIENCE OPTION:
BO 3xx/4xx Advanced Botany (3)
BS 113 Anatomy & Physiology I (4)
BS 114 Anatomy & Physiology II (4)
CH 185 General Chemistry (5)
CH 186 Found of Inorganic Chem (3)
GO 110 Physical Geology (3)
MA 134 College Algebra (3)
MA 139 Applied Calculus (3)
PH 120 Introductory Physics I (5)
UI 331 Found of Biochemistry (3)
UI 422 Scientific Reasoning (3)
UI 443 Professional Exp in Chemistry (3)

Choose 3 Hours From:
BS 108 Biology for Living (3)
BS 218 Bio Science: A Process Approach (3)

Choose one of the following:
GO 110 Physical Geology (3)
GO 220 Meteorology (3)
GO 320 Oceanography (3)
UI 318 Earth Science: Proc Approach (3)

Choose one of the following:
BI 332 General Ecology (3)
BS 105 Environmental Biology (3)
CH 450/EV 450 Environmental Chem (3)
GO 150 Earth Science: Environ Hazards (3)
GO 305 Environmental Geoscience (3)
UI 360 Recycling & Waste Management (3)
UI 372 Earthquakes & Society (3)

ENGLISH EDUCATION

39 Hour Major - No Minor Required
(A grade of 'C' or better is required in all courses within the major.)

Required Courses:
EN 140 Rhet & Critical Thinking (3)
EN 201 Writing About Literature (3)
EN 378 Grammars of English (3)
EN 379 Composition in the Secondary School (3)
LI 256 Variety of Literature (3)
LI 260 English Lit I (3)

OR

LI 261 English Lit II (3)
LI 270 American Lit I (3)

OR

LI 271 American Lit II (3)
LI 311 World Literature I (3)

OR

LI 312 World Literature II (3)
LI 542 Literature for Young Adults (3)

Language Elective (Choose 3 hours):
EN 486 Sociolinguistics (3)
UI 500 History of English Language (3)
UI 501 Principles of Language (3)

Writing Elective (Choose 3 hours):
EN 275 Intro to Creative Writing (3)
EN 376 Advanced Composition (3)

**Upper Division Electives (Choose 6 hours):**
EN 300-EN 599 English elective
LI 300-LI 599 Literature elective
UI 332 Images of Women in Literature (3)
UI 341 Victorian Studies (3)
UI 431 Shakespeare Trag & Hum Cond (3)
UI 432 Shakespeare Hist/Com & Hum Cond (3)

**FRENCH EDUCATION**

**36 Hour Major - No Minor Required**
*(A grade of 'C' or better is required in all courses within the major.)*

**Required Courses:**
FR 001 French Exit Exam (0)
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)
FR 306 Contemporary France (3)
FR 320 French Pronunciation & Phonetics (3)

**Choose 6 Hours From:**
FR 311 Survey of French Literature II (3)
FR 375 French Cinema (3)
FR 415 17th Century French Literature (3)
FR 430 20th Century French Literature (3)

**Choose 6 Hours From:**
FR 301 Intermediate French Composition (3)
FR 305 Intermediate French Conversation (3)
FR 315 Commercial French (3)
FR 330 French Grammar (3)

**Choose 6 Hours FL/FR Electives (300-500 level)**

**GERMAN EDUCATION**

**36 Hour Major - No Minor Required**
*(A grade of 'C' or better is required in all courses within the major.)*

**Required Courses:**
GN 001 German Exit Exam (0)
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)
GN 320 German Culture & Civilization (3)

**Choose 6 Hours From:**
GN 310 Survey of German Literature I (3)
GN 311 Survey of German Literature II (3)
GN 375 History of German Film (3)
GN 424 Twentieth-Century German Literature (3)
GN 440 Special Topics: German (3)

**Choose 6 Hours From:**
GN 301 Intermediate German Composition (3)
GN 305 Conversational German (3)
GN 315 Commercial German (3)
GN 330 German Grammar (3)
GN 340 German Phonetics & Pronunciation (3)

**Choose 3 Hours any German Language Course**

**Choose 6 Hours in German Language or Literature**

**MATHMATICS EDUCATION**

**43 Hour Major - No Minor Required**

**Required Courses:**
MA 003 Math Major Field Achvmt Test (0)
MA 138 Discrete Mathematics I (3)
MA 140 Analytic Geometry & Calculus I (5)
MA 145 Analytic Geometry & Calculus II (4)
MA 223 Elem Probability & Statistics (3)

**OR**
MA 523 Probability & Statistics I (3)
MA 244 Analytic Geometry & Calculus III (4)
MA 250 Foundations of Mathematics (3)
MA 334 Mathematical Programming (3)
MA 340 Concepts of Geometry (3)
MA 345 Linear Algebra (3)
MA 443 Elementary Number Theory (3)
MA 445 Modern Algebra (3)
MA 449 Mathematical Problem Solving (3)

**PHYSICAL EDUCATION**

**(PK-12 CERTIFICATE)**

**58 Hour Major - No Minor Required**
*(A grade of 'C' or better is required in all courses within the major.)*

**Required Courses:**
AT 174 Rock Climbing & Rappelling (1)
BS 113 Anatomy & Physiology I (4)
FN 235 Nutrition for Health (3)
HL 231 Fitness Conditioning (3)
PE 201 Sport & Society (3)
PE 216 Theory & Practice of Team Sports (2)
PE 217 Theory /Pract of Individ/Dual Leis Act (4)
PE 220 First Aid (2)
PE 235 Psych of Coaching & Human Perf (3)
PE 238 Foundations, Hist, Phil of PE (3)
PE 239 Teaching Children Physical Education (3)
PE 240 Rhythm, Plays & Games (2)
PE 261 Conc Injury Mgmt in PE (3)
PE 262 Introduction to Group Exercise (1)
PE 263 Injury Mgmt in PE Lab (1)
PHYSICS EDUCATION

57-67 Hour Major - No Minor Required
(A grade of ‘C’ or better is required in all courses within the major.)

Required Courses:
EP 100  Physic & Engr Concepts (1)
EP 405  Engr in Science Edu (1)
MA 140  Analy Geom & Calc I (5)
MA 145  Analy Geom & Calc II (4)
MA 244  Analy Geom & Calc III (4)
PH 230/030  General Physics I (5)
PH 231/031  General Physics II (5)
PH 360  Modern Physics (3)
UI 330  Experimental Methods I (3)
UI 422  Scientific Reasoning (3)

Choose 3 Hours From:
BI 352  General Ecology (3)
GO 305  Environmental Geoscience (3)
UI 360  Recycling & Waste Mgt (3)
UI 372  Earthquakes & Society (3)

Choose 6 Hours From:
CS 177  Progr for Scientists/Engrs (3)
EP xxx
PH xxx

Choose one option:

PHYSICS EDUCATION OPTION:
CH 181  Introductory Chemistry I (5)
OR
CH 185  General Chemistry (5)
AND
CH 186  Found of Inorganic Chem (3)

Choose 3 Hours From:
BS 108  Biology for Living (3)
BS 218  Bio Science: A Process Approach (3)

Choose 3 Hours From:
GO 110  Physical Geology (3)
GO 220  Meteorology (3)
GO 320  Oceanography (3)
UI 318  Earth Sci: A Process Approach (3)

Choose 3 hours at the 300-599 level:
EP xxx
PH xxx

SOCIAL STUDIES EDUCATION

51 hour major – No minor required
(A grade of ‘C’ or better is required in all courses within the major.)

Required courses:
AN 181  Intro to Cultural Anthropology (3)
EC 101  Economic Problems and Policies (3)
GG 150  Peoples and Places of the World (3)
OR
UI 308  Cult & Phy Landscapes of the World (3)
EH 101  Early European Civ (3)
EH 103  Modern European Civ (3)
GH 315  Historiography (3)
PS 103  U.S. Political Systems (3)
PY 102  Introduction to Psychology (3)
SS 200  Intro to Tchng Social Studies/Sec Schl (3)
SS 300  Constr Curr/Sec Social Studies (3)
US 105  American History I (3)
US 107  American History II (3)
WH 305  World Civilizations (3)

Choose 6 hours:
Any US history courses (300-599) (3)
UI 313  The African American Experience (3)
UI 446  The Civil Rights Movement (3)
UI 457  African American Slavery (3)
UI 508  Afr Am during the Era of Segreg & Jim Crow (3)

Choose 3 hours:
Any EH course (300-599) (3)
Choose 3 hours:
Any WH course (3)

Choose 3 hours:
PS310 Government & Politics of the American States (3)
PS335 American Foreign Policy (3)
PS360 Political Parties & Voting Behaviors (3)
PS365 Legislative Process (3)
PS390 American Judicial System (3)
PS490 Constitutional Law (3)
UI357 Early American Political Thought (3)

SPANISH EDUCATION

36 Hour Major - No Minor Required
(A grade of ‘C’ or better is required in all courses within the major.)

Required Courses:
SN 001 Spanish Exit Exam (0)
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)
SN 300 Spanish American Culture (3)
SN 306 Civilization of Spain (3)

Choose 6 Hours From:
SN 400 Spanish American Culture (3)
SN 403 Survey of Spanish Literature I (3)
SN 404 Survey of Spanish Literature II (3)
SN 430 Spanish American Literature I (3)
SN 435 Spanish American Literature II (3)

Choose 6 Hours From:
SN 301 Intermediate Spanish Composition (3)
SN 305 Intermediate Spanish Conversation (3)
SN 316 Commercial Spanish (3)
SN 330 Spanish Grammar (3)

Choose 6 Hours FL/SN Electives (300-500 level)

TECHNOLOGY AND ENGINEERING EDUCATION

44 Hour Major - No Minor Required
15 hours of the major need to be 300-500 level courses
(A grade of ‘C’ or better is required in all courses within the major.)

Required Courses:
AG 303 Agricultural Mech (3)
CH 181 Basic Prin of Chem (5)
CM 143 Construction Methods & Mats I (3)
ET 160 Basic Electricity & Electronics (3)
ET 304 Fund of Programmable Logic Cntrls (3)
GM 180 Intro to Tech Graphics (3)
IE 401 Technology Education Mgt (3)
IE 593 Princ/Pract of Technical Subjects (3)
IE 596 Found of Career & Tech Educ (3)
MA 134 College Algebra (3)
MN 120 Fund of Engr Design Processes (3)
MN 221 Solid Modeling & Rapid Prototyping (3)

Choose 6 Hours From:
CM 226 Resid Arch Drft & Design (3)
CM 243 Constr Methods & Materials II (3)
CM 320 Construction Cost Estimating (3)
ET 365 Industrial Electrical Power (3)
ET 426 Sustainable Energy Tech (3)
GM 200 Vector Bitmapped Graph/Industry (3)
IE 590 Assess in Career & Tech Educ (3)
IE 592 Select/Organization of Subject Matter (3)
IE 597 Coordination of Cooperative Educ (3)
MN 170 Engr Mats & Testing (3)
MN 203 Indust Mats & Processes I (3)
MN 324 Mechanical Design Processes (3)

BACHELOR OF SCIENCE IN FAMILY AND CONSUMER SCIENCES EDUCATION DEGREE

For students planning to teach occupational family and consumer sciences or consumer education in junior high or secondary schools.

A minimum grade of “C” is required in each course in the content major and in each professional education course.

FAMILY AND CONSUMER SCIENCES EDUCATION

36 Hour Major - No Minor Required

Required Courses:
CF 102 Relationships in the 21st Century (3)
CF 120 The Child: Devel/Conception to Adolsc (3)
CF 209 Intro to Family Systems (3)
CF 402 Relationships of Commitment (3)
CF 430 Parent Child Interaction (3)
FA 207 Textiles (3)

OR
FA 120 Clothing Construction (3)
FE 200 Family Resource Management (3)
FN 235 Nutrition for Health (3)
HM 205 Basic Culinary Techniques (3)
UI 340 Housing Perspectives (3)
UI 355 Consumer in the Market (3)
UI 445 Social Perspectives of Sexuality (3)
Professional Education Requirements: 49 Hours
(A minimum grade of “C” is required in each professional education course with the exception of ED280 which requires a minimum grade of B.)
ED 280  Intro to Teaching (3)
EF 400  Seminar/Educ Issues for Student Teachers (1)
EX 390  Psych & Educ of Except Child (3)
PY 222  Development of the Adolescent (3)
SE 307  Reading/ Writing in the Content Area (3)
SE 3xx  Methods of Teaching Subject Area (3)
SE 350  Pedagogy 1: Prin of Effect Teach (3)
SE 355  Field II (3)
SE 365  Pedagogy 2: Sec Schl-Interdis Mthds/ Tech (4)
SE 380  Advanced Field (3)
SE 385  Pedagogy 3: Mdl/ Sec Edu Mthds of Sec Teach (3)
SE 390  Instr Intervent/Mdl & Spec Lit Needs (3)
SE 465  Student Teaching (12)

BACHELOR OF MUSIC EDUCATION DEGREE

For students planning to teach elementary or secondary school music.

MUSIC EDUCATION

63-65 Hour Major - No Minor Required

A minimum grade of “C” is required in each course in the content major and in each professional education course.

Required Courses:
ME 001  Senior Recital (0)
ME 450  Synth of Mus Ed Method (2)
MM 101  Theories of Music in Culture (3)
MM 102  Basic Harmony & Form (3)
MM 105  Aural Skills I (1)
MM 106  Aural Skills II (1)
MM 203  Adv Harmony, Form & Counterpoint (3)
MM 204  Twentieth Century Techniques (3)
MM 207  Aural Skills III (1)
MM 208  Aural Skills IV (1)
MM 314  Instrumentation & Arranging (2)
MH 251  History & Lit of Music to 1827 (3)
MH 252  Evolution of Musical Style Since 1827 (3)
MP 1xx  Applied Music (1+1)
MP 2xx  Applied Music (1+1)
MP 3xx  Applied Music (1+1)
MP 4xx  Applied Music (1)
MU 001  Piano Proficiency (0)
MU 002  Sophomore Review (0)
MU 110  Recitals & Concerts (seven semesters) (0)
MU 151  Functional Piano I (1)
MU 152  Functional Piano II (1)
MU 253  Functional Piano III (1)
MU 254  Functional Piano IV (1)
MU 341  Basic Conducting (2)
UI 310  American Musical Experience (3)

Choose One Option:

INSTRUMENTAL (21 Hours)
ME 250  Trumpet & Horn Techniques (1)
ME 251  Trombone/Euphonium/Tuba Tech (1)
ME 252  Flute & Double Reed Techniques (1)
ME 253  Single Reed Techniques (1)
ME 260  String Techniques (1)
ME 261  Percussion Techniques (2)
ME 372  Instru Tech: Elem & Sec (3)
ME 400  Marching Band Techniques (1)
MU 220  Vocal Techniques (1)
MU 344  Conducting/ Wind Lit (2)
MU 3xx  Instrumental Ensemble (7)

VOCAL (20 Hours)
ME 373  Choral Tech: Elem & Sec (3)
ME 443  Choral Literature (2)
MP 211  Applied Piano (1+1)
MU 123  Singer’s Diction I (1)
MU 124  Singer’s Diction II (1)
MU 343  Conducting/Choral Lit (2)
MU 3xx  Choral Ensemble (7)
MU 424  Vocal Pedagogy (2)

Professional Education Requirements: 39 Hours
(A minimum grade of “C” is required in each professional education course.)
EF 400  Seminar/Educ Issues for Student Teachers (1)
EX 390  Psych & Educ of Except Child (3)
ME 222  Principles of Teaching Music (3)
ME 270  Field Experience Block II (1)
ME 272  Techniques/Teaching Reading in Music (3)
ME 371  General Music Methods: Elem & Sec (3)
ME 370  Field Experience Block III (1)
ME 465  Student Teaching (12)
PY 222  Development of the Adolescent (3)
SE 350  Pedagogy 1: Prin of Effect Teach (3)
SE 365  Pedagogy 2: Sec Schl-Interdis Mthds/ Tech (3)
SE 385  Pedagogy 3: Mdl/ Sec Edu Mthds of Sec Teach (3)
BACHELOR OF MUSIC DEGREE

Designed for students with an interest in professional careers in music.

MUSIC

79-83 Hour Major - No Minor Required
(A grade of 'C' or better is required for all courses within the major.)

Required Courses:
- MH 251 Hist & Lit of Music to 1827 (3)
- MH 252 Hist & Lit of Music from 1827 (3)
- MM 001 Aural Skills Entry Level Proficiency (0)
- MM 002 Aural Skills Exit Level Proficiency (0)
- MM 101 Theories of Music in Culture (3)
- MM 102 Basic Harmony & Form (3)
- MM 105 Aural Skills I (1)
- MM 106 Aural Skills II (1)
- MM 203 Adv Harmony, Form & Counterpoint (3)
- MM 204 Twentieth Century Techniques (3)
- MM 207 Aural Skills III (1)
- MM 208 Aural Skills IV (1)
- MM 312 Adv Form & Analysis (3)
- MU 001 Piano Proficiency (0)
- MU 002 Sophomore Review (0)
- MU 110 Recitals & Concerts (eight semesters) (0)
- MU 151 Functional Piano I (1)
- MU 152 Functional Piano II (1)
- MU 253 Functional Piano III (1)
- MU 254 Functional Piano IV (1)
- MU 300 Junior Recital (1)
- MU 341 Basic Conducting (2)
- MU 400 Senior Recital (2)
- UI 310 American Musical Experience (3)
- UI 402 Music in World Cultures (3)

Choose 3 Hours From:
- UI 315 Electronics & Computers in Music (3)*
- UI 392 The Age of Romanticism
- UI 393 The Age of Modernism (3)
- UI 394 Music & Culture: 1600-1750 (3)
- UI 396 The Age of Beethoven (3)
- UI 397 Music in Medieval & Renaissance Culture (3)

*Required for Composition Option

Choose One Option:
COMPOSITION (40 Hours)
- MP 197 Applied Music: Composition (2)
- MP 298 Applied Music: Composition (4)
- MP 399 Applied Music: Composition (6)
- MP 499 Applied Music: Composition (6)
- MP xxx Applied Music: Piano (2)
- MU 299 Chamber Music (2)
- MU 430 Pedagogy: Applied Area (2)
- MU 432 Literature: Applied Area (2)
- MU xxx Major Ensemble (8)
- MU xxx Music Electives MU 300 or above (6)

Additional Requirement:
xx xxx 6 Hours in any foreign language offered by Southeast

INSTRUMENTAL PERFORMANCE (36 Hours)
- MP 1xx Applied Music: Instrumental (1+1)
- MP 2xx Applied Music: Instrumental (2+2)
- MP 3xx Applied Music: Instrumental (3+3)
- MP 4xx Applied Music: Instrumental (3+3)
- MU 299 Chamber Music (4)
- MU 3xx Instrumental Ensemble (8)
- MU 430 Pedagogy: Applied Area (2)
- MU 432 Literature: Applied Area (2)
- MU xxx Music Electives MU 300 or above (2)

Additional Requirement:
xx xxx 6 Hours in any foreign language offered by Southeast

VOCAL PERFORMANCE (38 Hours)
- MP 101 Applied Music: Voice (1+1)
- MP 202 Applied Music: Voice (2+2)
- MP 305 Applied Music: Voice (3+3)
- MP 403 Applied Music: Voice (3+3)
- MU 123 Singer's Diction I (1)
- MU 124 Singer's Diction II (1)
- MU 3xx Vocal Ensemble (8)
- MU 424 Vocal Pedagogy (2)
- OR
- MU 430 Pedagogy: Applied Area (2)
- MU 432 Literature: Applied Area (2)
- MU xxx Music Elective MU 299 or above (6)

Additional Requirement:
xx xxx 6 Hours in either French or German

BACHELOR OF SCIENCE IN NURSING

The Bachelor of Science in Nursing (BSN) degree may be taken as a (1) professional program in nursing that prepares graduates to meet all requirements for making application to the Missouri State (or other state) Board of Nursing to write the national examination for licensure as a registered nurse (RN) and (2) baccalaureate completion (RN-BSN) program in nursing after licensure as a registered nurse.

See Admission to Nursing Programs criteria under Admissions, page 14. To be retained in the nursing program students must maintain at least a cumulative GPA of 2.0 in academic work at the University. When
a student is enrolled in NC and NS prefix courses with the same course number, both courses must be successfully completed in order for the student to continue in the program.

Students who receive a grade below a ‘C’ in any NS prefix course or an ‘F’ in any NC prefix course are not eligible to continue in the program, and must apply for readmission to the Department of Nursing Student Affairs Committee. Any student with a second failure in any NC or NS course is not eligible for readmission. See BSN Student Handbook for specific instructions for retaking an NC or NS prefix course or contact the Department of Nursing.

NURSING

59 Hour Major - No Minor Required
(A grade of ‘C’ or better is required in all courses within the major.)

Required Courses (BSN):
NC 371 Fundamentals of Nursing Clinical (3)
NC 372 Nursing Assessment Clinical (1)
NC 387 Adult Health I Clinical (2)
NC 388 Maternal-Newborn Nursing Clinical (1)
NC 389 Mental Health Nursing Clinical (1)
NC 487 Adult Health II Clinical (2)
NC 488 Pediatric Nursing Clinical (1)
NC 489 Nursing of the Elderly Clinical (1)
NC 491 Transitions in Nursing Clinical (2)
NC 492 Community Health Nursing Clinical (2)
NC 498 Nursing Practicum Clinical (3)
NS 371 Fundamentals of Nursing (3)
NS 372 Nursing Assessment (2)
NS 373 Pharmacology (3)
NS 374 Pathophysiology (3)
NS 381 Nursing Research (2)
NS 387 Adult Health I (3)
NS 388 Maternal-Newborn Nursing (3)
NS 389 Mental Health Nursing (3)
NS 487 Adult Health II (3)
NS 488 Pediatric Nursing (3)
NS 489 Nursing of the Elderly (3)
NS 491 Transitions in Nursing (3)
NS 492 Community Health Nursing (3)
NS 498 Nursing Practicum (1)
NS 499 NCLEX Prep (2)

Required Support Courses:
(Some courses may fulfill University Studies requirements. A grade of ‘C’ or better is required in each support course.)
BS 113 Anatomy & Physiology I (4)
BS 114 Anatomy & Physiology II (4)
BS 240 Microorg/Human Hosts (3)
CH 180 Chemistry in Our World (3)

FN 235 Nutrition for Health (3)*
MA 155 Statistical Reasoning (3)
PY 220 Psych Dev Across Lifespan (3)
UI 412 American Health Care System (3)

Required Nursing Courses (RN-BSN):
NS 380 Holistic Assessment & Diagnosis (4)
NS 385 Research in Professional Practice (2)
NS 386 Prof Practice: Community Health Nrsg (6)
NS 390 Framework for Professional Nursing (4)
NS 480 Prof Practice: Leadership & Mgmt (6)
NS 483 Prof Practice: Care of the Frail Elderly (3)

For required support courses and advanced placement credit information, contact the Department of Nursing.

*RN-BSN students may take any Living Systems course.

ASSOCIATE DEGREES

The following statements pertain to all associate degrees:

• A minimum of 20 hours must be completed in residence at Southeast.
• 15 of the final 30 credits earned for an associate’s degree that the institution awards must be earned at Southeast.
• The student’s last term must be completed in residence at Southeast, except that, in the case where six or fewer hours are needed to meet the total number of hours required for graduation, they may be taken from another accredited college or university, or by correspondence or extension, subject to the rules governing extension courses and transfer of credit.
• A minimum cumulative GPA of 2.0 is required for graduation.
• A minimum 2.0 GPA for all of the degree credit attempted at Southeast is required in the major and overall.
• The student must pass any required developmental courses or score at the appropriate levels on placement tests to have the courses waived.

Additionally, the following statements pertain to all associate of arts degrees:

• A minimum of 64 hours of degree credit (courses numbered 100-599) is required for graduation.
• The University Studies Program, consisting of at least 21 hours, is required.
ASSOCIATE OF ARTS IN CHILD CARE AND GUIDANCE

Granted upon completion of a two-year program in human environmental studies and related disciplines.

Minimum Degree requirements 72 Hours
Required Courses 39 Hours
Additional Requirements 33 Hours

Required Courses:
CF 102 Relationships in the 21st Century (3)
CF 120 The Child: Dev/Concept to Adolsc (3)
CF 124 Hlth/Nutr/Safety Child (3)
CF 200 Constructive Guidance & Discipline (3)
CF 209 Intro to Family Systems (3)
CF 215 Obsrv: Perception & Process (3)
CF 233 Creative Thought & Express in Children (3)
CF 250 Family Child Care: Feasibility Mgmt (3)
CF 280 Learning Theory/App: Preschool (3)
CF 285 Learn Theory/App: Infants & Toddlers (3)
CF 300 Parent Education (3)
CF 310 School Age Child Care (3)
EX 390 Psych & Educ of the Except Child (3)

Additional Requirements:
BS 103 Human Biology (3)*
EN 100 English Composition I (3)*
EN 140 Rhetoric & Critical Thinking (3)*
FE 200 Family Financial Mgmt (3)*
LI 243 Children's Literature (3)*
MA 128 Numbers & Operations for Educators (4)*
PH 218 Physical Science: A Process Approach (3)*
PS 103 U.S. Political Systems (3)
SC 105 Fund of Oral Communications (3)

*PH 120 required for Automated Manufacturing and Microcomputer Systems Options. PH 121 required for Microcomputer Systems Option.

NOTE: MA 106 Intermediate Algebra is required unless waived by appropriate score on ACT Math subtest.

ASSOCIATE OF APPLIED SCIENCE IN COMPUTER TECHNOLOGY

The purpose of the program is to prepare individuals for entry-level positions in industry.

68-70 Hours Required
Core Requirements: 35-37 Hours
EN 100 English Composition I (3)
EN 140 Rhetoric & Critical Thinking (3)
IM 102 Technical Communications (3)
IM 301 Industrial Safety Supervision (3)
IM 419 Industrial Supervision (3)
MA 133 Plane Trigonometry (3)
MA 134 College Algebra (3)
MN 260 Tech Computer Programming (3)
PH 120 Introductory Physics I (5)*
OR
PH 106 Physical Concepts (3)*
PH 121 Introductory Physics II (5)
OR
CH 181 Basic Principles of Chemistry (5)*
PS 103 U.S. Political Systems (3)
SC 105 Fund of Oral Communications (3)

Choose One 33 Hour Option:
AUTOMATED MANUFACTURING
ET 160 Basic Electricity & Electronics (3)
ET 304 Intro to PLCs (3)
IM 311 Statistical Process Control (3)
MN 120 Fund of Engr Design Processes (3)
MN 170 Industrial Materials & Testing (3)
MN 203 Industrial Materials & Processes I (3)
MN 221 Solid Modeling & Rapid Prototyping (3)
MN 304 Industrial Materials & Processes II (3)
MN 324 Mechanical Design Processes (3)
MN 356 Robotics (3)
MN 412 Advanced Manufacturing System (3)

MICROCOMPUTER SYSTEMS
ET 160 Basic Electricity & Electronics (3)
ET 245 Logic Circuits (3)
TN 255 Microcomputer Maint & Trblshlng (3)
TN 275 Intro to Networks (3)
TN 375 Routing/Switching Essentials (3)
TN 395 Server Maint & Trblshlng (3)
TN 425 Wireless Comm & Mobile Data Networks (3)
TN 475 Scaling Networks (3)
TN 563 LAN Switching (3)

Choose 6 hours from:
CY 201 Intro to Cybersecurity (3)
IM 317 Industrial Internship (3)
TN 435 Network Security (3)

TECHNICAL COMPUTER GRAPHICS
GM 180 Intro to Technical Graphics (3)
GM 200 Vector& Bitmapped Graphics for Industry (3)
GM 282 Vector Graphics (3)
GM 320 Graphic User Interface Design (3)
GM 380 3D Modeling & Animation Prod (3)
GM 385 HDSLR Video Capture (3)
Associate Degrees / Pre-Professional Programs
Southeast Missouri State University 2015-16

GM 386 Interactive Multimedia & Animation (3)  
GM 490 Advanced Graphics Projects (3)  
PG 284 Photography Fundamentals (3)  
PG 285 Commercial Photographic Lighting (3)  
TN 255 Microcomputer Maint & Troubleshooting (3)  

PRE-PROFESSIONAL PROGRAMS

Pre-professional programs available at the University include pre-architecture, pre-chiropractic, pre-dental, pre-engineering, pre-law, pre-medical, pre-optometry, pre-pharmaceutical, pre-physical therapy and pre-veterinary.

Pre-Architecture Curriculum

The purpose of the one-year pre-professional program is to provide preparatory educational experiences for those seeking to transfer to another university for the completion of a professionally accredited degree in architecture, interior architecture or landscape architecture. The coursework provides an important opportunity for students to explore their interests and level of commitment before applying to an architecture school. The courses are meant as a foundation for students interested in an architecture program. Students will need to work closely with the school in which they plan to transfer to ensure optimal transferability of coursework. (Students who decide not to transfer could apply some courses from the pre-architecture curriculum to the Technology Management: Construction Management and Design option.)

Pre-Chiropractic Curriculum

It is possible to gain preparation for chiropractic school while pursuing any academic major in the university. The Biology: Biomedical Sciences option is designed specifically for students who want to become chiropractors. However, students in other majors may choose pre-chiropractic as a second major, with the understanding this does not lead to a 4 year degree. The pre-chiropractic curriculum contains a preponderance of biology and chemistry coursework required by chiropractic schools. Students should see the pre-chiropractic advisor during their first semester at Southeast. There are a limited number of chiropractic schools in the United States and the entrance requirements are quite similar, however there are slight variations. Planning for the variety of requirements is done in consultation with the pre-chiropractic advisor in the Department of Biology.

Pre-Engineering Curriculum

The two-year pre-engineering curriculum is designed so that students can receive a degree from an engineering school after an additional two years of study. The curriculum is closely articulated with programs at Missouri University of Science & Technology in Rolla, MO. Transfer brochures have been prepared in cooperation with the university and are available to students. Students planning to attend another engineering school should consult the catalog from that institution and arrange their programs with a pre-engineering advisor.

Students expecting to enroll in the pre-engineering program should have a mathematics background in high school of at least one year of geometry, two years of algebra, and one year of pre-calculus mathematics which includes trigonometry. If these requirements are not met it will be necessary to correct any deficiencies upon entering the University which may delay graduation.

Students should complete from 64 to 68 credit hours prior to transferring if they expect to complete an engineering degree in four years. This includes not only required courses in mathematics, physics, and engineering, but also courses in the humanities and the social sciences. Students who maintain a high academic
standing will be eligible for transfer scholarships. An advisor in the Department of Physics and Engineering Physics should be consulted for details regarding the pre-engineering program.

**Pre-Law Curriculum**

Students interested in attending law school after graduation should understand that there is no single pre-law curriculum. Rigidly structured “pre-law majors” are in fact strongly discouraged by schools of law. A wide variety of undergraduate majors are suitable as law school preparation, provided that they have a strong academic content. Courses that develop a student’s ability to think logically and to express thoughts lucidly in written form are strongly suggested.

While there is no specific “pre-law major”, the Department of Political Science, Philosophy, and Religion provides pre-law advising to those students, regardless of actual major, who are considering a career in law. Such advising includes recommending to students various schools of law which may be most appropriate for them, assisting students with the law school application process (including the Law School Admission Test), and recommending undergraduate preparation for the subsequent law school experience.

**Pre-Medical Curriculum**

It is possible to gain preparation for medical school while pursuing any academic major in the university. The Biology: Biomedical Sciences option is designed specifically for students who want to become physicians. However, students in other majors may choose pre-medicine as a second major, with the understanding this does not lead to a 4 year degree. The pre-medicine curriculum contains a preponderance of biology and chemistry coursework required by medical schools and preparation for the MCAT. Students should see the pre-medical advisor during their first semester at Southeast. There are more than 120 M.D. schools and 20 D.O. schools in United States and the entrance requirements are quite similar, however there are slight variations. Planning for the variety of requirements is done in consultation with the pre-medical advisor in the Department of Biology.

**Pre-Optometry Curriculum**

It is possible to gain preparation for optometry school while pursuing any academic major in the university. The Biology: Biomedical Sciences option is designed specifically for students who want to become optometrists. However, students in other majors may choose pre-optometry as a second major, with the understanding this does not lead to a 4 year degree. The pre-optometry curriculum contains a preponderance of biology and chemistry coursework required by medical schools and preparation for the OAT. Students should see the pre-optometry advisor during their first semester at Southeast. There are only 17 optometry schools in United States and the entrance requirements are quite similar, however there are slight variations. Planning for the variety of requirements is done in consultation with the pre-optometry advisor in the Department of Biology.

**Pre-Physical Therapy Curriculum**

Physical therapy programs require completion of a bachelor's degree prior to admission. Students preparing for application to such programs must declare a major at Southeast in addition to declaring pre-physical therapy. Health Management, Biology, Chemistry, Recreation and Human Environmental Studies/Dietetics option majors are particularly complementary to physical therapy preparation as they include many of the courses that physical therapy programs require for admission. Required courses commonly include biology, chemistry, mathematics, physics, psychology and English.

Because each physical therapy program designates its own requirements for admission, students should pay close attention to the prerequisites of schools where they plan to apply. Students pursuing pre-physical therapy should contact the Department of Health, Human Performance and Recreation as early as possible in the enrollment process.

**Pre-Pharmacy Curriculum**

Since there are more than 70 schools of pharmacy in the United States, pre-pharmacy should be advised according to the bulletin(s) of the school(s) to which the student is considering transfer. While each program is unique, most programs are either one or two years in length, and usually require chemistry, biology, physics, mathematics, and English, in addition to certain specified courses in other fields. Students interested in pre-pharmacy should contact Dr. Philip Crawford, the chairperson of the Department of Chemistry, as early as possible in the enrollment process.
Pre-Veterinary Curriculum

Students preparing for application to a professional Veterinary Medicine Program for completion of a Doctor of Veterinary Medicine (D.V.M.) degree must enroll in a pre-professional program.

The minimum requirements for admission to most professional programs include 64 hours of coursework (the pre-professional program), completion of the MCAT or GRE and acceptance by the College of Veterinary Medicine to which the student makes application.

Specific subjects required in the pre-professional program include English, college algebra, biology, chemistry (inorganic, organic and biochemistry), physics, and certain University Studies courses. Courses in animal science are also required, dependent on school attending. Students should consult the current catalog of the College of Veterinary Medicine they plan to attend and develop their program in conference with the Pre-Veterinary Medicine advisor.

Students enrolled in the pre-professional program should plan a four-year degree program along with the Pre-Veterinary Medicine program. Students enrolling at Southeast Missouri State University will find majors in Agriculture, Chemistry, or Biology particularly complementary to the D.V.M. program. For more information, contact the College of Science, Technology and Agriculture Advising Center.