

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 30 hours of senior college courses (300-599) must be completed after completion of 45 hours.
- Required completion of Student Transitions Career Proficiency Checks CL 001, CL 002, CL 003, and CL 004.
- Required completion of WP 003 and, at the senior level, the California Critical Thinking Skills Test.
- 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.
- 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.
- 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, the Bachelor of Music Education, the major in Communication Disorders, the major in Mass Communication and the major in Interdisciplinary Studies, which require a 2.5 GPA for graduation 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 Mass Communication major and the Health Management 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 and BFA-Performing Arts major and all Music majors which require a 3.0 GPA.

- 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 EN 099 or EN 110; and MA 095 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 Schools of Polytechnic Studies and 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)

Dempster Hall, room 123
Telephone (573) 651-5090

College of Education (Ed)

Scully Building, room 304
Telephone (573) 651-2412

College of Health & Human Services (H&HS)

Academic Hall, room 104
Telephone (573) 651-2015

College of Liberal Arts (Lib Arts)

Academic Hall, room 104
Telephone (573) 651-2007

College of Science & Mathematics (Sci&Math)

Rhodes Hall, room 102D
Telephone (573) 651-2173

School of Polytechnic Studies (Polytech)

Seabaugh Polytechnic Building, room 301
Telephone (573) 986-6746

School of University Studies

Academic Hall, room 317
Telephone (573) 986-7328

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

Degree	Page
Bachelor of Arts (BA)	77
Bachelor of Fine Arts (BFA)	83
Bachelor of General Studies (BGS)	85
Bachelor of Science (BS)	85
Bachelor of Science in Bus Admin (BSBA)	103
Bachelor of Science in Education (BSED)	106
Bachelor of Family & Consumer Sciences Education (BFCSE)	115
Bachelor of Music Education (BME)	115
Bachelor of Music (BM)	117
Bachelor of Science in Nursing (BSN)	117
Associate degrees (AA, AAS)	118

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

MAJOR/DEGREE	DEPARTMENT/COLLEGE
Accounting/BSBA	Acct & MIS/Bus
Administrative Systems Mgt/BSBA	Acct & MIS/Bus
Advertising	(see Mass Communication)
Agribusiness/BS	Agriculture/Polytech
Agriculture Industry	
Animal Science	
Horticulture	
Plant & Soil Science	
Animal Science	(see Agribusiness)
Anthropology/BA	For Lang & Anthro/Lib Arts
Art/BA, BFA, BSED	Art/Lib Arts
Athletic Training/BS	Health, Hum Perf & Rec/H&HS
Biology/BS, BSED	Biology/Sci&Math
Business & Marketing Education/BSED	Acct & MIS/Bus
Chemistry/BA, BS, BSED	Chemistry/Sci&Math
Child Care & Guidance/AA	Human Envir. Studies/H&HS
Child Development	(see Human Envir. Studies)
Communication Disorders/BS	Comm Disorders/H&HS
Communication Studies/BA	Communication/Lib Arts
Computer Information Systems/BS	Computer Sci/Sci&Math
Computer Science/BS	Computer Sci/Sci&Math
Computer Technology/AAS	Industrial Technology/Polytech
Corporate Communication/BS	Communication/Lib Arts
Criminal Justice/BS	Crim Justice & Sociology/H&HS
Corrections	
Law Enforcement	
Security Management	
Dietetics	(see Human Envir. Studies)
Early Childhood Educ/BSED	Erly,Elem & Special Educ/Ed
Economics/BS	Economics & Finance/Bus
Economics/BSBA	Economics & Finance /Bus
Business Economics	
Financial Economics	
Elementary Education/BSED	Erly,Elem & Special Educ/Ed
Engineering Physics/BS	Physics & Engr Physics/Sci&Math
Applied Physics & Engineering	
Computer Applications in Physics & Engineering	
Engineering Technology/BS	Industrial Technology/Polytech

Electrical & Control Manufacturing Systems	
English/BA, BSED	English/Lib Arts
Literature	
Writing	
Environmental Science/BS	Environmental Sci/Sci&Math
Exceptional Child Educ/BSED	Erly, Elem & Special Educ/Ed
Family & Consumer Sciences Educ/FCSE	Human Envir. Studies/H&HS
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/BA, BSED	For Lang & Anthro/Lib Arts
General Studies/BGS	College Advising Center/Lib Arts
German/BA, BSED	For Lang & Anthro/Lib Arts
Health Management/BS	Health, Hum Perf & Rec/H&HS
Exercise Science	
Health Promotion	
Historic Preservation/BS	History/Lib Arts
History/BA	History/Lib Arts
Hospitality Mgt/BS	Human Envir. Studies/H&HS
Human Environmental Studies/BS	Human Envir. Studies/H&HS
Child Development	
Dietetics	
Family Studies	
Fashion Merchandising	
Housing & Interior Design	
Horticulture	(see Agribusiness)
Housing/Interior Design	(see Human Envir. Studies)
Human Resource Management	(See Management)
Industrial Management	(see Industrial Technology)
Industrial Education/BSED	Industrial Technology/Polytech
Industrial Technology/BS	Industrial Technology/Polytech
Construction Management and Design	
Facilities Management	
Industrial Management	
Technical Graphics	
Technology	
Telecommunication & Computer Networking	
Interdisciplinary Studies/BS	School of University Studies
International Business/BSBA	Mgmt & Mktg/Bus
Journalism	(see Mass Communication)
Management/BSBA	Mgmt & Mktg/Bus
Human Resource Management	
Organizational Leadership	
Management Info. Systems/BSBA	Acct & MIS/Bus
Marketing/BSBA	Mgmt & Mktg/Bus
Integrated Marketing Communication	
Marketing Management	
Mass Communication	Communication/Lib Arts
Advertising/BS	
Journalism/BA	
Public Relations/BS	
Radio/BS	
Television & Film/BS	
Mathematics/BS	Mathematics/Sci&Math
Applied Mathematics & Statistics	
Pure Mathematics	
Mathematics/BSED	Mathematics/Sci&Math
Medical Technology/BS	Chemistry/Sci&Math
Middle School Education	Middle & Secondary Ed/Ed
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
Organizational Administration/BSBA	Harrison College of Business
Organizational Leadership.....	(See Management)
Performing Arts/BFA.....	Theatre & Dance/Lib Arts
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/Sci&Math
Political Science/BA, BS	Pol Sci, Phil & Religion/Lib Arts
Psychology/BS	Psychology/Lib Arts
Public Relations.....	(see Mass Communication)
Radio.....	(see Mass Communication)
Recreation/BS.....	Health, Hum Perf & Rec/H&HS
Secondary Education	(see specific major)
Social Studies/BSED.....	History/Lib Arts
Social Work/BS	Social Work/H&HS
Spanish/BA, BSED	For Lang & Anthropology/Lib Arts
Speech & Theatre Education/BSED.....	Theatre & Dance/Lib Arts
Sports Management/BS.....	Health, Hum Perf & Rec/H&HS
Technical Graphics.....	(see Industrial Technology)
Telecomm & Computer Networking	(see Industrial Technology)
Theatre & Dance/BA.....	Theatre & Dance/Lib Arts
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:

Anthropology

Art

Chemistry

Options: Chemistry

DNA Analysis

Forensic Science

Communication Studies

English

Options: Literature

Writing

French

German

History

Mass Communication

Option: Journalism

Music

Philosophy

Political Science

Spanish

Theatre & Dance

ANTHROPOLOGY

36 Hour Major - Minor Required Required Courses:

AN 101	Observing Other Cultures (3)
AN 180	Introductory Anthropology: Physical Anthropology & Archaeology (3)
AN 181	Intro to Cultural Anthropology (3)
AN 317	Ethnographic Field Methods (3)
AN 341	Intro Linguistic Anthropology (3)
AN 380	Human Evolution & Adaptation (3)
AN 382	Archaeology: Method & Theory (3)
AN 493	General Anthropological Theory (3)
CJ 526/MA 223/PY 271/SO 242/SW 242	Statistics Course (3)

Choose 9 Hours From:

AN 319	Archaeology Lab (3)
AN 355	Special Topics in Anthropology (3)
BI 300	Intro to Evolutionary Biology (3)
BI 332	General Ecology (3)
BI 381	Molecular Genetics (3)
EN 378	Grammars of English (3)
EN 486	Sociolinguistics (3)
FR 306	Contemporary France (3)
GN 320	German Culture and Civilization (3)
GO 340	Remote Sensing (3)
HP 410	Museum Studies (3)
PS 355	Less Developed Nations (3)
SN 300	Spanish American Culture (3)
SO 305	American Minority Relations (3)
UI 304	History and Culture of West Africa (3)
UI 308	Cultural and Physical Landscapes (3)
UI 326	Australian Culture (3)
UI 336	Religion in America (3)
UI 339	North American Indians (3)
UI 344	Plants and Humanity (3)
UI 345	Nonverbal Communication (3)
UI 350	Middle East Politics (3)
UI 352	Medical Ethics (3)
UI 362	Contemporary French Culture (3)
UI 375	European Film (3)
UI 401	American Cultural Landscapes (3)
UI 402	Music in World Cultures (3)
UI 501	Principles of Language (3)
WH 440	Modern Middle East (3)

Additional Requirement:

xx xxx 12 Hours in One or Two Foreign Languages

ART**36-57 Hour Major
Minor Required***(see also Bachelor of Fine Arts degree)***Required Courses:**

- AR 001 Freshman Core 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 150 Structural Figure Drawing (3)
- AR 201 Color Composition (3)
- AR 325 Painting (3)
- AR 332 Sculpture I (3)

**Choose 6 Hours Additional Art History Courses
(300-500 level)**

**Choose up to 21 hours of art/art history electives.
Every year, two pieces of artwork must be entered
in the Juried Student Assessment Exhibition.**

CHEMISTRY**30 Hour Major****Required Core Courses**

- CH 185 General Chemistry I (5)
- CH 186 General Chemistry II (3)
- CH 187 Qualitative Analysis (2)
- CH 271 Quantitative Analysis (4)
- CH 310 Introduction to Physical Chemistry (5)
- CH 341 Organic Chemistry I (4)
- CH 342 Organic Chemistry Laboratory I (1)
- CH 498 Professional Presentation in Chemistry (1)
- 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:**CHEMISTRY OPTION – minor required**

Choose 2 Hours of Chemistry Electives (300 level
or higher)

**DNA ANALYSIS OPTION – no minor
required**

- 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 420 Forensic Chemistry (4)

- MA 423 Stat Analysis for Forensic Sci (3)
- UI 331 Biochemistry I (3)

**FORENSIC SCIENCE OPTION – no minor
required**

- CH 343 Organic Chemistry II (3)
- CH 420 Forensic Chemistry (4)
- CJ 100 Introduction to Criminal Justice (3)
- CJ 350 Evidence Collection and Preservation (3)
- FS 550 Crime Laboratory I: Microscopy (2)
- FS 550 Crime Laboratory II: Blood and Fluids (2)

Take one of the following courses:

- CH 575 Chemical Instrumentation (4)

OR

- EV 460 Introduction to Toxicology (3)

COMMUNICATION STUDIES**30 Hour Major - Minor Required
Required Courses:**

- 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 160 Intercollegiate Debate (2)
- SC 161 Intercollegiate Debate (2)
- SC 215 Intercultural Communication (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 400 Advanced Debate (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 505 Semnr/Criticism Amer Pub Address (3)
- SC 510 Leadership & Team Building (3)
- SC 560 Organizational Communication (3)
- UI 301 Managerial Communication (3)
- UI 423 Political Communication (3)
- UI 425 Persuasion (3)

ENGLISH

36 Hour Major - Minor Required

Required Courses:

Choose 6 Hours From:

- EN 201 Writing About Literature (3)
- EN 275 Intro to Creative Writing* (3)
- EN 376 Advanced Composition (3)

**Required for Writing option*

Choose 9 Hours From:

- LI 260 English Lit I (3)
- LI 261 English Lit II (3)
- LI 270 American Lit I (3)
- LI 271 American Lit II (3)

Choose 3 Hours From:

- LI 311 World Literature I (3)
- LI 312 World Literature II (3)

Choose 3 Hours From:

- 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

Choose 3 Hours From:

- 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)

Choose 3 Hours From:

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

Choose 6 Hours From:

- LI 320 African American Writers (3)
- LI 421 Cross-Cultural Amer Voices (3)
- LI 565 Southern Literature (3)
- LI 568 19th Century American Novel (3)
- LI 570 Modern/Contemp American Novel (3)
- LI 571 Contemporary American Poetry (3)
- LI 576 Cyberpunk Fiction (3)

Choose 3 Hours From:

- LI 510 Literature & the Bible (3)
- LI 572 The Modern Essay (3)
- LI 574 Australian Literature (3)
- LI 587 Women and Madness (3)
- UI 332 Images of Women in Literature (3)

WRITING OPTION

Choose 3 Hours From:

- EN 376 Advanced Composition*
- EN 550 Style in Writing (3)
- LI 572 The Modern Essay (3)

**Unless taken in the core*

Choose 3 Hours From:

- LI 421 Cross-Cultural Amer Voices (3)
- LI 542 Literature for the Young Adult (3)
- LI 565 Southern Literature (3)
- LI 570 Modern/Contemp American Novel (3)
- LI 571 Contemporary American Poetry (3)
- LI 576 Cyberpunk Fiction (3)

Choose 3 Hours From:

- EN 301 Writing for Science & Technology (3)
- EN 311 Literary Manuscript Editing Practicum (3)
- EN 435 Internship in English (3)
- LI 301 Small Press Publishing (3)

Choose 3 Hours From:

- 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 Portfolio of Student Writing (All Options)
- xx xxx 9 Hours in One or Two Foreign Languages (All Options)

OR

- xx xxx 6 Hours in One Foreign Language

AND

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*

FRENCH

36 Hour Major - Minor Required

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:

- FL 311 Survey of FR, GN & SN Lit (3)
 FR 311 Survey of French Literature II (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 of FL/FR Electives (300-500 level)
Additional Requirement:****Choose 3 Hours From:**

- EH 366 Age of French Rev & Napoleon (3)
 EH 370 Europe in the 20th Century (3)
 EH 514 History of Modern France (3)
 FL 205 Art of French Cinema (3)
 GG 170 European Peoples & Civilization (3)
 UI 362 Contemporary French Culture (3)
 UI 375 European Film (3)
 WH 103 Modern European Civilization (3)

GERMAN**36 Hour Major - Minor Required****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:

- FL 311 Survey of FR, GN & SN Lit (3)
 GN 310 Survey of German Literature I (3)
 GN 311 Survey of German Literature II (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 9 Hours of FL/GN Electives (300-500 level)**Additional Requirement:****Choose 3 Hours From:**

- AN 101 Observing Other Cultures (3)
 AN 181 Intro to Cultural Anthropology (3)
 AN 341 Intro to Linguistic Anthropology (3)
 AN 390 European Prehistory (3)

- EH 370 Europe in the 20th Century (3)
 EH 516 History of Modern Germany (3)
 EH 527 Intellectual History of Europe (3)
 GG 170 European Peoples & Civilization (3)
 UI 375 European Film (3)
 WH 103 Modern European Civ (3)

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 Requirement:**

- xx xxx 6 Hours in ONE Foreign Language

Choose one of the following options:

- xx xxx 6 Hours in Foreign Language
 PY 271 Research Design and Analysis I (3)

AND

- PY 370 Research Design and Analysis II (3)
 MA 134 College Algebra (3)

AND

- MA 223 Elementary Prob & Statistics (3)

OR

- CS 120 Intro to Computer Science (3)

OR

- SO 242 Statistics for Social Scientists (3)

MASS COMMUNICATION:**JOURNALISM OPTION****36 Hour Major - Minor Required**

(A grade of 'C' or better is required for all courses within the major except MC 486 and MC 496 which are credit/no credit courses.)

Required Courses:

- MC 101 Mass Communication and Society (3)
 MC 201 Writing for the Mass Media (3)
 MC 301 Mass Communication Theory & Research (3)
 MC 320 Reporting (3)
 MC 322 Publication Editing & Production (3)

- MC 401 Communication Law (3)
 MC 428 Editorial Page (3)
 MC 486 Internship in Mass Communication (3)

OR

- MC 496 Practicum in Mass Comm (3)
 MC xxx Mass Communication electives (6)

Choose two of the following:

- MC 324 Feature Writing (3)
 MC 425 Public Affairs Reporting (3)
 MC 426 Sportswriting (3)
 MC 346 Electronic New Gathering (3)

Additional Requirements:

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

NOTE: Of the 83 hours required outside of Mass Communication, 68 hours must be from traditional Arts and Sciences courses.

**A grade of 'C' or better is required in MA 155 and UI 382.*

MUSIC

50-52 Hour Major - Minor Required

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

Required courses for Instrumental & Vocal Options:

- 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)
 MH 251 History & Lit of Music to 1827 (3)
 MH 252 Evolution of Musical Style Since 1827 (3)
 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 Course for Vocal

Option:

- MU 114 Singer's Diction (2)

Additional Requirement for all BA Music majors:

- 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 230 American Public Policy (3)
 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

- PS 355 Less Developed Nations (3)
 PS 37 Gov & Pol of East Asia (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)
 UI 350 Middle East Politics (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 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

SPANISH**36 Hour Major - Minor Required
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:

- FL 311 Survey of FR, GN & SN Lit (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 of FL/SN Electives (300-500 level)**Additional Requirement:****Choose 3 Hours From:**

- AN101 Observing Other Cultures (3)
 AN 181 Intro to Cultural Anthropology (3)
 AN 341 Intro to Linguistic Anthropology (3)
 AN 360 Ancient Civ of Meso-America (3)
 EH 370 Europe in the 20th Century (3)
 GH 125 Islamic Civilization (3)
 GH 130 Latin American Civilization (3)
 UI 375 European Film (3)
 WH 520 Latin Am Colonial History (3)
 WH 524 Hist of Mexico Since 1810 (3)

THEATRE AND DANCE**48 Hour Major - Minor Required
Required Courses:**

- TH/DA 105 Rehearsal & Production (2)
 TH 155 Makeup (3)
 TH 218 Acting I (3)
 TH 231 Stagecraft I (3)
 TH 251 Costume Construction (3)
 TH/DA 305 Rehearsal & Production (2)
 TH 381 Script Analysis (3)

OR

- DA 280 Movement Analysis (3)
 TH 385 Directing I (3)

OR

- DA 380 Choreography I (3)
- TH/DA 490 Theatre History I (3)
- TH 495 Theatre History II (3)

OR

- DA 430 Principles of Teaching Dance (3)
- UI 384 History of the Musical (3)

OR

- UI 433 Aesthetics of Movement (3)

Choose One Area of Emphasis:

Theatre Emphasis

Select 3 Credits from:

- TH 265 Drawing for the Theatre (3)
- TH 316 Acting II (3)

Select 13 Credits from:

- TH 122/MU 121 Class Voice/Mus Theatre I (2)
- TH 219 Auditioning (1)
- TH 222 Class Voice/Mus Theatre II (2)
- TH 317 Voice for the Stage (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 331 Stagecraft II (3)
- TH 350 Stage Lighting I (3)
- TH 351 Costume Design I (3)
- TH 361 Scene Painting (3)
- TH 371 Scenic Design I (3)
- TH 375 Theatre Management (3)
- TH 381 Script Analysis (3)
- TH 386 Sound Design (3)
- TH 395 Period & Style (3)
- TH 416 Acting III (3)
- TH 418 Musical Theatre Performance II (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)

Dance Emphasis

Select 16 credits (12 of which must be from upper level courses) from:

- DA 211 Ballet I (2)
- DA 221 Modern Dance I (2)
- DA 226 Jazz Dance I (2)
- DA 236 Tap Dance I (2)
- DA 311 Ballet II (2)
- DA 321 Modern Dance II (2)
- DA 326 Jazz Dance II (2)
- DA 336 Tap Dance II (2)
- DA 395 Kinesiology & Physiology of Dance (2)

- DA 411 Ballet III (2)
- DA 421 Modern Dance III (2)
- DA 426 Jazz Dance III (2)
- DA 436 Tap Dance III (2)
- DA 471 Ballet IV (2)
- DA 481 Modern Dance IV (2)
- DA 486 Jazz Dance IV (2)
- DA 487 Jazz Dance V (2)
- DA 488 Jazz Dance VI (2)
- DA 496 Tap Dance IV (2)

BACHELOR OF FINE ARTS DEGREE

The Bachelor of Fine Arts degree is offered in the areas of Art (Department of Art) and Performing Arts (Department of Theatre and Dance). Music Performance is offered under the Bachelor of Music degree (Department of Music) p. 117.

The areas from which majors must be chosen are:

Art

Performing Arts

ART

In addition to the required courses listed, BFA-Art majors complete 32 departmentally approved concentration and elective hours in one of the following concentrations: Painting; Drawing; Printmaking; Sculpture; Ceramics; Fibers; Graphic Design; or Three Dimensional Computer Imaging/Animation. A 3.0 grade point average in the major must be maintained.

80 Hour Major - No Minor Required

Required Courses:

- AH 110 Art History Survey I (3)
- AH 210 Art History Survey II (3)
- AR 001 Foundation Core Review (0)
- AR 100 Drawing I (3)
- AR 104 Design Foundations (3)
- AR 106 3D Foundations (3)
- AR 150 Structural Figure Drawing (3)
- AR 201 Color Composition (3)
- AR 202 Drawing II: Human Figure (3)

OR

- AR 319 Intro to Graphic Design (3)
- AR 302 Printmaking (3)
- AR 313 New Genre (3)
- AR 325 Painting (3)
- AR 330 Fibers I (3)
- AR 332 Sculpture I (3)
- AR 342 Ceramics (3)

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

Concentration & Elective Art Courses (32)

Studio majors select 18 departmentally approved credit hours in one specialized area. All concentration majors choose a minimum of 14 departmentally approved elective credit hours.

PERFORMING ARTS**74-75 Hour Major – No Minor Required**

(A grade of “C” is required in each course within the BFA-Performing Arts major.)

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

Required Courses:

TH/DA 105 Rehearsal & Production (2)

TH 155 Makeup (3)

TH 218 Acting I (3)

OR

TH101 Acting for Non-Majors (3)*

TH 231 Stagecraft I (3)

OR

MM 101 Theories of Music in Culture (3)

TH 251 Costume Construction (3)

OR

TH 107 Theory Skills & Anls for Mus Theatre (3)

TH/DA 305 Rehearsal & Production (6)

TH 381 Script Analysis (3)

OR

DA 280 Movement Analysis (3)

TH 385 Directing I (3)

OR

DA 380 Choreography I (3)

OR

TH 307 Musical Theatre Score Study (3)

TH/DA 498 BFA Project (2)

TH/DA 499 Internship (4)

TH 490 Theatre History I (3)

OR

DA 490 Dance History (3)

**Option only for Dance & Design/Technology Emphasis*

Choose One Option:**ACTING/DIRECTING OPTION (40 Hours)**

TH 219 Auditioning (1)

TH 316 Acting II (3)

TH 317 Voice for the Stage (3)

TH 319 Acting for Film & Television (3)

TH 321 Stage Combat I (3)

TH 416 Acting III (3)

TH 431 Stage Combat II (3)

TH 485 Directing II (3)

TH 495 Theatre History II (3)

Choose 15 hours (9 hours must come from 300-400 level courses):

DA 130 Ballroom Dance (1)

DA 146 Swing Dance (1)

DA 186 Beginning Jazz Dance (1)

DA 211 Ballet I (2)

DA 221 Modern Dance I (2)

DA 226 Jazz Dance I (2)

DA 236 Tap Dance I (2)

DA 311 Ballet II (2)

DA 321 Modern Dance II (2)

DA 326 Jazz Dance II (2)

DA 336 Tap Dance II (2)

DA 411 Ballet III (2)

DA 421 Modern Dance III (2)

DA 426 Jazz Dance III (2)

DA 436 Tap Dance III (2)

DA 471 Ballet IV (2)

DA 481 Modern Dance IV (2)

DA 486 Jazz Dance IV (2)

DA 487 Jazz Dance V (2)

DA 488 Jazz Dance VI (2)

DA 496 Tap Dance IV (2)

MU/TH 318 Musical Theatre Performance I (3)

MU/TH 418 Musical Theatre Performance II (3)

TH 122/MU 121 Class Voice for Musical Theatre (3)

TH 222 Class Voice for Musical Theatre II (3)

TH 322 Class Voice for Musical Theatre III (3)

TH 375 Theatre Management (3)

Additional Requirement:

UI 384 History of the Musical (3)

OR

UI 422 Aesthetics of Movement (3)

DANCE OPTION (40 Hours)

DA 211 Ballet I (2)

DA 221 Modern Dance I (2)

DA 226 Jazz Dance I (2)

DA 236 Tap Dance I (2)

DA 311 Ballet II (2)

DA 321 Modern Dance II (2)

DA 326 Jazz Dance II (2)

DA 336 Tap Dance II (2)

DA 430 Principles of Teaching Dance (3)

Choose 6 hours:

DA 411 Ballet III (2)

DA 421 Modern Dance III (2)

DA 426 Jazz Dance III (2)

DA 436 Tap Dance III (2)

Choose 12 hours:

- DA 471 Ballet IV (2)
- DA 485 Choreography II (3)
- DA 486 Modern Dance IV (2)
- DA 486 Jazz Dance IV (2)
- DA 487 Jazz Dance V (2)
- DA 488 Jazz Dance VI (2)
- DA 496 Tap Dance IV (2)

Choose 3 hours:

- TH 350 Stage Lighting I (3)
- TH 351 Costume Design I (3)

Additional Requirement:

- UI 384 History of the Musical (3)

OR

- UI 422 Aesthetics of Movement (3)

DESIGN/TECHNOLOGY OPTION (39 Hours)

- TH 265 Drawing for the Theatre (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 Theatre Management (3)
- TH 386 Sound Design (3)
- TH 395 Period & Style (3)
- TH 450 Stage Lighting II (3)
- TH 451 Costume Design II (3)
- TH 471 Scenic Design II (3)
- TH 495 Theatre History II (3)

MUSICAL THEATRE OPTION (40 Hours)

- MM 105 Aural Skills I (1)
- MM 106 Aural Skills II (1)
- MU 151/152 Functional Piano I & II (2)
- MU 394 University Choir (2)

AND/OR

- MU 389 Choral Union (2)
- TH 219 Auditioning (1)
- TH 222 Class Voice for Musical Theatre II (3)
- TH 316 Acting II (3)
- TH 317 Voice for the Stage (3)
- TH 318 Musical Theatre Performance I (3)
- TH 322 Class Voice for Musical Theatre III (3)
- TH 416 Acting III (3)
- TH 418 Musical Theatre Performance II (3)

Choose 12 hours (8 hours from 300-400 level courses):

- DA 130 Ballroom Dance (1)
- DA 146 Swing Dance (1)
- DA 186 Beginning Jazz Dance (1)

- DA 211 Ballet I (2)
- DA 226 Jazz Dance I (2)
- DA 236 Tap Dance I (2)
- DA 326 Jazz Dance II (2)
- DA 336 Tap Dance II (2)
- DA 426 Jazz Dance III (2)
- DA 487 Jazz Dance V (2)
- DA 488 Jazz Dance VI (2)
- DA 436 Tap Dance III (2)
- DA 486 Jazz Dance IV (2)
- DA 496 Tap Dance IV (2)
- TH 321 Stage Combat I (3)
- TH 431 Stage Combat II (3)

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 face-to-face courses, the BGS may also be completed through web courses only.

Minimum Degree Requirements 120 Hours
University Studies Requirements 51 Hours
300-500 Level Courses Required 30 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

Athletic Training

Biology

- Options: Biomedical Sciences
- General Biology
- Microbiology, Cell & Molecular Biology
- Organismal, Ecological, & Evolutionary Biology
- Wildlife Conservation

Chemistry

- Options: ACS Certified Chemistry
- Chemistry
- Biochemistry
- Business
- Forensic Chemistry

Communication Disorders
 Computer Information Systems
 Computer Science
 Corporate Communication
 Criminal Justice
 Options: Corrections
 Law Enforcement
 Security Management
 Economics
 Engineering Physics
 Options: Applied Physics and Engineering
 Computer Applications in Physics &
 Engineering
 Engineering Technology
 Options: Electrical & Control
 Manufacturing Systems
 Environmental Science
 Health Management
 Options: Exercise Science
 Health Promotion
 Historic Preservation
 Hospitality Management
 Human Environmental Studies
 Options: Child Development
 Dietetics
 Family Studies
 Fashion Merchandising
 Housing & Interior Design
 Industrial Technology
 Options: Construction Management & Design
 Facilities Management
 Industrial Management
 Technical Graphics
 Technology (AAS transfers)
 Telecommunication & Computer
 Networking
 Interdisciplinary Studies
 Mass Communication
 Options: Advertising
 Public Relations
 Radio
 Television & Film
 Mathematics:
 Options: Pure Mathematics
 Applied Mathematics & Statistics
 Medical Technology
 Physics
 Political Science
 Psychology
 Recreation
 Social Work
 Sport Management

AGRIBUSINESS

67-70 Hour Major - No Minor Required Required Courses:

AC 221 Princ of Financial Accounting (3)
 AD 101 Intro to Microcomp Appl (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 (4)
 AY 101 Animal Science (5)
 HO 130 Intro to Horticulture (3)
 UI 436 Agricultural Ethics (3)

Additional Requirements (8 hours):

CH 180 Basic Princ of Chemistry (5)

OR

CH 185 General Chemistry I (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 205 Horse Science (3)
 AY 304 Princ of Animal Nutrition (3)
 AY 305 Advanced Horse Science (3)
 AY 311 Animal Breeding (3)
 AY 405 Beef Production (3)
 AG, AO, AY, HO prefix courses (15)

HORTICULTURE

AO 215 Soils (3)
 AO 260 Integrated Pest Mgmt (3)
 AO 323 Plant Pathology (3)
 HO 230 Advanced Horticulture (3)
 HO 330 Landscape Design & Maint (3)
 HO 342 Fruit & Vegetable Production (3)
 HO 350 Greenhouse Mgt (3)
 HO 430 Turfgrass Management (3)
 HO 431 Urban Forestry (3)
 HO 464 Golf Crs & Athl Field Mgmt (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 327 Sustainable Agriculture (3)
- AO 401 Ag & Natural Resource Mgmt (3)
- AO 420 Crop Physiology (3)
- AO 427 Soil Fertility & Plant Nutrtn (3)
- AO 444 Prin of Plant Breeding (3)
- AO 480 Crop Production (3)

ATHLETIC TRAINING

76 Hour Major - No Minor Required

(See Admission to Athletic Training criteria under Admissions, page 10.)

Required Courses:

- FN 235 Nutrition for Health (3)
- FN 530 Pathophysiology (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 (4)
- 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 (3)
- HL 345 Resistance Training Principles and Practices (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 499 Athletic Training Internship (6)
- PE 464 Kinesiology (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)
- PH 106 Physical Concepts (3)
- PY 101 Psych Perspect/Human Behav (3)

BIOLOGY

47 hour Major - No minor required

Required Courses:

- BI 003 Biology MFAT (0)
- BI 151 Biological Reasoning (3)
- BI 152 Intro to Scientific Investigation (1)
- BI 153 Intro to Organismal Biology (4)
- BI 154 Genetics and Cell Biology (4)
- BI 489 Analysis of Biological Issues (2)
- BI 4xx or 5xx Experiential Learning (2)
- CH 185/085/005 General Chemistry I (5)
- MA 134 College Algebra (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)

Additional Requirements: 23-25

- Any additional Math course not in University Studies (3-5)
- CH 186 General Chemistry II (3)
- CH 187 Qualitative Analysis (2)
- CH 341/342 Organic Chemistry I & Lab (5)
- PH 120 Introductory Physics I (5)
- PH 121 Introductory Physics II (5)

GENERAL BIOLOGY

Choose 3 hours from this list:

- BI 445 Microbial Physiology (3)
- BO 445 Plant Physiology (3)
- ZO 331 Animal Physiology (3)
- BI 200 General Microbiology (3)
- BI 381 Molecular Genetics (3)
- BI 404 Cell Biology (3)
- BI 414 Problems in Cell & Molecular Biology (3)
- BI 441 Virology (3)
- BI 442 Immunology (3)
- BI/BT 450 Inv. Molecular Biology & Biotechnology (3)
- BI 543/544 Pathogenic Microbiology and Lab (3)

Choose 3 hours from this list:

- BI 332 General Ecology (3)
- BI 420 Prin. Wildlife Management (3)
- BI 430 Management of Wildlife Habitat (3)
- BI 435 Conservation Biology (3)
- BI 440 Ecology & Management of Wetlands (3)
- BI 443 Epidemiology (3)
- BI 452 Limnology (3)
- BI 460 Intro to Toxicology (3)
- BI 469 Wildlife Toxicology (3)

Choose 3 hours from this list:

- BO 200 Plant Biology (3)
 BO 361 Systematic Botany (3)
 BO 461 Native Aquatic Plants (3)
 BO 469 Field Botany (2)
 ZO 200 Animal Biology (3)
 ZO 441 Parasitology (3)
 ZO 459 Mammalogy (3)
 ZO 460 Herpetology (3)
 ZO 465 Entomology (3)
 ZO 466 Ornithology (3)
 ZO 469 Vertebrate Adaptations (3)
 ZO 478 Ichthyology (3)

Any BI, BO, ZO courses at 300 level and above (11)**Additional Requirements: 6-8**

- Any additional Math course not in University Studies (3-5)
 CH 186 General Chemistry II (3)

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/BT 451 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)**Additional Requirements: 14-16**

- Any additional Math course not in University Studies (3-5)
 CH 186 General Chemistry II (3)
 CH 341/342 Organic Chemistry I & Lab (5)
 UI 331 Biochemistry (3)

ORGANISMAL, ECOLOGICAL, AND EVOLUTIONARY BIOLOGY

- BI 300 Intro to Evolutionary Biology (3)
 BI 332 General Ecology (3)
 BO 200 Plant Biology (3)
 ZO 200 Animal Biology (3)

Any BI, BO, ZO, BT courses, 300 level and above (11)**Additional Requirements: 6-8**

- UI 373 Earth/Life through Time (3)
 MA 139 Applied Calculus (3)

OR

- MA 140 Calculus (5)

OR

- MA 223 Probability and Statistics (3)

WILDLIFE AND CONSERVATION

- BI 3320 General Ecology (3)
 BO 200 Plant Biology (3)
 ZO 200 Animal Biology (3)

Choose two of the following:

- BI 420 Management of Wildlife Populations (3)
 BI 430 Management of Wildlife Habitat (3)
 BI 435 Conservation Biology (3)
 BI 440 Wetland Ecology and Management (3)

Biology Electives – choose 8 hours from this list:

- BI 420 Management of Wildlife Populations (3)
 BI 430 Management of Wildlife Habitat (3)
 BI 432 Advanced Ecology (3)
 BI 435 Conservation Biology (3)
 BI 440 Ecology and Management of Wetlands (3)
 BI 452 Limnology (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 (2)
 ZO 420 Animal Behavior (3)
 ZO 441 Parasitology (3)
 ZO 459 Mammalogy (3)
 ZO 460 Herpetology (3)
 ZO 465 Entomology (3)
 ZO 466 Ornithology (3)
 ZO 469 Vertebrate Adaptations (3)
 ZO 478 Ichthyology (3)

Additional Requirements: 6-8

- GO 110 Physical Geology (3)
- MA 139 Applied Calculus (3)
- OR**
- MA 140 Calculus (5)
- OR**
- MA 223 Elementary Probability and Statistics (3)

CHEMISTRY

**38 Hour Major-No Minor Required
Required Core Courses**

- CH 185 General Chemistry I (5)
- CH 186 General Chemistry II (3)
- CH 187 Qualitative Analysis (2)
- CH 271 Quantitative Analysis (4)
- CH 311 Physical Chemistry I (4)
- CH 312 Physical Chemistry II (3)
- CH 313 Physical Chemistry Laboratory (3)
- CH 341 Organic Chemistry I (4)
- CH 342 Organic Chemistry Laboratory I (1)
- CH 343 Organic Chemistry II (3)
- CH 344 Organic Chemistry Laboratory II (2)
- CH 498 Professional Presentation in Chemistry (1)
- UI 443 Professional Experience in Chemistry (3)

Additional Requirements: 22 hours

- MA 140 Analytical Geometry and Calculus I (5)
- MA 145 Analytical Geometry and Calculus II (4)
- MA 240 Analytical Geometry and Calculus III (3)
- 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

- CH 531/UI331 Biochemistry I (3)
- CH 563 Inorganic Chemistry (4)
- CH 575 Chemical Instrumentation (4)

Additional Requirements: One or two additional courses, which must include a two credit-hour lab component, chosen from the following:

- CH 391 Undergraduate Research (1)
- CH 392 Undergraduate Research (2)
- CH 447 Adv 1&2 Dim NMR Techniques (3)
- CH 533 Biochemistry Lab (2)
- CH 545 Organic Preps and Characterization (3)
- CH 565 Inorganic Preps (2)

BIOCHEMISTRY

- CH 531/UI331 Biochemistry I (3)
- CH 532 Biochemistry II (2)
- CH 533 Biochemistry Laboratory (2)
- BI 154 Genetics & Cellular Biology (4)
- BI 200 General Microbiology (3)
- BI 381 Genetics (3)
- BI 404 Cell Biology (3)

BUSINESS**

- AC 221 Principles of Financial Management (3)
- AC 222 Principles of Managerial Accounting (3)
- IS 175 Information Systems I (3)
- EC 215 Principles of Microeconomics (3)
- EC 225 Principles of Macroeconomics (3)
- FI 361 Financial Management (3)
- QM 257 Business Statistics (3)

OR

- MA 223 Elementary Probability and 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.S. 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

Chemistry Elective (300 level or higher) (3-4)

Selected from at least one of the following courses:
 CH 350/EV 350 Environmental Chemistry (3), CH 420 Forensic Chemistry (4), CH 447 Adv 1&2 Dim NMR Techniques (3), CH 531/UI 331 Biochemistry (3), CH 545 Organic Preparations and Characterization (3), CH 563 Inorganic Chemistry (4), CH 575 Chemical Instrumentation (4)

FORENSIC CHEMISTRY

- CH 420 Forensic Chemistry (4)
- CH 575 Chemical Instrumentation (4)
- CJ 350 Evidence Collection and Preservation (3)
- MA 423 Statistical Analysis for Forensic Science (3)
- UI 331 Biochemistry (3)

OR

- EV 460 Introduction to Toxicology (3)

COMMUNICATION DISORDERS**35 Hour Major - Minor Required**

(See Admission to Communication Disorders Program criteria under Admissions, page 10)

Required Courses:

- CD 211 Anat & Physiology/Speech Mechanism (4)
 CD 225 Phonetics (4)
 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 (4)
 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)
 CD 541 Fluency Disorders (3)

Additional Requirements:

- BS 107 Investigations in Biology (3)
 EN 140 Rhetoric & Critical Thinking (3)
 MA 134 College Algebra (3)
 PS 103 U.S. Political Systems (3)
 PY 101 Psych Perspect on Human Behavior (3)
 SC 105 Fund of Oral Communication (3)
 US 105 American History I

OR

- US 107 American History II (3)

Choose One of the Following:

- MA xxx Additional Math course (above MA 134) (2-3)
 PL 120 Symbolic Logic (3)
 PY 271 Research Design & Analysis (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**58-60 Hour Major - 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 331 Applications Programming (3)
 CS 440 Database (3)
 CS 445 Software Engineering I (3)
 CS 480 Data Communications (3)
 CS 495 Senior Seminar (1)
 IS 130 Visual Basic Programming I (3)
 IS 175 Information Systems I (3)
 IS 275 Information Systems II (3)
 MA 139 Applied Calculus (3)

OR

- MA 140 Analytical Geom & Calc I (5)
 MA 223 Probability & Statistics (3)
 UI 450 Capstone Experience (3)

**Choose 6 hours CS or IS prefix courses
(300-500 level)****COMPUTER SCIENCE****79 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 331 Applications Programming (3)
 CS 345 Discrete Structures II (3)
 CS 350 Analysis of Algorithms (3)
 CS 380 Operating Systems (3)
 CS 390 Programming Languages (3)
 CS 440 Database (3)
 CS 445 Software Engineering I (3)
 CS 480 Data Communications (3)
 CS 495 Senior Seminar (1)
 MA 140 Analytic Geometry & Calculus I (5)
 MA 145 Analytic Geometry & Calculus II (4)
 MA 223 Probability & Statistics (3)
 MA 345 Linear Algebra (3)
 UI 450 Capstone Experience (3)

Choose 3 hours CS prefix courses (300-500 level)

Choose 12 hours in one science, suitable for science majors.

At least two courses must have lab component. Choose from Biology, Chemistry, Geoscience, or Physics/Engineering Physics.

CORPORATE COMMUNICATION

48 Hour Major – Minor Required

Required Courses:

- MG 301 Principles of Management (3)
- MK 301 Principles of Marketing (3)
- MK 341 Public Relations (3)
- SC 155 Fund of Interpersonal Comm (3)
- SC 330 Corporate & Professional Comm (3)
- SC 335 Interviewing (3)
- SC 4xx Practicum in Corporate Comm (3)

OR

- SC 483 Internship in Corporate Comm (3)
- SC 560 Organizational Comm (3)
- UI 301 Managerial Communication (3)

Choose 9 hours from:

- SC 215 Intercultural Communication (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 Comm Prin/Negotiation & Conflict Mgmt (3)
- UI 345 Nonverbal Communication (3)
- UI 425 Persuasion (3)
- SC 463 Independent Study (3)
- SC 510 Leadership and Team Building (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

**33 Hour Major - Minor Required
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 425 Planning/Resrch in Crim Justice (3)
- CJ 526 Stataistical Analysis in Crim Justice (3)

OR

- SO 240 Interpretation of Data (3)

OR

- SO 242 Statistics for Soc Scientists (3)

Choose One 12 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)

LAW ENFORCEMENT

- CJ 310 Advanced Police Administration (3)
- CJ 330 Criminal Investigations (3)
- CJ 422 Criminal Procedure (3)
- CJ xxx CJ Course (300-500 level) (3)

SECURITY MANAGEMENT

- CJ 325 Intro to Security Systems (3)
- CJ 326 Security & Loss Prevention (3)
- CJ 327 Security Management (3)
- CJ 422 Criminal Procedure (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.

ENGINEERING PHYSICS**EAC/ABET Accredited (see www.abet.org)****61 Hour Major - No Minor Required****Required Courses:**

EP 100	Physics & Engineering Concepts (1)
EP 240	Circuit Analysis (4)
EP 305	Digital & Analog Syst Design (3)
EP 340	Electronic Circuits (4)
EP 372	Signals and Systems (3)
EP 480	Capstone Design I (1)
PH 230	General Physics I (5)
PH 231	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 445	Experimental Methods II (3)
UI 450	Capstone Experience (3)

Additional Requirements: 31 Hours

CH 185	General Chemistry I (5)
MA 140	Analytic Geometry & Calculus I (5)
MA 145	Analytic Geometry & Calculus II (4)
MA 240	Analytic Geometry & Calculus III (3)
MA 245	Vector Calculus (2)
MA 334	Computer Programming (3)
MA 350	Differential Equations (3)
MA 544	Numerical Analysis (3)
TG 120	Engineering Graphics (3)

Choose One 14 Hour Option:**APPLIED PHYSICS AND ENGINEERING**

EP 361	Thermal Analysis (3)
EP 374	Control Systems (3)
EP 462	Material Science (3)
PH 473	Quantum Mechanics (3)

Choose 2 Hours Approved EP or PH**Electives****COMPUTER APPLICATIONS IN PHYSICS AND ENGINEERING**

CS 155	Computer Science I (4)
CS 265	Computer Science II (4)
CS 315	C & the Unix Environment (3)
EP 310	Microcomputer Interfcing (3)

ENGINEERING TECHNOLOGY**97 Hour Major - No Minor Required**

CH 181	Basic Principles of Chemistry (5)
ET 194	Intro to PLCs (3)
IM 102	Technical Communications (3)
IM 301	Industrial Safety Supervision (3)
IM 311	Statistical Process Control (3)
MA 135	Algebra & Trigonometry (5)
MA 140	Analytic Geometry & Calculus I (5)
MA 1xx	Integral Calculus & Differential Equations (5)
MN 220	Engineering Economic Analysis (3)
MN 260	Techncl Computer Programng Appl (3)
MN 356	Robotics (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)
UI 319	Science, Tech, & Society (3)
UI 410	Manufacturing Research (3)

Choose One 33 Hour Option:**ELECTRICAL AND CONTROL:**

ET 162	DC Principles & Circuits (3)
ET 164	AC Principles & Circuits (3)
ET 245	Logic Circuits (3)
ET 260	Electronic Circ Design/Analysis I (3)
ET 264	Industrial Electronics (3)
ET 275	Network Routing & Switching I (3)
ET 365	Industrial Electrical Power (3)
ET 366	Microcontrollers (3)
ET 367	Motor Control and Drive Systems (3)
ET 468	Industrial Control (3)
ET 470	Energy Management (3)

MECHANICAL & MANUFACTURING**SYSTEMS:**

ET 160	Basic Electricity & Electronics (3)
MN 170	Industrial Materials & Testing (3)
MN 203	Industrial Materials & Processes I (3)
MN 204	Industrial Materials & Processes II (3)
MN 319	Statics & Strengths of Materials (3)
MN 350	Machine Design (3)
MN 354	Computer Aided Manufacturing (CAM) (3)
MN 402	Plastics & Processes (3)
TG 120	Computer Aided Eng. Graphics (3)
TG 220	Solid Modeling & Rapid Prototyping (3)
TG 324	Design Modeling & Processes (3)

ENVIRONMENTAL SCIENCE

78-92 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 I (5)
 CH 186 General Chemistry II (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 (4)
 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 Biochemistry I (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 & Communication Options

**Required for Policy & Communication Option

Choose One Option:

BIOLOGY (26 Hours)

- BI 151 Biological Reasoning (3)
 BI 152 Intro to Scientific Investigation (1)

Choose 2 Courses From:

- BI 200 Microbiology (3)
 BO 200 Plant Biology (3)
 ZO 200 Animal Biology (3)

Additional Required Courses:

- CH 341 Organic Chemistry I (4)
 CH 342 Organic Chemistry Lab I (1)
 CH 350 Environmental Chemistry (3)

Choose 8 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 Limnology (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 Financial Accounting (3)
 AC 222 Principles of Managerial Accounting (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 Qualitative Analysis (2)
 CH 271 Quantitative Analysis (4)
 CH 310 Introduction to Physical Chemistry (5)
 CH 341 Organic Chemistry I (4)
 CH 342 Organic Chemistry Lab I (1)
 CH 350 Environmental Chemistry (3)
 PH 121 Introductory Physics (5)
 UI 443 Prof Experience in Chem (3)

Choose 1 Course From:

- CH 343 Organic Chemistry II (3)
 CH 344 Organic Chemistry Lab II (2)
 CH 391 Undergraduate Research (1-3)
 CH 545 Organic Preparations & Characterizations (3)

CH 575 Chemical Instrumentation (4)

CH 531/UI 331 Biochemistry I (3)

ENVIRONMENTAL HEALTH (22-23 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)

BS 332 Human Physiology (3)

EN 301 Writing for Science & Technology (3)

HL 210 Health & Safety (2)

HL 320 Community Health (3)

Additional Required Courses:

CH 341 Organic Chemistry I (4)

CH 342 Organic Chemistry Lab I (1)

CH 350 Environmental Chemistry (3)

GEOPROCESSING AND SOILS (23 Hours)

GO 340 Remote Sensing (3)

GO 445 Geographic Information Systems (3)

GO 458 Environmental Geochemistry (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 341 Organic Chemistry I (4)

CH 342 Organic Chemistry Lab I (1)

CH 350 Environmental Chemistry (3)

POLICY AND COMMUNICATION (18 Hours)

EN 190 Writing & the Environment (3)

EN 301 Writing for Science & Technology (3)

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 MANAGEMENT

61-72 Hour Major - No Minor Required Required Courses:

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 (3)

HL 431 Fitness Assmt & 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)

HISTORIC PRESERVATION

48 Hour Major – No Minor Required

HISTORIC PRESERVATION REQUIREMENTS Required Courses:

GH 315 Historiography (3)

HP 007 Professional Portfolio Review (0)

HP 100 Intro to Historic Preservation (3)

HP 200 Intro to Techniques of Local History (3)

HP 585 History of American Architecture (3)

HP 588 Legal & Econ Prin of Historic Preserv (3)

- US 105 American History I (3)
 US 107 American History II (3)

Choose 9 Hours From:

(3 Hours Must be a Problems Course)

- HP 405 Archives & Spec Collections Management (3)
 HP 410 Museum Studies (3)
 HP 420 Historic Site Administration (3)
 HP 450 Problems in Historic Preservation (3)

Choose 6 Hours From:

Any EH, GH, US, or WH 200-500 level or approved departmental UI course

Choose 3 Hours From:

Any EH, GH, US, or WH 400-500 level or approved departmental UI course

Choose 9 Hours From:

- 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 9 Hours From:

- AD 101 Intro to Microcomputer Appl (3)
 BL 255 Legal Environment of Business (3)
 BS 105 Environmental Biology (3)
 GO 445 Geog Information Systems (3)
 HI 104 Housing & Interior Design (3)
 MK 301 Principles of Marketing (3)
 TG 100 Intro to Drafting (3)
 TG 126 Computer Assisted Drafting (3)
 TG 284 Photography Fundamentals (3)
 TH 101 Acting for Non-Majors (3)
 TH 395 Period & Style (3)
 UI 351 Public Opinion (3)
 UI 371 Government & Business (3)
 UI 400 Business & Ethics (3)
 UI 425 Persuasion (3)

Choose 6 Hours From:

- AH 511 American Art (3)
 HI 532 History of Furniture II (3)
 UI 312 Perspectives on the Present (3)
 UI 313 African-American Experience (3)
 UI 337 Issues in Modern Architecture (3)
 UI 339 North American Indians (3)
 UI 340 Housing Perspectives (3)
 UI 341 Victorian Studies (3)
 UI 347 Living in a Global Society (3)
 UI 401 American Cultural Landscapes (3)
 UI 414 The American Temper (3)
 UI 418 European Mind (3)
 UI 446 Civil Rights Movement (3)
 UI 503 Alexander the Great (3)

Choose 3 Hours From:

- AN 321 Midwestern Archaeology (3)
 AN 355 Special Topics in Anthropology (3)
 AN 381 North American Archaeology (3)
 AN 382 Archaeology: Method & Theory (3)
 AN 550 Historical Archaeology (3)
 GO 340 Remote Sensing (3)
 HP 552 Historic Preservation Field School (3)
 UI 373 Historical Geology (3)

HOSPITALITY MANAGEMENT

47 Hour Major – No Minor Required

Required Courses:

- FN 150 Intro to Hospitality Mgmt (3)
 FN 205 Selection & Preparation of Foods (3)
 FN 235 Nutrition for Health (3)*
 FN 260 Sanitation/Foodsvc & Hospitality Indus (1)
 FN 270 Hotel & Resort Operations (3)
 FN 304 Food, Bev & Labor Cost Cntrls (3)
 FN 325 Hospitality Law (3)
 FN 350 Culinary Theory & Practice (3)
 FN 390 Hosp Sales & Marketing (3)
 FN 406 Hospitality & Institution Admin (3)
 FN 416 Quantity Food Production (4)
 FN 473 Intrnshp/Foodsvc & Hospitality Envir (12)
 FN 515 Yield/Revenue Mgmt for Hosp Indstry (3)

Additional Requirements: 21 Hours

- AD 101 Intro to Microcomputer Appl (3)
 EC 101 Economic Problems & Policies (3)*

OR

- EC 215 Prin of Microeconomics (3)*
 MA 134 College Algebra (3)*
 MG 301 Principles of Management (3)
 MG 356 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**

50 Hour Major - No Minor Required

Required Courses:

- CF 102 Personal & Family Relationships (2)
 CF 120 The Child: Devel/Conception to Adolsc (3)
 CF 126 Facilitating Devel in Young Children (3)
 CF 200 Guiding Alternatives/Young Children (3)
 CF 290 Preschool Participation (2)
 CF 291 Preschool Participation Lab (1)
 CF 300 Parent Education (2)
 CF 301 Parent Education Lab (1)

CF 316	Prenatl/Infnt Growth & Stimulation (2)
CF 317	Prenatl/Infnt Grwth & Stimulation Lab (1)
CF 403	Child & Family Practicum (3)
CF 430	Parent Chld Intractns: Systems Appr (3)
CF 450	Teaching Young Children, Ages 3-5 (3)
CF 501	Preschool Practicum (3)
CF 512	Family & Comm Resources (3)
EX 390	Psych & Educ of the Exceptional Child (3)
FN 425	Hlth/Nutrition/Safety of Young Child (3)
Choose 9 Hours From:	
CF 312	Organizn & Mgt of Childcare Centers (3)
CF 409	School Age Child Care (3)
CF 502	Preschool Children/Compnr Techn (3)
CF 506	Theories & Issues in Child Dvlpmnt (3)
CF 509	Child Life Services (3)
CF 530	Research & Issues in Child Dvlpmnt (3)

HUMAN ENVIRONMENTAL STUDIES: DIETETICS OPTION

47 Hour Major - No Minor Required

Required Courses:

FN 205	Food Selection & Preparation (3)
FN 255	Nutrition I (3)
FN 304	Food, Beverage & Labor Cost Cntrl (3)
FN 320	Essentials of Food Science (4)
FN 340	Professional Dietetic Seminar (1)
FN 355	Lifespan Nutrition (3)
FN 370	Nutrition Assessment (3)
FN 406	Hospitality & Institution Admin (3)
FN 416	Quantity Food Production (4)
FN 502	Nutrition II (3)
FN 503	Medical Nutrition Therapy I (4)
FN 504	Medical Nutrition Therapy II (4)
FN 525	Nutrition Counseling (3)
FN 540	Community Nutrition (3)
HE 520	Tech/Teaching Nutrition & Health Ed (3)

Additional Requirements: 55 Hours

(Some courses may fulfill University Studies requirements)

AC 221	Prin of Financial Accounting (3)
AD 101	Intro to Microcomputer Appl (3)
AG 201	World Food & Society (3)
BS 113	Anatomy & Physiology I (4)
BS 114	Anatomy & Physiology II (4)
BS 240	Microorganisms/Human Host (3)
CH 181	Basic Prin of Chemistry (5)
CH 234	Organic & Biol Chemistry (3)
EN 140	Rhetoric & Critical Thinking (3)
FN 235	Nutrition for Health (3)
HL 331/ 031	Exercise Physiology (3)
MA 134	College Algebra (3)

MK 301	Principles of Marketing (3)
PY 101	Psych Perspectives/Human Behavior (3)
PY 271	Research Methods (3)
SC 105	Fundamentals of Oral Communication (3)
SO 102	Society, Culture & Social Behavior (3)

HUMAN ENVIRONMENTAL STUDIES: FAMILY STUDIES OPTION

44 Hour Major - Minor Required

Required Courses:

CF 102	Personal & Family Relationships (2)
CF 120	The Child: Devel/Conception to Adolsc (3)
CF 206	Intro to Gerontology (3)
CF 207	Gerontology Practicum I (3)
CF 209	Intro to Family Systems (3)
CF 300	Parent Education (2)
CF 301	Parent Education Lab (1)
CF 320	Life Skills Education (3)
CF 340	Family Advocacy Practicum (3)
CF 402	Marriage Interaction (3)
CF 405	Special Population Practicum (3)
CF 430	Parent-Child Interaction (3)
CF 512	Family & Comm Resources (3)
CF 520	Family Assessment (3)
CF 565	Family Service Internship (6)

Additional Requirements: 6 hours

FE 200	Family Resource Management (3)
SW 121	Helping Skills in Human Services (3)

HUMAN ENVIRONMENTAL STUDIES: FASHION MERCHANDISING OPTION

38 Hour Major - Retail Management Minor Required

Required Courses:

CT 110	Intro to Fashion Merchandising (3)
CT 207	Textiles (3)
CT 230	Apparel Analysis (3)
CT 300	Professional Image & Behavior (2)
CT 350	Apparel Aesthetics (3)
CT 410	Internship (6)
CT 415	Fashion Retailing (3)
CT 420	Specialty Markets (3)
CT 450	Issues & Trends in Fash Merch (3)
CT 517	History of Costume (3)
CT 518	Soc Psych Aspects of Clothing (3)
HI 214	Display Design (3)

Additional Requirements: 15 Hours

AD 101	Intro to Microcomp Appl (3)
AR 104	Design Foundations (3)
EC 101	Economic Problems & Policies (3)

- MG 301 Principles of Management (3)
 MG 356 Human Resources Management I (3)

**HUMAN ENVIRONMENTAL STUDIES:
 HOUSING & INTERIOR DESIGN
 OPTION**

45 Hour Major - No Minor Required

Required Courses:

- CT 207 Textiles I (3)
 HI 104 Housing & Interior Design I (3)
 HI 220 Lighting & Interior Systems (3)
 HI 224 Design Illustration (3)
 HI 230 Residential Interior Design I (3)
 HI 370 Materials & Cost Estimating (3)
 HI 420 Prof Practice/Interior Design (3)
 HI 430 Residential Interior Design II (3)
 HI 440 Contract Interior Design I (3)
 HI 442 Contract Interior Design II (3)
 HI 470 Interior Design Practicum (3)
 HI 530 History of Furniture I (3)
 HI 532 History of Furniture II (3)
 UI 340 Housing Perspectives (3)

Choose 3 Hours From:

- HI 214 Display Design (3)
 HI 400 Arch Rendering/Interior Design (3)
 HI 411 Internship in Housing & Int Design (3)
 HI 518 Environ Design/Spec Populations (3)

Additional Requirements: 20-21 Hours

- AR 104 Design Foundations (3)
 MK 301 Principles of Marketing (3)
 TG 100 Intro to Drafting (3)

OR

- TG 120 Engineering Graphics (3)
 TG 126 Computer Aided Drafting (3)
 TG 320 Residential Arch Drftg & Design (3)
 TG 322 Comm Arch Drftg & Design (3)

Choose One of the Following Courses:

- HO 330 Landscape Planting Design (3)
 HO 355 Foliage Plants (3)
 HO 530 Home Horticulture (2)
 HP 585 History/American Architecture (3)

INDUSTRIAL TECHNOLOGY

79 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)
 MA 133 Plane Trigonometry (3)

- MA 134 College Algebra (3)
 MA 139 Applied Calculus (3)
 MN 220 Engineering Econ Analysis (3)
 MN 260 Tech Computer Programming Appl (3)
 PH 120 Introductory Physics I (5)
 PH 121 Introductory Physics II (5)*

OR

- CH 181 Basic Principles of Chemistry (5)*
 UI 410 Manufac Research/Global Society (3)
**Construction Management and Design and Industrial Management options must take CH181; Telecommunications & Computer Networking option must take PH121.*

Choose One Option:

**CONSTRUCTION MANAGEMENT & DESIGN
 (39 Hours)**

- CM 243 Construction Methods & Matls (3)
 CM 310 Construction Building Codes (3)
 CM 315 Construction Contracts & Legal Issues (3)
 CM 320 Construction Cost Estimating (3)
 CM 325 Bldg Mechanical & Electrical Syst (3)
 CM 330 Construction Planning Scheduling (3)
 CM 343 Construction Surveying & Testing (3)
 CM 410 Construction Project Administration (3)
 IM 317 Internship (3)
 MN 319 Statics & Strength of Materials (3)
 TG 126 Computer Aided Arch Drafting (3)
 TG 320 Resid Arch Drafting & Design (3)
 TG 322 Comm Arch Drftg & Design (3)

FACILITIES MANAGEMENT (39 Hours)

- AC 221 Financial Accounting (3)
 CM 310 Construction Building Codes (3)
 CM 315 Construction Contracts & Legal Issues (3)
 CM 325 Bldg Mechanical & Electrical Syst (3)
 CM 330 Construction Planning Scheduling (3)
 CM 410 Construction Project Administration (3)
 ET 470 Energy Management (3)
 FM 3xx Facility Design & Programming (3)
 FM 4xx Concepts of Space Planning (3)
 FM 5xx Facilities Management (3)
 IM 317 Internship (3)
 TG 126 Computer Aided Arch Drafting (3)
 TG 320 Resid Arch Drafting & Design (3)

INDUSTRIAL MANAGEMENT (39 Hours)

- ET 160 Basic Electricity & Electronics (3)
 ET 194 Intro to PLCs (3)
 IM 313 Facilities Planning (3)
 IM 315 Work Measurement (3)
 IM 411 Total Quality Assurance (3)
 IM 417 Manufacturing Resource Analysis (3)

- MG 301 Principles of Management (3)
 MN 170 Industrial Materials & Testing (3)
 MN 203 Industrial Materials & Process I (3)
 MN 204 Industrial Materials & Processes II (3)
 QM 352 Quantitative Methods (3)
 TG 120 Computer Aided Eng. Graphics (3)
 TG 325 Print Reading for Industry (3)

TECHNICAL GRAPHICS (39 Hours)

- TG 120 Computer Aided Eng. Graphics (3)
 TG 180 Intro to Indus Graphics (3)
 TG 220 Solid Modeling & Rapid Prototyping (3)
 TG 284 Photography Fundamentals (3)

OR

- MN 170 Engineering Matls & Testing (3)
 TG 300 Vect & Bitmp Graph for Indus (3)
 TG 320 Resid Arch Drft & Design (3)

OR

- TG 384 Commercial Photography (3)
 TG 325 Print Reading for Industry (3)

OR

- TG 480 Advanced Industrial Animation (3)
 TG 382 Electronic Publishing (3)

OR

- MN 203 Industrial Matls & Proc I (3)
 TG 322 Comm Arch Drft & Design (3)

OR

- TG 482 Multicolor Print Processes (3)
 TG 324 Design Modeling & Processes (3)

OR

- TG 386 Interactive Multimedia & Animation (3)
 TG 380 3D Product Modeling & Animation (3)
 TG 385 Non-Linear Video Editing for Industry (3)
 TG 490 Advanced Graphics Projects (3)

TELECOMMUNICATION & COMPUTER NETWORKING (39 Hours)

- ET 160 Basic Electricity & Electronics (3)
 ET 194 Fundamentals of PLCs (3)
 ET 245 Logic Circuits (3)
 ET 254 Fiber Optics & Network Comm (3)
 ET 255 Microcomputer Maint & Troubleshooting (3)
 ET 275 Network Routing & Switching I (3)
 ET 375 Network Routing & Switching II (3)
 ET 395 Server Maint & Troubleshooting (3)
 ET 425 Wireless Comm & Mobile Data Netwk (3)
 ET 435 Network Security (3)
 MI 440 Web Design Electronic Comm (3)
 MI 445 System Analysis & Design (3)
 MN 412 Adv Manufacturing Systems (3)

OR

- IM 317 Cooperative Industrial Internship (3)

TECHNOLOGY (34 Hours)

The Technology option is specifically designed for students who have earned accredited Associate of Applied Science degrees in technically-oriented programs and desire to complete a Bachelor of Science degree in Industrial Technology. Students will be awarded up to 34 hours for the approved technical transfer courses. To complete the BS degree, students must complete the University Studies requirements and the Industrial Technology core courses. In addition, students will select 21 credit hours of technical electives at the senior division level to build upon the skills gained through the AAS degree. This option is available on the main campus, in the St. Louis area, and online. Contact the Department of Industrial and Engineering Technology or see <http://www.semo.edu/study/industrialtech/courses.htm> for further information.

INTERDISCIPLINARY STUDIES**72 Hour Major - No Minor Required**

For details about the Interdisciplinary Studies major, students should contact the School of University Studies or visit the School of University Studies web page at <http://www.semo.edu/ustudies>. Students must complete the interdisciplinary contract prior to the senior year. A cumulative GPA of 2.5 is required for graduation.

MASS COMMUNICATION**36 Hour Major – Minor Required**

(A grade of 'C' or better is required in all courses within the major except MC 486 & MC 496 which are credit/no credit courses.)

Required Courses:

- MC 101 Mass Communication & Society (3)
 MC 201 Writing for the Mass Media (3)
 MC 301 Mass Comm Theory & Research (3)
 MC 401 Communication Law (3)
 MC 486 Internship in Mass Communication (3)

OR

- MC 496 Practicum in Mass Comm (3)
 MC xxx Mass Communication electives (6)

Additional Requirements:

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

**A grade of 'C' or better is required in MA 155 and UI 382.*

Choose One 15 Hour Option:

ADVERTISING

- MC 310 Advertising Comm Strategies (3)
- MC 312 Advertising Creative Concepts (3)
- MC 314 Adv Social Issues/Responsibilities (3)
- MC 316 Advertising Media (3)
- MC 418 Advertising Campaigns (3)

PUBLIC RELATIONS

- MC 330 Public Relations Principles (3)
- MC 332 Public Relations Writing/Design (3)
- MC 334 Public Relations Research & Strategy (3)
- MC 430 Strategic Comm Issues (3)
- MC 434 Public Relations Campaigns (3)

RADIO

- MC 141 Intro to Radio (1)
- MC 340 Basic Radio (2)
- MC 342 Radio Programming Strategies (3)
- MC 344 Audio Production & Performance (3)
- MC 346 Electronic News Gathering (3)
- MC 448 Radio Station Administration (3)

TELEVISION AND FILM

- MC 351 Basic Video Film Production (3)
- MC 352 Inter Video Film Prod (3)

Choose one nine-hour track:

Broadcast News

- MC 371 Broadcast Field Production (3)
- MC 372 Broadcast Reporting (3)
- MC 471 Broadcast News Production (3)

Film

- MC 353 Film History (3)
- MC 354 Screenwriting (3)
- MC 451 Film Directing (3)

Video Production

- MC 361 Advanced Video Production (3)
- MC 367 Converging Media Systems (3)
- MC 466 Television Directing (3)

NOTE: Of the 83 hours required outside of the major, 68 hours must be from traditional Arts and Sciences courses.

MATHEMATICS

**43 Hour Major - No Minor Required
Required Courses:**

- MA 138 Discrete Mathematics I (3)
- MA 140 Analytic Geometry & Calculus I (5)
- MA 145 Analytic Geometry & Calculus II (4)
- MA 240 Analytic Geometry & Calculus III (4)
- MA 250 Foundations of Mathematics (3)
- MA 448 Mathematics Seminar (1)

Choose One 24 Hour Option:

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 540, MA 544, MA 545, MA 547, MA 550

APPLIED MATHEMATICS & STATISTICS

- MA 223 Elem Probability & Statistics (3)

Choose 3 Hours From:

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

Choose 15 Hours From (include at least 3 MA courses):

- MA 245 Vector Calculus (2)
 - MA 334 Computer Programming (3)
 - MA 338 Discrete Math II (3)
 - MA 345 Linear Algebra (3)
 - MA 350 Differential Equations I (3)
 - MA 423 Statistical Analysis for Forensic Science (3)
 - MA 464 Mathematical Cryptography (3)
 - MA 486-488 Internship in Mathematics (1-3)
 - MA 523 Probability & Statistics I (3)
 - MA 524 Probability & Statistics II (3)
 - MA 544 Numerical Analysis (3)
 - MA 545 Linear Algebra & Matrices (3)
 - 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)
 - CH 311 Physical Chemistry I (4)
 - CH 312 Physical Chemistry II (3)
 - CS 345 Discrete Structures II (3)
 - EP 261 Eng Mech Statics (3)
 - EP 262 Eng Mech Dynamics (3)
 - EP 361 Thermal Analysis (3)
 - EP 372 Signals & Systems (3)
 - EP 374 Control Systems (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 544 Numerical Analysis (3)
 - MA 545 Linear Algebra & Matrices (3)
 - MA 547 Advanced Calculus II (3)
 - MA 550 Differential Equations II (3)

MEDICAL TECHNOLOGY**73-77 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 I (5)
 CH 186 General Chemistry II (3)
 CH 187 Qualitative Analysis (2)
 CH 271 Quantitative Analysis (4)
 CH 341 Organic Chemistry I (4)
 CH 342 Organic Chemistry Lab I (1)
 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 Biochemistry I (3)

Clinical Year Program Off Campus (30 Hours)**PHYSICS****56 Hour Major - No Minor Required****Required Courses:**

- EP 100 Physics & Engineering Concepts (1)
 EP 340 Electronic Circuits I (4)
 EP 361 Thermal Analysis (3)
 EP 462 Materials Science (3)
 PH 230 General Physics I (5)
 PH 231 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 445 Experimental Methods II (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 7 Hours Approved EP or PH Electives**Additional Requirements: 25 Hours**

- CH 185 General Chemistry I (5)
 MA 140 Analytic Geometry & Calculus I (5)
 MA 145 Analytic Geometry & Calculus II (4)
 MA 240 Analytic Geometry & Calculus III (3)
 MA 245 Vector Calculus (2)
 MA 334 Computer Programming (3)
 MA 350 Differential Equations (3)

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 230 American Public Policy (3)
 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

- PS 355 Less Developed Nations (3)
 PS 377 Govt & Pol of East Asia (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)
 UI 350 Middle East Politics (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)
- SO 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

Required Core Courses:

- PY 102 Intro to Psychology (3)
- PY 271 Research Design & Analysis I (3)
- PY 370 Research Design & Analysis II (3)
- PY 484 Advanced Research in Psychology (3)
- PY 497 Historical Development of Psychology (3)

Extended Core Courses:

(Choose One Course From Each of the Following Five Areas) (15 hours)

Basic Processes

- PY 362 Learning & Memory (3)
- PY 366 Intro to Sensation & Perception (3)
- PY 466 Intro to Physiological Psychology (3)

Clinical/Personality

- PY 432 Intro to Personality (3)
- PY 440 Abnormal Psychology (3)
- PY 441 Intro to Clinical Psychology (3)

Cognition

- PY 353 Social Cognition (3)
- PY 364 Comparative Cognition (3)
- PY 460 Cognitive Processes (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)
- PY 525 Maturity & Aging (3)

Social/Applied Psychology

- PY 250 Applied Psychology (3)
- PY 251 Industrial/Organizational Psychology (3)
- PY 358 Social Psychology (3)

Elective Courses:

(Choose Two Additional Courses From One of the Following Five Areas). PY 495 may be taken only once to satisfy this option requirement (6 hours)

Basic Processes

- PY 362 Learning & Memory (3)
- PY 366 Intro to Sensation & Perception (3)
- PY 465 Motivation & Emotion (3)
- PY 466 Intro to Physiological Psychology (3)

Clinical/Personality

- 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 495 Internship in Psychology (3)
- PY 531 Psychological Testing (3)

Cognition

- PY 353 Social Cognition (3)
- PY 460 Cognitive Processes (3)
- PY 364 Comparative Cognition (3)

Developmental Psychology

- PY 325 Psychological Devel of the Family (3)
- PY 329 Psychology of Death & Dying (3)
- PY 444 Childhood Psychopathology (3)
- PY 495 Internship in Psychology (3)
- PY 521 Advanced Child Development (3)
- PY 525 Maturity & Aging (3)

Social/Applied Psychology

- PY 250 Applied Psychology (3)
- PY 251 Industrial/Organizational Psychology (3)
- PY 358 Social Psychology (3)
- PY 359 Psychology & the Law (3)
- PY 495 Internship in Psychology (3)

RECREATION**57 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 12 Hours From:

RC 112	Intro to Music Therapy (3)
RC 116	Special Topics in Health & Leisure (1-3)
RC 119	Outdoor Adventure Special Topics (1-3)
RC 210	Camp Leadership (3)
RC 230	Recreational Sports (3)
RC 245	Mentoring Principles & Practices (3)
RC 250	Foundations of Outdoor Recreation (3)
RC 270	Commercial Recreation (3)
RC 300	Leisure Education (3)
RC 304	Therapeutic Rec & Prog Design (3)
RC 316	Special Topics in Health & Leisure (1-3)
RC 324	Independent Study/Therapeutic Rec (3)
RC 345	Youth Development Through Leisure (3)
RC 360	Therapeutic & Adapted Rec Svcs (3)
RC 450	Outdoor Adventure Therapy (3)
RC 460	Problems & Issues in Therapeutic Rec (3)
UI 354	Lifestyle Enhancement (3)*
UI 387	Environ Law & Public Policy (3)*
UI 427	Service & Community (3)*
UI 429	Environmental Ethics (3)*

***Only 3 hours of UI courses may be applied to the elective hours.**

NOTE: Therapeutic Recreation is a specific area in which professional certification can be earned. Inquire at the Department of Health, Human Performance and Recreation for specific information to prepare for certification. First Aid/CPR certification is strongly encouraged for all Recreation majors.

SOCIAL WORK**57 Hour Major - No Minor Required**

(See Admission to Social Work Program criteria under Admissions, page 14. 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	Undrstndg Cultrl & Soc Diversity (3)
SW 221	Interviewing Skills for Generalist Pract (3)
SW 242	Statistics for Social Scientists (3)
SW 307	Human Behav/Social Environment I (3)
SW 308	Human Behav/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	Meth of Soc Resrch/Generalist Practc (3)
SW 449	Social Work Integrative Seminar (3)
SW 450	Field Education (6)
SW 451	Field Education (6)

Choose 6 Hours From:

HS 551	Case Management (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) <i>(With approval from advisor, one other 300 or 400 level course may be substituted for a Social Work elective.)</i>

Additional Requirements: 9 Hours

SW/BS 103	Human Biology (3)
PY 101	Psych Perspectives/Human Behavior (3)
SO 102	Society, Culture & Social Behavior (3)

SPORT MANAGEMENT**42 Hour Major – Business Administration Minor Required****Required Core Courses:**

MK 351	Sport Marketing (3)
PE 201	Sport & Society (3)
SM 220	Intro to Sport Management (3)
SM 340	Sport Ethics (3)
SM 360	Sporting Event Management (3)
SM 370	Practicum in Sport Management (2)
SM 455	Sport-Related Venue Design & Operation (3)
SM 460	Fund of Sport Delivery Systems (3)
SM 465	Prof Seminar in Sport Mgmt (1)
SM 470	Sport Management Internship (12)
SM 540	Legal Aspects of Sport & Physical Activity (3)
SM 570	Mgmt & Leadership in Sport Organizations (3)

Required Support Courses:

MC 101	Mass Communication & Society (3)
PL 204	Ethical Theory (3)

- SC 105 Fundamentals of Oral Communication (3)
 SC 155 Fundamentals of Interpersonal Communication (3)

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE

For students planning careers in business. See Admission to Business Administration Programs criteria under Admissions, page 10. The areas from which majors must be chosen are:

- Accounting
- Administrative Systems Management
- Economics
 - Options: Business Economics
 - Financial Economics
- Finance
- International Business
- Management
 - Options: Human Resource Management
 - Organizational Leadership
- Management Information Systems
- Marketing
 - Options: Integrated Marketing Communications
 - Marketing Management
- Organizational Administration

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.

33 Hours Required

(A grade of 'C' is required in each core course.)

Required Courses:

- AC 221 Principles of Financial Accounting (3)
 AC 222 Principles of Managerial Accounting (3)
 BA 490 Business Policies & Strategies (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 Methods in Business (3)
 QM 358 Production/Operations Management (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)
 EC 215 Principles of Microeconomics (3)
 EC 225 Principles of Macroeconomics (3)
 EN 140 Rhetoric & Critical Thinking (3)
 MA 134 College Algebra (3)
 MA 139 Applied Calculus (3)
 MG 252 Business Communication (3)
 QM 257 Business Statistics (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

27 Hour Major - No Minor Required Required Courses:

- AC 321 Intermediate Accounting I (3)
 AC 330 Accounting Information Systems (3)
 AC 331 Cost/Managerial Accounting (3)
 AC 332 Intermediate Accounting II (3)
 AC 435 Income Tax Accounting (3)
 AC 437 Auditing (3)

Choose 9 Hours From:

- AC 375 Financial Statement Analysis (3)
 AC 531 Strategic/Cost Managerial Accounting (3)
 AC 534 Advanced Accounting (3)
 AC 540 International Perspectives in Acctg (3)
 AC 545 Advanced Income Tax Accounting (3)
 AC 547 Accounting Theory (3)
 AC 548 Not-For-Profit Accounting (3)
 AC 573 Internship in Accounting (3)
 BL 563 Law & Business (3)

ADMINISTRATIVE SYSTEMS MANAGEMENT

21 Hour Major - No Minor Required

Required Courses:

- AD 222 Microcomputer Appl for Business (3)
- AD 331 Advanced Word Processing (3)
- AD 339 Network Support Systems (3)
- AD 341 Information Systems Procedures (3)
- AD 353 Admin Systems Management (3)

Choose 6 Hours From:

- AC 330 Accounting Information Systems (3)
- AD 210 Business Computing Fundamentals (3)
- AD 337 Admin Systems Mgmt Internship (3)
- IS 130 Visual Basic Programming I (3)
- MG 356 Human Resources Management I (3)
- UI 301 Managerial Communication Processes (3)

ECONOMICS

25 Hour Major - No Minor Required

Choose One 25 Hour Option:

BUSINESS ECONOMICS

- EC 410 Macroeconomic Theory (3)
- EC 420 Microeconomic Theory (3)
- EC 498 Economics Seminar (1)
- EC 561 Managerial Economics (3)

Choose 6 Hours From:

- EC 351 Applied Economic Models (3)
- EC 380 Labor Economics (3)
- EC 490 Business & Econ Forecasting (3)
- UI 371 Government & Business (3)

Choose 9 Hours From:

- EC xxx EC course, (235-500 level)
- UI 349 Comparative Economic Systems (3)
- UI 366 Law and Economics (3)

FINANCIAL ECONOMICS

- EC 335 Monetary Economics (3)
- EC 410 Macroeconomic Theory (3)
- EC 420 Microeconomic Theory (3)
- FI 364 Modern Financial Institutions (3)
- EC 498 Economics Seminar (1)

Choose 6 Hours From:

- EC 351 Applied Economic Models (3)
- EC 470 Public Sector Economics (3)
- EC 580 International Economics (3)
- FI 368 Investments (3)

Choose 6 Hours From:

- EC xxx EC course (235-500 level)
- UI 322 International Political Economy (3)
- 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

24 Hour Major - No Minor Required

Required Courses:

- 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 Small Business 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 Intermediate Accounting (3)
- AC 375 Financial Statement Analysis (3)
- EC 335 Money & Banking (3)
- EC 351 Applied Economic Models (3)
- EC 410 Macroeconomic Theory (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)

Required minor to be selected in any department in the Harrison College of Business (except "Business Administration" minor).

FOREIGN LANGUAGE/ CULTURAL SUPPORT

Minor in one area of foreign language (18)

OR

For students with demonstrated proficiency in a foreign language, choose 9 hours from:

- AN383 Cultures of the Third World (3)
- PS 335 American Foreign Policy (3)

- PS 380 International Organizations (3)
- PS 460 Govt & Politics of Western Europe (3)
- PS 570 Comparative Government (3)
- PS 580 International Politics (3)
- PS 595 International Law (3)

(or other course(s) approved by Director of International Business Programs)

Additional Requirement:

Student must complete an international experience (international study, internship, etc.) which is approved by the Director of International Business Programs.

MANAGEMENT

21 Hour Major - No Minor Required

(A grade of 'C' or better is required in all required courses in the major.)

Required Management Core Courses:

- MG 362 Management Skills (3)
- MG 462 Org Theory & Design (3)

Choose One 15 Hour Option:

HUMAN RESOURCE MANAGEMENT

Required Courses:

- MG 356 Human Resource Mgmt I (3)
- MG 446 Human Resource Management II (3)

Choose 9 Hours from the Following:

- BA 361 Small Bus Mgmt/New Venture Creation (3)
- EC 380 Labor Economics (3)
- MG 354 Topics in Mgmt Comm (3)
- MG 456 Topics in Human Resource Mgmt (3)
- MG 457 Topics in Organizational Behavior (3)
- MG 470 Leadership in Mgmt (3)
- MG 473 Internship in Management (3)
- MG 548 Project Management (3)
- MG 550 Improving Team Performance (3)
- MI 410 Business Database Systems (3)
- IM 411 Total Quality Assurance (3)

ORGANIZATIONAL LEADERSHIP

Required Courses:

- MG 470 Leadership in Management (3)
- MG 550 Improving Team Performance (3)

Choose 9 Hours from the following:

- BA 361 Small Bus Mgmt/New Venture Creation (3)
- IM 411 Total Quality Assurance (3)
- MG 354 Topics in Mgmt Comm (3)
- MG 356 Human Resource Mgmt I (3)
- MG 446 Human Resource Mgmt II (3)
- MG 456 Topics in Human Resource Mgt (3)
- MG 457 Topics in Organizational Behavior (3)
- MG 473 Internship in Management (3)
- MG 548 Project Management (3)

- MI 410 Business Database Systems (3)

MANAGEMENT INFORMATION SYSTEMS

24 Hour Major – No Minor Required Required Courses:

- IS 130 Visual Basic Programming I (3)
- MI 410 Bus Database Systems (3)
- MI 420 Telecommunications Mgmt (3)
- MI 440 Web Design for Electronic Commerce (3)
- MI 445 Systems Analysis & Design (3)
- MI 464 Systems Implementation & Practice (3)

Choose 6 Hours From:

- AC 330 Acctg Info Systems (3)
- AD 339 Network Support Systems (3)
- CS 265 Computer Science II (4)

OR

- IS 330 Visual Basic Prgmg II (3)
- ET462 Networking I (3)
- MI 430 Knowl-Bsd Dec Sprt Syst for Mgmt (3)
- MI 439 Electronic Commerce (3)
- MI 575 Information Technology Mgmt (3)

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, MK 560)

Choose One Option:

INTEGRATED MARKETING COMMUNICATIONS

- MK 341 Public Relations (3)
- MK 342 Professional Selling (3)
- MK 443 Integrated Mktg Comm Pract (3)

MARKETING MANAGEMENT

- MK 346 Distribution Management (3)
- MK 348 Product & Pricing Strategy (3)
- MK 473 Marketing Internship (3)

OR

- MK 483 Pract in Strategic Marketing (3)

ORGANIZATIONAL ADMINISTRATION

24 Hour Major - No Minor Required

Required Courses:

- AC 375 Financial Statement Analysis (3)
 EC 561 Managerial Economics (3)
 MG 354 Topics in Management Communication (3)
 MG 362 Management Skills (3)
 MG 462 Org Theory & Design (3)
 MK 343 Advertising and Promotion (3)

Choose 6 Hours From Business Courses (300-500 Level)

BACHELOR OF SCIENCE IN EDUCATION DEGREE

For students planning to teach in elementary and secondary schools. Five curricula are offered:

- Early Childhood Education (pre-school-grade 3)
- Elementary Education (grades 1-6)
- Exceptional Child Education (grades K-12)
- Middle School Education (grades 5-9)
- Secondary Education (grades 9-12)

All majors in education must meet requirements for admission to Teacher Education as listed on page 14. Regardless of printed program requirements, any changes or additions mandated by the State of Missouri will be come effective on the date cited by the regulations.

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

EARLY CHILDHOOD EDUCATION

Professional Education Requirements: 63 Hours

(A minimum grade of "C" is required in each professional education course.)

BLOCK I: 5 Hours

- PY/CF 120 The Child: Devel/Conception to Adolsc (3)
 EL 120 Elementary Field Experience I (2)

BLOCK II: 15 Hours

- EF 304 School & Society (2)
 EL 313 Children & the Arts (3)
 EL 314 Elementary Field Experience (3)
 EL 315 Theories of Learning & Management (2)
 EL 316 Foundations of Reading Techniques (3)
 EL 317 Foundations of Lang Arts Techniques (2)

BLOCK III: 14 Hours

- EL 350 Elementary Field Experience (3)
 EL 351 Tech of Teaching Elem Science (2)

- EL 352 Tech of Teaching Elem Social Studies (1)
 EL 353 Tech of Teaching Elem Mathematics (2)
 EL 354 Corrective Reading Instruction (3)
 EX 390 Psych & Educ of the Except Child (3)

EARLY CHILDHOOD BLOCK: 18 Hours

- CE 340 Parent/School Collaborations (3)
 CE 365 Connctg Assmt & Curric in Early Yrs (2)
 CE 366 Devel Curric in Early Chldhd Educ (4)
 CE 368 Early Childhood Field Experience (3)
 CE 370 Lang Dvlpmnt of Young Child (3)
 CF 300 Parent Education (2)
 CF 301 Parent Education Lab (1)

BLOCK IV: 12 Hours

- CE 499 Portfolio Review (0)
 CE 433 Student Tchng Early Childhood (1st) (6)
 CE 434 Student Tchng Early Childhood (2nd) (6)

Special Early Childhood Requirements: 14 Hours

- BS 118 Intro Process Science Elem Teachers (1)
 CF 200 Guiding Alternatives (3)

OR

- CE 330 Classroom Management (3)
 CF 290 Preschool Participation (2)
 CF 291 Preschool Participation Laboratory (1)
 CF 316 Prenatal & Infant Growth (2)
 CF 317 Prenatal & Infant Growth Laboratory (1)
 FN 425 Health, Safety & Nutrition (3)
 MU 356 Music Skills/Classroom Teacher (1)

Additional Requirements: 33 Hours

(Some courses may fulfill University Studies requirements)

- BS 218 Biological Science: A Process Apprch (3)
 EC 101 Economic Problems & Policies (3)

OR

- EC 215 Principles of Microeconomics (3)

OR

- AG 201 World Food & Society (3)
 EN 140 Rhetoric & Critical Thinking (3)
 LI 243 Children's Literature (3)
 MA 118 Mathematics I (3)
 PH 218 Physical Science: A Process Approach (3)
 PS 103 U.S. Political Systems (3)
 SC 105 Fundamentals of Oral Communication (3)
 SO 102 Soc, Culture & Social Behvr (3)

OR

- SO 120 Cities and Society (3)

OR

- SW 207 Understanding Culture/Soc Diversity (3)
 UI 318 Earth Science: A Process Approach (3)
 US 105 American History I (3)

OR

- US 107 American History II (3)

ELEMENTARY EDUCATION

In addition to other requirements, an Area of Specialization must be chosen from:

Art	Music
Early Childhood	Physical Education
Foreign Languages	Science
Language & Literature	Social Studies
Mathematics	TESOL

Professional Education Requirements: 48 Hours

(A minimum grade of "C" is required in each professional education course.)

BLOCK I: 5 Hours

PY/CF 120	The Child: Devel/Conception to Adolsc (3)
EL 120	Elementary Field Experience (2)

BLOCK II: 15 Hours

EF 304	School & Society (2)
EL 313	Children & the Arts (3)
EL 314	Elementary Field Experience (3)
EL 315	Theories of Learning & Management (2)
EL 316	Foundations of Reading Techniques (3)
EL 317	Foundations of Lang Arts Techniques (2)

BLOCK III: 16 Hours

EL 350	Elementary Field Experience (3)
EL 351	Tech of Teaching Elem Science (2)
EL 352	Tech of Teaching Elem Social Studies (1)
EL 353	Tech of Teaching Elem Mathematics (2)
EL 354	Corrective Reading Instruction (3)
EL 355	Reading: Study Strategies & Skills (2)
EX 390	Psych & Educ of the Except Child (3)

BLOCK IV: 12 Hours

EL 499	Portfolio Review (0)
EL 453	Student Teaching Elementary (1st) (6)
EL 454	Student Teaching Elementary (2nd) (6)

Special Elementary Requirements: 10 Hours

BS 118	Intro Process Science Elem Teachers (1)
HL 210	Health & Safety (2)
MA 318	Math for Elementary Teachers II (3)
MA 418	Geometry for Teachers (3)
MU 356	Music Skills/Classroom Teacher (1)

Additional Requirements: 36 Hours

(These courses may also meet University Studies requirements)

BS 218	Biological Science: A Process Apprch (3)
EC 101	Economic Problems & Policies (3)
EN 140	Rhetoric & Critical Thinking (3)
LI 243	Children's Literature (3)
MA 118	Mathematics I (3)
PH 218	Physical Science: A Process Approach (3)
PS 103	U.S. Political Systems (3)
SC 105	Fundamentals of Oral Communication (3)

SO 102	Soc, Culture & Social Behvr (3)
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OR

SO 120	Cities and Society (3)
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OR

SW 207	Understanding Culture/Soc Diversity (3)
UI 308	Physical/Cultural Landscapes of the World (3)
UI 318	Earth Science: A Process Approach (3)
US 105	American History I (3)

OR

US 107	American History II (3)
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EXCEPTIONAL CHILD EDUCATION WITH ELEMENTARY CERTIFICATION

Professional Education Requirements: 77 Hours

(A minimum grade of "C" is required in each professional education course.)

BLOCK I: 11 Hours

EL 120	Elementary Field Experience (2)
EX 311	Intro to the Exceptional Child (3)
EX 318	Intro to Cross Categorical (3)
PY/CF 120	The Child:Devel/Conception to Adolsc (3)

BLOCK II: 18 Hours

EX 302	Language Devel of the Except Child (2)
EX 307	Parents & the Exception Child (3)
EL 313	Children & the Arts (3)
EL 314	Elementary Field Experience (3)
EL 315	Theories of Learning & Management (2)
EL 316	Foundations of Reading Techniques (3)
EL 317	Foundations of Lang Arts Techniques (2)

BLOCK III: 16 Hours

EL 350	Elementary Field Experience (3)
EL 351	Tech of Teaching Elem Science (2)
EL 352	Tech of Teaching Elem Social Studies (1)
EL 353	Tech of Teaching Elem Mathematics (2)
EL 354	Corrective Reading Instruction (3)
EL 355	Reading Study Strategies & Skills (2)
EX 312	Diag & Remed of L D in Math (3)

BLOCK IIIa: 17 Hours

EF 304	School & Society (2)
EX 304	Behavior/Management (3)
EX 305	Teach Strat/Career Dev for MH Adoles (3)
EX 309	Except Child Educ Field Experience (3)
EX 317	Assmt & Tech of Teaching Except Child (3)
EX 373	Techniques of Cross Categorical (3)

BLOCK IV: 12 Hours

EL 455	Student Teaching Elem (8)
EX 471	Student Teaching CC (6)
EX 499	Portfolio Review (0)

Special Exceptional Child

Requirement: 4 Hours

- BS 118 Intro Process Science Elem Teachers (1)
- HL 210 Health & Safety (2)
- MU 356 Music Skills/Classroom Teacher (1)

Additional Requirements: 33 Hours

(Some courses may also meet University Studies requirements)

- BS 218 Biological Science: A Process Apprch (3)
- EC 101 Economic Problems and Policies (3)
- EN 140 Rhetoric & Critical Thinking (3)
- LI 243 Children's Literature (3)
- MA 118 Mathematics I (3)
- MA 318 Mathematics II (3)
- MA 418 Geometry for Teachers (3)
- PH 218 Physical Science: A Process Approach (3)
- PS 103 U.S. Political Systems (3)
- SC 105 Fundamentals of Oral Communication (3)
- SO 102 Soc, Culture & Social Behvr (3)

OR

- SO 120 Cities and Society (3)

OR

- SW 207 Understanding Culture/Soc Diversity (3)
- UI 308 Physical & Cultural Landscapes (3)
- UI 318 Earth Science: A Process Approach (3)
- US 105 American History I (3)

OR

- US 107 American History II (3)

MIDDLE AND SECONDARY EDUCATION

MIDDLE SCHOOL EDUCATION: Grades 5-9

Middle School Professional Education

Requirements: 43 Hours

Middle Level students must choose two subject area concentrations and take the following professional education courses:

(A minimum grade of "C" is required in each professional education course.)

BLOCK I:

- SE 222 Intro to Middle & Secondary Educ (0)

BLOCK II: 17 Hours

- EF 304 School & Society (2)
- SE 275 Diversity in America's Schools (3)
- SE 301 Fundamentals of Middle School Education (3)
- SE 302 Teaching Reading & Writing in Mid School (3)
- SE 305 Secondary Block II Field Experience (2)
- SE 306 Theories of Learning & Management (2)
- SE 307 Teaching Reading/Secondary School (2)

BLOCK III: 13 Hours

- EX 390 Psychology & Educ of Except Child (3)
- SE 300 Technology to Enhance Learning (2)
- SE3XX Special Subject Techniques Course (3)*
- SE3XX Special Subject Techniques Course (3)*
- SE 371 Middle Block III Field Experience – Lang. Arts (1)*
- SE 372 Middle Block III Field Experience – Math (1)*
- SE 373 Middle Block III Field Experience – Science (1)*
- SE 374 Middle Block III Field Experience – Social Studies (1)*

BLOCK IV: 13 Hours

- EF 400 Seminar/Educ Issues for Student Teachers (1)
- SE 463 Student Teaching Secondary (1st) (6)
- SE 464 Student Teaching Secondary (2nd) (6)

Choose One Option

OPTION I: Middle School Majors must take Option I with Two Areas of Concentration (42-43 Hours) (See advisor for specific courses required in each option.)

Language Arts (21)

Mathematics (21)

Science (22)

Social Studies (21)

OPTION II: Single Concentration for Secondary Major adding Middle or an Elementary Major adding Middle (Middle Level must complete Option 1) (30-33 Hours)

Language Arts (30)

Mathematics (30)

Science (33)

Social Studies (30)

**Middle level majors must chose two areas of concentration, which require two Techniques courses and each Techniques course requires its own specialty SE37X Middle Block III Field Experience for a total of 2 hours of Block III field experience.*

SECONDARY EDUCATION

Secondary level majors must chose from the following majors:

- Art Education (K-12) Physical Education (K-12)
- Biology Education Physics Education
- Business & Marketing Education Social Studies Education
- Chemistry Education Spanish Education (K-12)
- English Education Speech & Theatre Education
- French Education (K-12) Unified Science: Biology
- German Education (K-12) Unified Science: Chemistry
- Industrial Education 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). Additionally, a Music Education major is available on the Bachelor of Music Education degree and a major in Family and Consumer Sciences Education is available on the Bachelor of Science in Family and Consumer Sciences Education degree.

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

Secondary Professional Education

Requirements: 37 Hours

BLOCK I:

SE 222 Intro to Middle & Secondary Educ (0)

BLOCK II: 14 Hours

- EF 304 School & Society (2)
- SE 305 Secondary Block II Field Experience (2)
- SE 306 Theories of Learning & Management (2)
- SE 307 Teaching Reading/Secondary School (2)
- SE 308 Fund of High School Education (3)
- SE 275 Diversity in America’s Schools (3)

BLOCK III: 10 Hours

- EX 390 Psychology & Educ of Except Child (3)
- SE 300 Technology to Enhance Learning (2)
- SE xxx Special Subject Techniques Course (3)
- SE 370 Secondary Block III Field Experience (2)

BLOCK IV: 13 Hours

- EF 400 Seminar/Educ Issues for Student Teachers (1)
- SE 463 Student Teaching Secondary (1st) (6)
- SE 464 Student Teaching Secondary (2nd) (6)

Additional Requirements – Middle School & Secondary Education: 12-18 hours

(These courses may meet University Studies requirements and must be completed with a minimum grade of “C”)

- EN 140 Rhetoric & Critical Thinking (3)
- PY 222 Development of the Adolescent (3)
- SC 105 Fundamentals of Oral Communication (3)
- Any BI/BS course (3)
- US105 American Hist. I or US107 American Hist. II (3)
- PS103 US Political Systems (3)
- Any CH, PH, GO course or UI373 Historical Geology (3-5)

Middle Level students only must also take:

MA 318 Middle School Mathematics (3)

OR

MA 118 Mathematics I (3)

AND

MA 318 Mathematics II (3)

ART EDUCATION

42 Hour Major - No Minor Required

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

Required Courses:

- AH 110 Art History Survey I (3)
- AH 210 Art History Survey II (3)
- AR 001 Freshman Core Review (0)
- AR 100 Drawing I (3)
- AR 104 Design Foundations (3)
- AR 106 3D Foundations (3)
- AR 150 Structural Figure Drawing (3)
- AR 201 Color Composition (3)
- AR 270 Art for the Elementary Teacher (3)
- AR 330 Fibers I (3)
- AR 332 Sculpture I (3)
- AR 342 Ceramics I (3)

Choose 3 Hours From:

- AR 202 Drawing II: Human Figure (3)
- AR 320 Watercolor I (3)
- AR 325 Painting (3)
- AR 530 Figure Painting (3)

Choose 3 Hours From:

- AR 302 Printmaking (3)
- AR 303 Screenprinting (3)
- AR 501 Intaglio Printmaking (3)
- AR 502 Litho Printmaking (3)

Choose 3 Hours Art Elective (300-500 level)

Two pieces of artwork must be entered in the juried student assessment exhibition each year.

BIOLOGY EDUCATION

51 Hour Major - No Minor Required

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

Required Courses:

- BI 003 Biology Major Field Assessment (0)
- BI 151 Biological Reasoning (3)
- BI 152 Intro to Scientific Investigation (1)
- BI 153 Intro to Organismal Biology (4)
- BI 154 Genetics and Cell Biology (4)
- BI 200 General Microbiology (3)
- BI 489 Analysis of Biological Issues (2)
- MA 133 Plane Trigonometry (3)
- MA 134 College Algebra (3)
- UI 422 Philosophy of Science (3)

Choose One Option:

BIOLOGY EDUCATION OPTION:

- BS105 Environmental Biology (3)

OR

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BI 332 General Ecology (3)
BS 113 Anatomy & Physiology I (4)

AND

BS 114 Anatomy & Physiology II (4)

OR

6 hours Biology electives – BI/BO/ZO 300 level or higher*

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 I (5)

AND

CH 186 General Chemistry II (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)

UNIFIED SCIENCE OPTION:

BI/BO/ZO 3xxx or higher (6)

BI 332 General Ecology (3)

BS 113 Anatomy & Physiology I (4)

BS 114 Anatomy & Physiology II (4)

CH 185 General Chemistry I (5)

CH 186 General Chemistry II (3)

GO 110 Physical Geology (3)

GO 220 Meteorology (3)

GO 320 Oceanography (3)

PH 120 Intro Physics I (5)

PH 121 Intro Physics II (5)

*One course must be BO or ZO prefix is BS 113/BS 114 are not chosen

BUSINESS AND MARKETING EDUCATION

42 Hour Major - No Minor Required

(A grade of 'C' or better is required in all courses within the major.)

AC 221 Princ of Financial Accounting (3)

AC 222 Princ of Managerial Accounting (3)

AD 101 Intro to Microcomputer Appl (3)

AD 210 Business Computing Fundamentals (3)

AD 222 Microcomputer Appl for Business (3)

AD 331 Advanced Word Processing (3)

AD 339 Network Support Systems (3)

AD 341 Information Systems Procedures (3)

AD 337 Admin Sytems Mgmt Internship (3)

AD 526 Improv of Curric in Busn & Mrktg Educ (3)

AD 527 Implement Busn & Mrktg Educ (3)

BL 255 Legal Environment of Business (3)

EC 215 Principles of Microeconomics (3)

MG 252 Business Communication (3)

MG 301 Principles of Management (3)

MK 301 Principles of Marketing (3)

Additional requirements:

UI 351 Public Opinion Management (3)

UI 359 Consumers: Buying/Having/Being (3)

UI 400 Business & Ethics (3)

CHEMISTRY EDUCATION

59-75 Hour Major - No Minor Required

(A grade of 'C' or better is required in all courses within the major.)

Required Courses:

CH 185 General Chemistry I (5)

CH 186 General Chemistry II (3)

CH 187 Qualitative Analysis (2)

CH 271 Quantitative Analysis (4)

CH 310 Intro to Physical Chemistry (5)

CH 341 Organic Chemistry I (4)

CH 342 Organic Chemistry Lab I (1)

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)

UI 331 Biochemistry I (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)

Additional Requirements: 6 Hours

MA 134 College Algebra (3)

MA 139 Applied Calculus (3)

Choose one option:

CHEMISTRY EDUCATION OPTION:

Choose one of the following:

GO 110 Physical Geology (3)

GO 220 Meteorology (3)

GO 320 Oceanography (3)

UI 318 Earth Science: Process Approach (3)

Choose one of the following:

BI 332 General Ecology (3)

- BS 105 Environmental Biology (3)
- CH 350/EV 350 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)

UNIFIED SCIENCE OPTION:

- BO 200 Plant Biology (3)
- CH 350/EV 350 Environmental Chem (3)
- GO 110 Physical Geology (3)
- GO 220 Meteorology (3)
- GO 320 Oceanography (3)
- MA 133 Plane Trigonometry (3)
- ZO 200 Animal Biology (3)

ENGLISH EDUCATION

36 Hour Major - No Minor Required

(A grade of 'C' or better is required in all courses within the major.)

Required Courses:

- EN 201 Writing About Literature (3)
- EN 378 Grammars of English (3)
- EN 379 Composition in the Secondary School (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 385 Literature in the Secondary School (3)
- LI 542 Literature for Young Adults (3)

Choose 3 Hours From:

- EN 486 Sociolinguistics (3)
- UI 500 History of English Language (3)
- UI 501 Principles of Language (3)

Choose 3 Hours From:

- EN 275 Intro to Creative Writing (3)
- EN 376 Advanced Composition (3)

Choose 6 Hours From:

- 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)

Additional Requirement:

- LI 256 Variety of Literature (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:

- FL 311 Survey of FR, GN & SN Lit (3)
- FR 311 Survey of French Literature II (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)

Additional Requirement:

Choose 3 Hours From:

- EH 366 Age of French Rev & Napoleon (3)
- EH 370 Europe in the 20th Century (3)
- EH 514 History of Modern France (3)
- FL 205 Art of French Cinema (3)
- GG 170 European Peoples & Civilization (3)
- UI 362 Contemporary French Culture (3)
- UI 375 European Film (3)
- WH 103 European Civilization (3)

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:

- FL 311 Survey of FR, GN & SN Lit (3)
- GN 310 Survey of German Literature I (3)
- GN 311 Survey of German Literature II (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 9 Hours of FL/GN Electives (300-500 level)

Additional Requirement:

Choose 3 Hours From:

- AN 101 Observing Other Cultures (3)
- AN 181 Intro to Cultural Anthropology (3)
- AN 341 Intro to Linguistic Anthropology (3)
- AN 390 European Prehistory (3)
- EH 370 Europe in the 20th Century (3)
- EH 516 History of Modern Germany (3)
- EH 527 Intellectual History of Europe (3)
- GG 170 European Peoples & Civilization (3)
- UI 375 European Film (3)
- WH 103 European Civilization (3)

INDUSTRIAL EDUCATION

**45 Hour Major - No Minor Required
15 hours of the major need to be 300-400 level courses**

(A grade of 'C' or better is required in all courses within the major.)

Required Courses:

- ET 160 Basic Electricity & Electronics (3)
- ET 245 Logic Circuits (3)
- IE 401 Technology Education Mgt (3)
- IM 102 Technical Communications (3)
- MN 170 Industrial Materials & Testing (3)
- MN 203 Industrial Materials & Process I (3)
- MN 204 Industrial Materials & Processes II (3)
- TG 120 Computer Aided Eng. Graphics (3)
- TG 180 Intro to Indus Graphics (3)

Choose 6 Hours From:

- TG 220 Solid Modeling & Rapid Prototyping (3)
- TG 284 Photography Fundamentals (3)

- TG 320 Resid Arch Drft & Design (3)
- TG 324 Design Modeling & Processes (3)
- TG 382 Electronic Publishing (3)
- TG 386 Interactive Multimedia & Animation (3)

Choose 6 Hours From:

- ET 275 Network Routing & Switching I (3)
- ET 375 Network Routing & Switching II (3)
- ET 470 Energy Management (3)
- MN 383 Fluid Power (3)

Choose 6 Hours From:

- CM 243 Construction Methods & Mats (3)
- MN 354 Computer Aided Manuf (3)
- MN 356 Robotics Fundamentals (3)

MATHEMATICS EDUCATION

43 Hour Major - No Minor Required

(A grade of 'C' or better is required in all courses within the major.)

Required Courses:

- 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 240 Analytic Geometry & Calculus III (3)
- MA 250 Foundations of Mathematics (3)
- MA 334 Computer 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 448 Mathematics Seminar (1)
- UI 438 Nature & Growth of Mathematical Thought (3)

Choose 3 Hours From:

- MA 523 Probability & Statistics I (3)
- MA 540 Projective Geometry (3)
- MA 545 Linear Algebra & Matrices (3)
- MA 546 Advanced Calculus I (3)

MIDDLE SCHOOL EDUCATION

(5-9 CERTIFICATE)

40-43 Hour Major - No Minor Required

(See advisor for specific courses required in each option.)

Choose One Option

- OPTION I: Two Areas of Concentration (42-43 Hours)
Language Arts (21)

Mathematics (21)
 Science (22)
 Social Studies (21)

OPTION II: One Area of Concentration (for Secondary
 adding Middle School only) (30-33 Hours)

Language Arts (30)
 Mathematics (30)
 Science (33)
 Social Studies (30)

PHYSICAL EDUCATION

(PK-12 CERTIFICATE)

49 Hour Major - No Minor Required

*(A grade of 'C' or better is required in all courses within
 the major.)*

Required Courses:

BS 113 Anatomy & Physiology I (4)
 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 & Sport Mgt (3)
 PE 239 Teaching Children Physical Education (3)
 PE 240 Rhythm, Plays & Games (2)
 PE 270 Teaching PE to Middle School Learner (3)
 PE 305 Motor Devel, Learning & Behavior (3)
 PE 310 Tests & Measrmnts in Phys Act/Sport (3)
 PE 341 Physiology of Conditioning (3)
 PE 408 Phys Educ for Individuals with Disabilities (3)
 PE 464 Kinesiology (3)

Choose One Hour From the Following:

AT 101 Aqua-Aerobics (1)
 AT 130 Aerobics (1)
 AT 132 Body Building (1)
 AT 136 Jogging/Walking for Fitness (1)
 AT 138 Low Impact Aerobics (1)

Choose One Hour From the Following:

DA 130 Ballroom Dance (1)
 DA 145 Line Dance (1)

PHYSICS EDUCATION

57-73 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)

MA 140 Calculus I (5)
 MA 145 Calculus II (4)
 MA 240 Calculus III (3)
 MA 245 Vector Calculus (2)
 PH 230 General Physics I (5)
 PH 231 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)
 UI 422 Scientific Reasoning (3)

Choose 3 Hours From:

BI 332 General Ecology (3)
 BS 105 Environmental Biology (3)
 GO 305 Environmental Geoscience (3)
 UI 360 Recycling & Waste Mgt (3)
 UI 372 Earthquakes & Society (3)

Choose one option:

PHYSICS EDUCATION OPTION:

CH 181 Introductory Chemistry I (5)

OR

CH 185 General Chemistry I (5)

AND

CH 186 General Chemistry II (3)

Choose 3 Hours From:

BS 108 Biology for Living (3)
 BS 218 Bio Science: A Process Approach (3)
 BO 200 Plant Biology (3)
 ZO 200 Animal Biology (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)

UNIFIED SCIENCE OPTION:

CH 185 General Chemistry I (5)
 CH 186 General Chemistry II (3)
 BO 200 Plant Biology (3)
 GO 110 Physical Geology (3)
 GO 220 Meteorology (3)
 GO 320 Oceanography (3)
 ZO 200 Animal Biology (3)

Choose 3-4 Hours From:

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

SOCIAL STUDIES

54 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)

OR

UI 339 North American Indians (3)

EC 101 Econ Problems & Policies (3)

OR

EC 215 Principles of Microeconomics (3)

GG 150 People & Places of the World (3)

OR

UI 452 Historical Geography of the World (3)

GH 315 Historiography (3)

PS 103 U.S. Political Systems (3)

PY 101 Psych Perspective/Human Behav (3)

OR

PY 102 Introduction to Psychology (3)

SO 102 Soc, Culture & Social Behav (3)

UI 401 American Cultural Landscapes (3)

US 105 American History I (3)

OR

US 107 American History II (3)

WH 101 Early European Civ (3)

OR

GH 110 Chinese Civilization (3)

OR

GH 115 Ancient Greece & Rome (3)

WH 103 Modern European Civ (3)

OR

GH 100 African Civilization (3)

OR

GH 125 Islamic Civilization (3)

OR

GH 130 Latin American Civilization (3)

Choose 3 Hours From:

WH 430 History of China & Japan (3)

WH 440 Modern Middle East (3)

WH 520 Latin American Colonial History (3)

WH 524 History of Mexico (3)

WH 550 The Atlantic World (3)

UI 304 History & Culture of West Africa (3)

UI 503 Alexander the Great (3)

Choose 6 Hours From:

US History Courses (300-500 level)

Choose 3 Hours From:

US History Courses (any level)

Choose 3 Hours From:

EH/GH/WH History Courses (300-500 level)

Choose 3 Hours From:

PS 355 Less Developed Nations (3)

PS 570 Comparative Political Systems (3)

UI 350 Middle East Politics (3)

Choose 3 Hours From:

PS 335 American Foreign Policy (3)

PS 360 Political Parties & Voting Behavior (3)

PS 365 Legislative Process in the U.S. (3)

PS 390 The American Judicial System (3)

PS 490 Constitutional Law (3)

UI 320 American Presidency (3)

UI 357 Early Am 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:

FL 311 Survey of FR, GN & SN Lit (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)

Additional Requirement:

Choose 3 Hours From:

AN 101 Observing Other Cultures (3)

AN 181 Intro to Cultural Anthropology (3)

AN 341 Intro to Linguistic Anthropology (3)

AN 360 Ancient Civ of Meso-America (3)

EH 370 Europe in the 20th Century (3)

GH 125 Islamic Civilization (3)

GH 130 Latin American Civilization (3)

UI 375 European Film (3)

WH 520 Latin America Colonial History (3)

WH 524 Hist of Mexico Since 1810 (3)

SPEECH & THEATRE EDUCATION

36 Hour Major - No Minor Required

(A grade of 'C' or better is required in all courses within the major.)

Required Courses:

- SC 155 Fund of Interspers Communication (3)
 SC 160 Intercollegiate Debate (2)

OR

- SC 161 Intercollegiate Debate (2)
 SC 200 Advanced Public Speaking (3)
 SC 314 Argumentation & Problem Solving (3)
 TH 155 Makeup (3)
 TH 218 Acting I (3)
 TH 231 Stagecraft I (3)
 TH 305 Rehearsal & Production (2)
 TH 316 Acting II (3)
 TH 351 Costume Design I (3)
 TH 385 Directing I (3)
 TH 485 Directing II (3)

Additional Requirement:

- UI 425 Persuasion (3)

BACHELOR OF SCIENCE IN FAMILY AND CONSUMER SCIENCES EDUCATION DEGREE

For students planning to teach occupational family and consumer sciences or consumer homemaking 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

35 Hour Major - No Minor Required

Required Courses:

- CF 102 Personal & Family Relationships (2)
 CF 120 The Child: Devel/Conception to Adolsc (3)
 CF 209 Intro to Family Systems (3)
 CF 430 Parent Child Interaction (3)
 CT 230 Apparel Analysis (3)
 FE 200 Family Resource Management (3)
 FN 205 Selection & Preparation of Foods (3)
 FN 235 Nutrition for Health (3)

Choose 3 hours from:

- CF 402 Marriage Interaction (3)
 PY 325 Psych Develpmnt of the Family (3)
 Additional Elective Hours Approved by Advisor (3)

Professional Education

Requirements: 37 Hours

Block I:

- SE 222 Intro to Middle & Secondary Educ (0)

Block II: 11 Hours

- EF 304 School & Society (2)
 SE 305 Secondary Block II Field Experience (2)
 SE 306 Theories of Learning & Management (2)
 SE 307 Teaching Reading/Secondary School (2)
 SE 308 Fund of High School Education (3)
 SE 275 Multicultural Education (3)

Block III: 10 Hours

- EX 390 Psych & Education of Excep Child (3)
 SE 300 Technology to Enhance Learning (2)
 SE 312 Tech of Tchng Vocational Home Econ (3)
 SE 370 Secondary Block III Field Experience (2)

Block IV: 13 Hours

- EF 400 Seminar/Educ Issues for Student Teachers (1)
 SE 463 Student Teaching Secondary (1st) (6)
 SE 464 Student Teaching Secondary (2nd) (6)

Additional requirements: 12-18 hours

(These courses may meet University Studies requirements and must be completed with a minimum grade of "C")

- EN 140 Rhetoric & Critical Thinking (3)
 PY 222 Development of the Adolescent (3)
 SC 105 Fundamentals of Oral Communication (3)
 Any BI/BS course (3)
 US105 American History I

OR

- US107 American History II (3)
 PS103 US Political Systems (3)
 Any CH, PH, GO course

OR

- UI373 Historical Geology (3-5)

BACHELOR OF MUSIC EDUCATION DEGREE

For students planning to teach elementary or secondary school music.

MUSIC EDUCATION

65-66 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)
- 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)
- UI 402 Music in World Cultures (3)

Choose three 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)

Choose One Option:

INSTRUMENTAL (20 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 (2)
- ME 261 Percussion Techniques (2)
- ME 300 Marching Band Techniques I (.5)
- ME 400 Marching Band Techniques II (.5)
- MU 220 Class Voice (2)
- MU 344 Conducting/ Wind Lit (2)
- MU 3xx Instrumental Ensemble (7)

VOCAL (18 Hours)

- ME 443 Choral Literature (2)
- ME 473 Tech of Teaching Choral Lit (2)
- MP 1xx Applied Piano (1+1)
- MU 114 Singer's Diction (2)
- MU 343 Conducting/Choral Lit (2)
- MU 3xx Choral Ensemble (7)
- MU 424 Vocal Pedagogy (2)

OR

- MU 430 Pedagogy: Applied Area (2)

Professional Music Education Requirements:

Instrumental & Vocal - 39 Hours

Block I: 5 Hours

- ME 222 Principles of Teaching Music (2)
- PY 222 Development of the Adolescent (3)

Block II: 13 Hours

- EF 304 School & Society (2)
- ME 270 Field Experience Block II (3)
- ME 271 Theories/Learning & Management (2)
- ME 272 Techniques/Teaching Reading in Music (2)
- ME 371 General Music Methods: Elem & Sec (4)

Block III: 7 Hours

- EX 390 Psychology & Educ of the Excep Child (3)
- ME 370 Field Experience Block III (1)
- ME 372 Instrumental Techniques: Elem & Sec (3)

OR

- ME 373 Choral Techniques: Elem & Sec (3)

Block IV: 13 Hours

- EF 400 Seminar/Educ Issues for Student Teachers (1)
- SE 463 Student Teaching Experience I (6)
- SE 464 Student Teaching Experience II (6)

Additional requirements: 12-18 hours

(These courses may meet University Studies requirements and must be completed with a minimum grade of "C")

- EN 140 Rhetoric & Critical Thinking (3)
- PY 222 Development of the Adolescent (3)
- SC 105 Fundamentals of Oral Communication (3)
- Any BI/BS course (3)
- US105 American History I

OR

- US107 American History II (3)
- PS103 US Political Systems (3)
- Any CH, PH, GO course

OR

- UI373 Historical Geology (3-5)

BACHELOR OF MUSIC DEGREE

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

MUSIC

76-82 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 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)
 - MU 001 Piano Proficiency (0)
 - MU 002 Sophomore Review (0)
 - MU 110 Recitals & Concerts (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)

Choose One Option:

COMPOSITION (42 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 4xx Applied Music: Piano (2)
- MU 430 Pedagogy: Applied Area (2)
- MU 432 Literature: Applied Area (2)
- MU xxx Major Ensemble (8)
- MU xxx Music Electives MU 299 or above (8)

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)

VOCAL PERFORMANCE (38 Hours)

- MP 101 Applied Music: Voice (1+1)
- MP 202 Applied Music: Voice (2+2)
- MP 303 Applied Music: Voice (3+3)
- MP 403 Applied Music: Voice (3+3)
- MU 114 Singer's Diction (2)
- 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)

GUITAR PERFORMANCE (34 Hours)*

**Guitar Performance is a concentration area, not an option and is listed below due to specialized courses.*

- MP 1xx Applied Music: Guitar (2)
- MP 2xx Applied Music: Guitar (4)
- MP 3xx Applied Music: Guitar (6)
- MP 4xx Applied Music: Guitar (6)
- MU 338 Lute & Guitar Tablature (2)
- MU 384 Guitar Ensemble (6)
- MU 3xx Instrumental Ensemble (not including Guitar Ensemble) (2)
- MU 430 Pedagogy: Applied Area (2)
- MU 432 Literature: Applied Area (2)
- MU xxx Music Electives MU 300 or above (2)

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 to BSN) program in nursing after licensure as a registered nurse.

See Admission to Nursing Programs criteria under Admissions, page 13. To be retained in the nursing program students must maintain at least a cumulative GPA of 2.0 in academic work at the University. Students who receive a grade below a 'C' in any nursing course or any required support course are not eligible to continue in the program, and must apply for readmission to the Department of Nursing Student Affairs Committee.

The Nursing curriculum is currently undergoing curriculum change. Please access the department's website

(www2.semo.edu/nursing) or contact the department directly for specific information.

ASSOCIATE DEGREES

The following statements pertain to all associate degrees:

- A minimum of 20 hours must be completed in residence 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 EN 099 or EN 110; and MA 095; 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 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 65 Hours
University Studies requirements 21 Hours
Required Courses 37 Hours
Additional Requirements 6 Hours

Required Courses:

- CF 102 Personal & Family Relations (2)
 CF 120 The Child: Dev/Concept to Adolsc (3)
 CF 126 Facilitating Development/Young Children (3)
 CF 200 Guiding Alternatives (3)
 CF 210 Field Experience in Early Child Programs (2)
 (waived for documented work experience in day care center)
 CF 290 Preschool Participation I (2)
 CF 291 Preschool Participation Lab (1)

- CF 300 Parent Education (2)
 CF 301 Parent Education Lab (1)
 CF 312 Org & Mgt of Child Care Centers (3)
 CF 316 Prenatal/Infant Grwth & Stimulation (2)
 CF 317 Prenatal/Infant Growth & Stimulation Lab (1)
 FN 425 Health, Nutrition & Safety of Young Child (3)
 CF 450 Teaching Young Children, Ages 3-5 (3)
 xx xxx Electives approved by advisor (6)

Additional Requirements:

- AR 270 Art for the Elementary Teacher (3)
 EN 100 English Composition I (3)
 EN 140 Rhetoric & Critical Thinking (3)
 LI 243 Children's Literature (3)
 PS 103 U.S. Political Systems (3)

OR

- PS 104 Comparative Political Systems (3)
 PY 101 Psych Persp on Human Behavior (3)

CPR CERTIFICATION IS REQUIRED FOR DEGREE

NOTE: MA 095 Intermediate Algebra is required unless waived by appropriate score on ACT Math subtest, but does not count toward hours for graduation.

ASSOCIATE OF APPLIED SCIENCE IN COMPUTER TECHNOLOGY

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

70 Hours Required

Core Requirements: 36 Hours

- EN 100 English Composition I (3)

OR

- EN 140 Rhetoric & Critical Thinking (3)
 IM 102 Technical Communications (3)
 IS 175 Information Systems I (3)

OR

- AD 101 Intro Micro Applications (3)
 IS 275 Information Systems II (3)

OR

- AD 339 Network Support Sys (3)
 MA 133 Plane Trigonometry (3)
 MA 134 College Algebra (3)
 MN 260 Tech Computer Programming (3)
 PH 120 Introductory Physics I (5)
 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)

**CH 181 required for Automated Manufacturing Option*

Choose One 33 Hour Option:

AUTOMATED MANUFACTURING

- ET 160 Basic Electricity & Electronics (3)
- ET 194 Intro to PLCs (3)
- IM 311 Statistical Process Control (3)
- MN 170 Industrial Materials & Testing (3)
- MN 203 Industrial Materials & Processes I (3)
- MN 204 Industrial Materials & Processes II (3)
- MN 354 Computer Aided Mfg (3)
- MN 356 Robotics (3)
- MN 412 Advanced Manufacturing System (3)
- TG 120 Computer Aided Eng. Graphics (3)
- TG 220 Solid Modeling & Rapid Prototyping (3)

MICROCOMPUTER SYSTEMS

- ET 160 Basic Electricity & Electronics (3)
- ET 194 Intro to PLCs (3)
- ET 245 Logic Circuits (3)
- ET 254 Fiber Optics & Network Comm (3)
- ET 255 Microcomputer Maint & Trblshng (3)
- ET 275 Network Routing & Switching I (3)
- ET 375 Network Routing & Switching II (3)
- ET 395 Server Maint & Trblshng (3)
- IM 301 Industrial Safety (3)
- IM 317 Industrial Internship (3)

OR

- MN 412 Adv Manufacturing Systems (3)
- MI 445 System Analysis & Design (3)

TECHNICAL COMPUTER GRAPHICS

- TG 120 Computer Aided Eng. Graphics (3)
- TG 180 Intro to Indus Graphics (3)
- TG 220 Solid Modeling & Rapid Prototyping (3)
- TG 300 Vect & Bitmp Graph for Indus (3)
- TG 320 Resid Arch Drft & Design (3)
- TG 322 Comm Arch Drft & Design (3)
- TG 324 Design Modeling & Processes (3)
- TG 382 Electronic Publishing (3)
- TG 386 Interactive Multimedia & Animation (3)
- TG 482 Multicolor Print Processes (3)
- TG 490 Advanced Graphic Projects (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, pre-veterinary, and pre-vocational agriculture education.

Pre-Architecture Curriculum

Students should complete a prescribed program of 34 credit hours at the University to apply toward a degree in architecture from Kansas State University. Students planning to transfer to another architecture school should consult with an advisor from that institution. All students must consult with the pre-architecture advisor in the Department of Industrial and Engineering Technology prior to the beginning of their program of study.

Pre-Chiropractic Curriculum

Pre-Chiropractic is not a major at Southeast Missouri State University. It is possible to gain preparation for chiropractic school while pursuing any academic major in the university; however, most students find that the preponderance of biology course work required by chiropractic schools make the biomedical sciences option in biology an attractive major. The Biology: Biomedical Science option is designed specifically for students in the pre-health professions. There are not a large number of chiropractic schools in the United States and students should obtain the admission requirements from the schools to which they plan to apply. This information should then be used to plan the student's academic program. This planning is done in consultation with the pre-chiropractic advisor in the Department of Biology.

Pre-Dental Curriculum

Pre-Dentistry is not a major at Southeast Missouri State University. It is possible to gain preparation for dental school while pursuing any academic major in the university; however, most students find that the preponderance of biology coursework required by dental schools, and for preparation for the DAT, makes the biomedical sciences option in biology an attractive major. The Biology: Biomedical Sciences option is designed especially for students in the pre-health professions. Students should see the pre-dental advisor during their first semester at Southeast. Most dental schools have similar pre-professional course requirements. It is recommended, however, that you check out the specific requirements for the schools you are interested in and include these in your planning. For example, three schools require calculus. Make your "pool" of potential schools as big as possible. There are 54 accredited dental schools in the United States. This information can be obtained from the pre-dental 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 the University of Missouri-Rolla and the University of Missouri-Columbia. Transfer brochures have been prepared in cooperation with both universities 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. Generally, this necessitates attending an additional summer term prior to transferring. Provisions have been made to accommodate students in this category.

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. A pre-engineering 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

Pre-medicine is not a major at Southeast Missouri State University. It is possible to gain preparation for medical school while pursuing any academic major in the university; however, most students find that the preponderance of biology coursework required by medical schools, and for preparation for the MCAT, makes the biomedical sciences option in biology an attractive major. The Biology: Biomedical Sciences option is designed especially for students in the pre-health professions. Students should see the pre-medical advisor during their first semester at Southeast. Medical school admission has been characterized for some years by more applicants than entering students. This trend will certainly continue for some years in the future. As a result, students should realistically prepare themselves for more than one career. Allied elective coursework in biology, chemistry, and physics can broaden career opportunities. A strong background in liberal arts is desirable. Information about the program is available from a pre-medical advisor in the Department of Biology.

Pre-Optometry Curriculum

Pre-optometry is not a major at Southeast Missouri State University. It is possible to gain preparation for optometry school while pursuing any academic major in the university; however, most students find that the preponderance of biology coursework required by optometry schools, and for preparation for the OAT, makes the biomedical sciences option in biology an attractive major. The Biology: Biomedical Sciences option is designed especially for students in the pre-health professions. Students should see the pre-optometry advisor during their first semester at Southeast. There are only 17 optometry schools in the United States and the entrance requirements are quite similar, however there are slight variations. Students should be familiar with the entrance requirements for several schools (for example, three schools require two semesters of organic chemistry) and prepare themselves appropriately so they could potentially be eligible for all of those schools. This planning is done in consultation with the pre-optometry advisor in the Department of Biology.

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. Bruce Hathaway, the pre-pharmacy advisor in the Department of Chemistry, as early as possible in the enrollment process.

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 prerequisite courses. Prerequisite courses commonly include biology, chemistry, mathematics, psychology and English.

Some physical therapy programs accept transfer students after completion of 60 hours of prerequisite courses, after which students continue as juniors in a combined BS/MS program. Students planning to apply to such programs do not need to declare a major at Southeast but should declare pre-physical therapy.

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-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 recommended. 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 School of Polytechnic Studies Advising Center.

Pre-Vocational Agriculture Education Curriculum

Students interested in certification to teach Vocational Agriculture enroll in a three-year pre-agriculture education program and complete the fourth year at a certifying institution.

University Studies and core courses in agriculture

may be completed prior to transfer. Students will apply for admission to a teacher education program after transferring.

Agricultural education prepares students to be instructors of vocational agriculture in public high schools and area vocational technical schools. It can also prepare students for careers in many other areas such as agricultural business and industry.

Students may specialize in particular fields such as mechanization, economics, agronomy or horticulture. It is an exciting field that provides the opportunity to guide and develop, through instruction, the future leaders of our nation's agricultural industry.

