

BACCALAUREATE COUNCIL  
Fourth Meeting/2018-19 Academic Year  
December 6, 2018

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**COLLEGE OF BUSINESS**

GEC Other Catalog Change Page 92, 2018-19 Undergraduate Catalog

**Minor in Business Administration (36-41)**

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OR STAT ~~304~~ 200 - Elementary Statistics (4),  
OR STAT ~~350~~ 300 - Introduction to Probability and Statistics (93)

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**Department of Finance (FINA)**

GEC Course Revision Page 100, 2018-19 Undergraduate Catalog

320. PRINCIPLES OF FINANCE (3). .... PRQ: ACCY 206 or ACCY 288, and UBUS 223 or STAT ~~208~~  
100 or STAT ~~304~~ 200 or STAT ~~350~~ 300, and sophomore standing.

GEC Other Catalog Change Page 99, 2018-19 Undergraduate Catalog

**Minor in Finance (24-25)**

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**Pre-admission Requirements (6-7)**

UBUS 223 - Introduction to Business Statistics (3),  
OR STAT ~~304~~ 200 - Elementary Statistics (4),  
OR STAT ~~350~~ 300 - Introduction to Probability

**Department of Marketing (MKTG)**

GEC Course Revision Page 109-112, 2018-19 Undergraduate Catalog

443. MARKETING RESEARCH (3). .... PRQ: FINA 320 and MGMT 335 and MKTG 295 and OMIS  
338 (for business majors); MKTG 295, and UBUS 223 or STAT ~~304~~ 200 or STAT ~~350~~ 300 (for  
nonbusiness majors).

GEC Other Catalog Change Page 109-112, 2018-19 Undergraduate Catalog

**Minor in International Marketing (27-28)**

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**Pre-admission Requirements (9-10)**

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OR STAT ~~304~~ 200 - Elementary Statistics (4)  
OR STAT ~~350~~ 300 - Introduction to Probability and Statistics (3)

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**Minor in Marketing (24-24)**

↓  
**Pre-admission Requirements (9-10)**

↓  
OR STAT ~~208~~ **100** - Basic Statistics (3),  
OR STAT ~~304~~ **200** - Elementary Statistics (4),  
OR STAT ~~350~~ **300** - Introduction to Probability and Statistics (3)  
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**Department of Operations Management and Information Systems (OMIS)**

GEC Course Revision Page 116, 2018-19 Undergraduate Catalog

OMIS 324. INTRODUCTION TO BUSINESS DATA ANALYTIC TOOLS (3). *Crosslisted as STAT 324X.* .... PRQ: UBUS 223 or STAT ~~304~~ **200**.

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GEC Other Catalog Change Page 114, 2018-19 Undergraduate Catalog

**Minor in Business Analytics (24-25)**

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**Pre-Admission Requirements (9-10)**

UBUS 223 - Introduction to Business Statistics (3),  
OR STAT ~~208~~ **100** - Basic Statistics (3),  
OR STAT ~~304~~ **200** - Elementary Statistics (4)

**COLLEGE OF EDUCATION**

**Department of Counseling, Adult and Higher Education**

BOT Other Catalog Change Page 120, 2018-19 Undergraduate Catalog

**Minor in Counseling**

The counseling minor is appropriate for undergraduate students who may be interested in a wide range of careers, including school counseling, rehabilitation counseling or mental health counseling, counseling psychology, clinical psychology, social work or related fields.

Communication and interpersonal skills are essential components across disciplines. The counseling minor provides both the academic and experiential preparation for the student planning a career working with

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diverse populations in various fields. The courses in the minor will present an overview of the counseling profession, exploration of multiculturalism and diversity, development of communication skills and introductory helping skills, and career preparation. The minor is designed to complement a wide range of academic majors and to provide students with the knowledge and skills necessary for professional and personal success post-graduation. ~~Graduates~~ Students who successfully complete the minor in counseling will be prepared to work in social services, mental health agencies, and virtually any business setting in which strong communication or interpersonal skills are needed. This minor also prepares students for graduate studies in counseling, psychology, social work, or related helping professions.

Students must complete 18 semester hours for this minor. Elective courses for the minor are chosen to complement the student's background, interests, and career plans.

**Required Courses (12)**

CAHC 211 - Career Planning (3)  
CAHC 400 - Exploration in the Counseling Profession (3)  
CAHC 425 - Human Relation Skills and Strategies (3)  
OR REHB 493 - Counseling in Rehabilitation Services (3)  
SCL 100 - Foundation of Social Change Leadership (3)

**Elective Courses (6)**

CAHC 490 - Workshop in Counseling (1-3)  
CAHC 493 - Crisis ~~Counseling~~ Intervention in the Helping Professions (3)  
\*HDFS 230 - Child Development (3)  
\*HDFS 280 - Human Development, the ~~family-Family,~~ and ~~society-Society~~ (3)  
HDFS 284 - Introduction to Family Relationships (3)  
HDFS 477 - Domestic Violence and Trauma in the Family (3)  
HDFS 487 - Overview of Marriage and Family Therapy (3)  
\*PSYC 102 - Introduction to Psychology (3)  
\*PSYC 225 - Lifespan ~~development~~ Development: Childhood Through Adulthood (3)  
\*REHB 200 - Disability in Society (3)  
REHB 300 - Psychiatric Disability in Society (3)  
REHB 327 - Introduction to Rehabilitation Services (3)  
REHB 493 - Counseling in Rehabilitation Services (3)

Additional relevant courses may be used to satisfy elective requirements upon approval by the counseling minor coordinator.

**Department of Curriculum and Instruction**

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**Emphasis 2. Elementary Mathematics Education (14)**  
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STAT ~~304~~ 200 - Elementary Statistics (4)  
↓  
**Major in Middle Level Teaching and Learning (B.S.Ed.)**  
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**Major Content Area Option: Mathematics (29-31)**  
↓  
\*STAT ~~304~~ 200 - Elementary Statistics (4)  
↓  
**Minor Content Area Option: Mathematics (26)**  
↓  
\*STAT ~~304~~ 200 - Elementary Statistics (4)  
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**Department of Special and Early Education**

BOT Other Catalog Change

Page 144 - 145, 2018-19 Undergraduate Catalog

**Major in Early Childhood Education (B.S.)**

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**Total Hours for Professional Educator License with Early Childhood Education Endorsement and  
Preschool Special Education Approval: 109**

**Emphasis 1. Early Childhood Education, Professional Services Provider**

The early childhood professional services provider emphasis prepares candidates to work with young children and families in agencies, service organizations, private school settings, and provide home-based services. This program does not lead to professional educator licensure in the State of Illinois. As part of early childhood professional service provider requirements, candidates must earn a grade of C or better in GEOG 202 or GEOG 204; HDFS 230; #HIST 260 or #HIST 261; #LTIC 301; LTIC 400; LTIC 420; LTIC 435; LTIC 445; LTIC 447; LTLA 305; LTLA 361; LTRE 309; MATH 201; POLS 100; PSYC 102; SEEC 230; SEEC 300; SEEC 340; ^SEEC 343; SEEC 401 ^SEEC 403; SEEC 412; SEEC 425; SEEC 430; SESE 240; SESE 423; SESE 424; and SESE 426.

Candidates must earn a grade of C or better in one life science course, one earth/space science course, one physical science course, and two elective courses. Also, candidates must earn a grade of S in all early field experience and internship courses (SEEC 282, SEEC 382, SEEC 489).

**Requirements in Department (55)**

SEEC 230 - Exploring the Early Childhood Education Major (1)

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SEEC 282 - Educational Participation in Clinical Experiences: Early Childhood Education (3)  
SEEC 300 - Observation and Assessment of Young Children (3)  
SEEC 340 - The Language Arts and Social Studies for the Primary Child (3)  
SEEC 343 - Teaching Science and Mathematics to Children Ages 5-8 (3)  
SEEC 382 - Practicum in Early Childhood Education (3)  
\*SEEC 401 - Play Development of the Young Child (3)  
SEEC 403 - Primary Curriculum (3)  
SEEC 412 - Trends and Issues in Professional Services for Young Children (3)  
SEEC 425 - Developing Social/Emotional Problem-Solving Competencies in Young Children (3)  
SEEC 430 - Preschool and Kindergarten Curriculum (3)  
SEEC 489 - Internship in Early Childhood Educational Services (12)  
SESE 240<sup>1</sup> - Introduction to Special Education (3)  
SESE 423 - Observation and Assessment in Early Childhood Special Education (3)  
SESE 424 - Methods and Strategies for Promoting Development and Teaching Infants, Toddlers, and Young Children with Disabilities and Special Needs (3)  
SESE 426 - Working with and Supporting Families of Young Children with Disabilities and Special Needs (3)

**Requirements outside Department (54)**

GEOG 202 - World Regional Geography (3)  
OR GEOG 204 - Geography of Economic Activities (3)  
HDFS 230<sup>1</sup> - Child Development (3)  
#\*HIST 260<sup>1</sup> - American History to 1865 (3)  
OR #\*HIST 261<sup>1</sup> - American History Since 1865 (3)  
LTIC 301 - Teaching with a Multicultural Perspective (3)  
LTIC 400 - Introduction to Teaching English Language Learners (3)  
LTIC 420 - Methods and Materials for Teaching English Language Learners in the Content Areas (3)  
LTIC 435 - Teaching English Language Learners in Bilingual Programs: Methods and Materials (3)  
LTIC 445 - Applied Linguistics for Teachers of English Language Learners (3)  
LTIC 447 - Assessment of English Language Learners (3)  
LTLA 305 - Language Development (3)  
LTLA 361 - Literature for the Young Child (3)  
LTRE 309 - Emerging Literacy and Beginning Reading Instruction Through Age 8 (3)  
\*MATH 201<sup>1</sup> - Foundations of Elementary School Mathematics (3)  
\*POLS 100 - American Government and Politics (3)  
\*PSYC 102<sup>1</sup> - Introduction to Psychology (3)  
Science courses (physical, life, earth/space) approved by adviser (9)

**Total hours for Emphasis 1, Professional Services Provider-emphasis: 99**

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**Major in Special Education (B.S.Ed.)**

In the B.S. Ed. in Special Education, candidates focus their studies in one emphasis: Learning Behavior Specialist I (LBS I), Visual Impairments, Vision Rehabilitation Therapy (VRT), or Special Populations. The LBS I cross-categorical emphasis prepares candidates to obtain an Illinois professional educator license (PEL) with entitlement as a Learning Behavior Specialist I (Pre-K - age 21). The emphasis in Visual Impairments prepares candidates to obtain an Illinois educator license a PEL with entitlement in the area of Teacher of Students Who Are Blind or Visually Impaired (Pre-K - age 21). The VRT emphasis prepares candidates to obtain national licensure as rehabilitation teachers from the Association for the Education and Rehabilitation of the Blind and Visually Impaired. Candidates in the VRT emphasis prepare to teach independent living skills to individuals with visual impairments. The VRT program does not lead to a PEL in the State of Illinois. The Special Populations emphasis prepares candidates to work with individuals with a range of disabilities across the lifespan in settings such as group homes, private agencies, and community organizations. The Special Populations emphasis does not lead to a PEL in the State of Illinois.

**Entrance and Retention in the LBS I and Visual Impairments Program Emphases with Professional Educator Licensure**

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**Transfer Students**

Individuals who have earned the Associate of Arts in Teaching (A.A.T.) in Special Education may apply to transfer into ~~teacher~~ the professional educator or licensure program in either the Learning Behavior Specialist I (LBS I) or the Visual Impairments emphasis. Transfer students **must** (a) ~~must provide evidence of having met the current Illinois requirements for passing the TAP, the ACT with writing, or SAT,~~ (b) have a minimum transfer GPA of 2.50, and (c) ~~(e)~~ (b) have grades of C or better in A.A.T. professional special education courses. The LBS I ... endorsement.

Transfer students seeking entrance into the Special Populations or VRT emphases must meet all NIU transfer requirements.

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**Emphasis 1. Learning Behavior Specialist I with PEL**

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Candidates in the LBS I with PEL program emphasis must earn a C or better ... ..

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**Emphasis 2. Visual Impairments with PEL**

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**Emphasis 3. Vision Rehabilitation Therapy**

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This program prepares candidates to teach independent living skills to individuals with visual impairments. Program requirements allow candidates to obtain national licensure from the Association for the Education and Rehabilitation of the Blind and Visually Impaired as a rehabilitation teacher. This program does not qualify candidates for professional educator licensure in the State of Illinois.

Candidates in the Vision Rehabilitation Therapy major must maintain an NIU GPA of 2.50 and earn a grade of C or better in SESE and SEVI courses, or a grade of S in courses with S/U grading. Candidates who do not meet these requirements must retake the course(s). Transfer students must meet all NIU requirements for admission to the university.

**Requirements in Department (45-51)**

SESE 240 - Introduction to Special Education (3)

SEVI 410 - Anatomy, Pathology, and Functioning of the Eye (3)

SEVI 420 - Literary Braille (3)

SEVI 430 - Basic Orientation and Mobility for Teachers of Persons with Visual Impairments (3)

SEVI 440 - Communication Systems Used by Persons with Visual Impairments (3)

SEVI 441 - Instructional Systems for Use of Low Vision in Educational Settings (3)

SEVI 443 - Teaching Activities of Daily Living to Persons with Visual Impairments and Multiple Disabilities (3)

SEVI 445 - Home Management for Persons with Visual Impairments and Multiple Disabilities (3)

SEVI 447 - Collaboration ~~among~~ Among School Professionals Working with Students with Visual and Multiple Impairments (3)

SEVI 450 - Assistive Technology for Individuals with Visual Impairments (3)

SEVI 451 - Assistive Technology for Individuals with Visual Impairments: Advanced Topics (3)

SEVI 460 - Rehabilitation of Adults with Visual Impairments (3)

SEVI 481 - Practicum in Rehabilitation Teaching of Persons with Visual Impairments (3)

SEVI 489 - Internship in Rehabilitation of Persons with Visual Impairments (6-12)

**Other course requirements (33)**

Candidates are encouraged to pursue a minor in a related field to attain sufficient credit hours for NIU graduation.

**Total Hours for Vision Rehabilitation Therapy: (78-84)**

**Emphasis 4: Special Populations**

This emphasis prepares candidates to work with individuals with a range of disabilities in private organizations, community settings, agencies, and other settings outside of public schools. Candidates are prepared to work with individuals with disabilities across the lifespan. This program does not entitle candidates for professional educator licensure in the State of Illinois.

Candidates in the special populations major must maintain an NIU GPA of 2.50 or better and earn a C or

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better in all SESE courses, or a grade of S in courses with S/U grading. Candidates who do not meet these requirements must retake the course(s). Candidates must fulfill NIU requirements for general education, human diversity, and writing infused course work. Transfer students must meet all NIU requirements for admission to the university.

**Requirements in Department (54-60)**

SESE 230 - Exploring the Special Education Major (1)

SESE 240<sup>1</sup> - Introduction to Special Education (3)

SESE 260 - Observation of Individuals with Disabilities in Community and/or School Settings (1)

#SESE 320 - Disability in Film (3)

SESE 370 - Educational Interventions for Students with Diverse Abilities (3)

^SESE 415 - Instructional Methods for Elementary Education Students with Mild Disabilities: Reading, Language Arts (4)

SESE 416 - Instructional Methods for Elementary Education Students with Mild Disabilities: Math, Science (3)

SESE 417 - Positive Behavior Support and Classroom Management for Special Educators (3)

SESE 418 - Early Field Experience in Special Education: Elementary, Mild Disabilities (2)

^SESE 444 - Instructional Methods and Strategies for Middle and Secondary Students with Mild Disabilities (3)

SESE 446 - Methods for Supporting Social/Emotional Development of Students with Emotional/Behavior Disorders (3)

SESE 447 - Consultation, Collaboration, and Communication Skills for Special Educators (3)

SESE 448 - Planning For the Transition from School to Employment, Career, and Postsecondary Education for Students with Disabilities (3)

SESE 449 - Early Field Experience in Special Education: Middle/ Secondary (2)

SESE 459 - Professional Practice in Special Education (3)

SESE 460 - Instructional Methods for Individuals with Autism and Developmental Disabilities (3)

SESE 461 - Assistive Technology for Individuals With Autism And Multiple Disabilities (3)

SESE 463 - Early Field Experience in Special Education: Autism and Developmental Disabilities (2)

SESE 489 - Internship in Community Education (6 or 12)

**Requirements outside Department (31-34)**

#\*EPFE 201<sup>1</sup> - Education as an Agent for Change (3)

EPS 405<sup>1</sup> - Issues in Human Development in the Elementary ~~through~~ Through High School years (3)  
OR HDFS 285 - Introduction to Family Life Education (3)

OR PSYC 225 - Lifespan Development: Childhood ~~through~~ Through Adulthood (3)

ETR 434 - Assessing Students with Special Needs (3)

ETT 229 - Computers in Education (3) or pass the ETRA Skills Competency Examination (0)

ETT 402 - Teaching and Learning with Technology (3)

LTIC 420 - Methods and Materials for Teaching English Language Learners in the Content Areas (3) LTCY

300<sup>1</sup> - Foundations of Instruction in Reading, Writing, and the other Language Arts (4)

\*MATH 201<sup>1</sup> - Foundations of Elementary School Mathematics (3)



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\*POLS 100<sup>1</sup> - American Government and Politics (3)

OR \*POLS 150<sup>1</sup> - Democracy in America (3)

\*PSYC 102<sup>1</sup> - Introduction to Psychology (3)

REHB 327 - Introduction to Rehabilitation Services (3)

**Electives (6-9)**

REHB 426 - Introduction to Topics in Rehabilitation Services (3)

REHB 482 - Employment Services in Vocational Rehabilitation (3)

SESE 423 - Observation and Assessment in Early Childhood Special Education (3)

SESE 424 - Methods and Strategies for Promoting Development and Teaching Infants, Toddlers, and Young Children with Disabilities and Special Needs (3)

SESE 426 - Working with and Supporting Families of Young Children with Disabilities and Special Needs (3)

~~SEVI 205 - The Blindness Experience (3)~~

SEVI 443 - Teaching Activities of Daily Living to Persons with Visual and Multiple Disabilities (3)

SEVI 445 - Home Management for Persons with Visual Impairments and Multiple Disabilities (3)

~~SEVI 205 - The Blindness Experience (3)~~

SEVI 430 - Basic Orientation and Mobility for Teachers of Persons with Visual Impairments (3)

**Total Number of Hours for Emphasis 4, Special Populations (91-103)**

Transfer students and native NIU candidates must complete general education course requirements within the Knowledge Domains, as well as requirements for human diversity and writing infused course work.

**COLLEGE OF ENGINEERING AND ENGINEERING TECHNOLOGY**

**Department of Electrical Engineering (ELE)**

GEC Course Revisions Page 156-160, 2018-19 Undergraduate Catalog

BME 425. BIOMEDICAL SIGNAL PROCESSING (3). .... PRQ: ELE 315; and either ISYE 335 or STAT 350 **300**.

ELE 360. COMMUNICATIONS SYSTEMS (4). .... PRQ: ELE 315, ELE 330, and ISYE 335 or STAT 350 **300**.

ELE 456. INTRODUCTION TO PATTERN RECOGNITION (3). .... PRQ: CSCI 240 or CSCI 241; and ELE 250; and STAT 350 **300** or ISYE 335.

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**Major in Electrical Engineering (B.S.)**

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**Emphasis 1. Electrical and Computer Engineering**

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**Requirements outside Department (45-47)**

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ISYE 355 - Probability and Statistics for Engineers (3),  
OR STAT 350 300 - Introduction to Probability and Statistics (3)

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**Emphasis 2. Biomedical Engineering**

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**Track 1**

**Requirements outside Department (63-65)**

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ISYE 335 - Probability and Statistics for Engineers (3),  
OR STAT 350 300 - Introduction to Probability and Statistics (3)

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**Track 2**

**Requirements outside Department (62)**

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ISYE 335 - Probability and Statistics for Engineers (3),  
OR STAT 350 300 - Introduction to Probability and Statistics (3)

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**Total Hours for Emphasis 2, Biomedical Engineering: 108-113**

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**Department of Industrial and Systems Engineering (ISYE)**

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310. WORK MEASUREMENT AND WORK DESIGN (3). .... CRQ: ISYE 335 or STAT 350 300 or UBUS 223.

371. OPERATIONS RESEARCH: PROBABILISTIC MODELS (3). .... PRQ: ISYE 335 or STAT 350 300.

410. HUMAN FACTORS ENGINEERING (3). .... PRQ: PHYS 253 and ISYE 335 or STAT 350 300 or UBUS 223.

430. QUALITY CONTROL (3). .... PRQ: ISYE 335 or STAT 350 300 or UBUS 223.

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431. RELIABILITY ENGINEERING (3). .... PRQ: ISYE 335 or STAT ~~350~~ 300.

439. SIX SIGMA PERFORMANCE EXCELLENCE AND MODERN PROBLEM SOLVING (3). .... PRQ: ISYE 335 or STAT ~~350~~ 300 or UBUS 223.

440. PRODUCTION PLANNING AND CONTROL (3). .... PRQ: ISYE 335 or UBUS 223 or STAT ~~350~~ 300. CRQ: ISYE 370 or OMIS 327.

442. ENGINEERING PROJECT MANAGEMENT (3). .... PRQ: MATH 230 and either STAT ~~208~~ 100 or STAT ~~350~~ 300 or ISYE 335; or consent of department.

455. MANUFACTURING METROLOGY (3). .... PRQ: ISYE 335 or STAT ~~350~~ 300.

470. INTRODUCTION TO DATA ANALYTICS FOR ENGINEERS (3). .... PRQ: ISYE 335 or STAT ~~350~~ 300; and CSCI 240; or consent of the department.

475. DECISION ANALYSIS FOR ENGINEERING (3). .... PRQ: ISYE 335 or STAT ~~350~~ 300 or UBUS 223.

480. SIMULATION MODELING AND ANALYSIS (3). .... PRQ: ISYE 335 or STAT ~~350~~ 300 or UBUS 223; and CSCI 240 and ISYE 371; or consent of department.

490. SYSTEMS ENGINEERING MANAGEMENT (3)..... PRQ: MATH 230; and either ISYE 335 or STAT ~~208~~ 100 or STAT ~~350~~ 300; or consent of department.

**Department of Technology (TECH)**

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391. INDUSTRIAL QUALITY CONTROL (3). .... PRQ: MATH 155 with a C or better, STAT ~~208~~ 100 or STAT ~~304~~ 200, or consent of department.

404. SUPERVISION IN INDUSTRY (3). .... PRQ: STAT ~~208~~ 100.

407. MAINTENANCE MANAGEMENT TECHNOLOGY (3). .... PRQ: Either STAT ~~208~~ 100 or STAT ~~304~~ 200; and TECH 265; or consent of department.

415. APPLIED INDUSTRIAL EXPERIMENTAL ANALYSIS (3). .... PRQ: MATH 155 with a C or better and STAT ~~208~~ 100.

492. MANUFACTURING DISTRIBUTION APPLICATIONS (3). .... PRQ: MATH 155 with a C or

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better, TECH 265, and STAT 208 100 or STAT 304 200, or consent of the department.

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**Major in Technology (B.S.)**

**Emphasis 1. Electrical Engineering Technology**

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**Requirements outside Department (26-27)**

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\*STAT 208 100 - Basic Statistics (3),  
OR STAT 304 200 - Elementary Statistics (4)

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**Emphasis 2. Manufacturing Engineering Technology**

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\*STAT 208 100 - Basic Statistics (3),  
OR STAT 304 200 - Elementary Statistics (4)

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**Emphasis 3. Industrial Management and Technology**

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**Requirements outside Department (17-18)**

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\*STAT 208 100 - Basic Statistics (3),  
OR STAT 304 200 - Elementary Statistics (4)

**Total hours for Emphasis 3, Industrial Technology: 89-93**

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**Emphasis 4. Energy and Environmental Technology**

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**Requirements outside Department (27-28)**

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\*STAT 208 100 - Basic Statistics (3),  
OR STAT 304 200 - Elementary Statistics (4)

↓

**Emphasis 5. Applied Manufacturing Technology**

↓

**Requirements outside Department (14)**

↓

\*STAT 208 100 - Basic Statistics (3)

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**COLLEGE OF HEALTH AND HUMAN SCIENCES**

**School of Allied Health and Communicative Disorders (AHCD, AHPT, COMD)**

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COMD 429. ASSESSMENT PROCEDURES IN COMMUNICATIVE DISORDERS (3). .... PRQ: COMD 220 and STAT ~~208~~ **100** or STAT ~~304~~ **200**. CRQ: Junior status.

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**Major in Communicative Disorders (B.S.)**

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**Requirements outside School (24-27)**

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\*STAT ~~208~~ **100** - Basic Statistics (3),  
OR STAT ~~304~~ **200** - Elementary Statistics (4)

**School of Family and Consumer Sciences**

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FSMD 468. CONSUMER BEHAVIOR RELATED TO APPAREL (3). .... PRQ: FSMD 152 with a grade of C or better, ..., STAT ~~208~~ **100** or UBUS 223, and at least junior standing.

HDFS 343. FAMILY FINANCIAL PLANNING (3). .... PRQ: STAT ~~208~~ **100**.

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**Limited Retention Requirements for Human Development and Family Sciences**

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OR STAT ~~208~~ **100** - Basic Statistics (3),

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**Emphasis 1. Family and Individual Development**

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**Requirements outside School (24-26)**

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\*STAT ~~208~~ **100** - Basic Statistics (3),  
OR STAT ~~304~~ **200** - Elementary Statistics (4)

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**Emphasis 2. Family Social Services**

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- ↓  
**Requirements outside the School (15-17)**
- ↓  
\*STAT 208 100 - Basic Statistics (3),  
OR STAT 304 200 - Elementary Statistics (4)
- ↓  
**Emphasis 3. Child Development**
- ↓  
**Requirements outside School (15-16)**
- ↓  
\*STAT 208 100 - Basic Statistics (3)
- ↓  
**Major in Fashion Merchandising (B.S.)**
- ↓  
**Requirements outside School (34-35)**
- ↓  
\*STAT 208 100 - Basic Statistics (3),
- ↓  
**Total Hours for a Major in Fashion Merchandising: 73-78**
- ↓  
**Major in Hospitality and Tourism Management (B.S.)**
- ↓  
**Requirements outside School (29)**
- ↓  
STAT 304 200 - Elementary Statistics (4),  
OR \*STAT 208 100 - Basic Statistics (3),
- ↓

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**Illinois Early Childhood Education (ECE) Credential Certificate-Levels 2-5 (15-42)**

This certificate is designed to meet the standards for the Illinois ECE (Levels 2-5) of the Illinois Network of Child Care Resource and Referral Agencies (INCCRRA). The ECE Credential Levels 2-5 is recognized by the National Association for the Education of Young Children's (NAEYC) teachers' criteria for NAEYC Accreditation and by ExceleRate Illinois for quality recognition among early learning providers. Upon successful completion of the required credential course work, students will be eligible to apply for the ECE Levels 2-5 from INCCRRA.

Applicants for the ECE certificate levels 2-5 must major in Child Development and must meet INCCRRA ECE credential requirements for levels 2-5. To earn the certificate, students must maintain a good academic standing in the university, achieve a minimum grade of C in each certificate course, achieve a

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GPA of 2.50 in all certificate courses, and complete all certificate course work within five academic years.

**Core Course for Level 2 (15)**

HDFS 230 - Child Development

HDFS 231 – An Observational Approach to the Study and Assessment of Young Children

HDFS 284 - Introduction to Family Relations

HDFS 330 - Principles of Guiding Young Children

HDFS 384 - Asian American Families

Completion of 25 hours of approved community service in a child development agency

**Core Course for Level 3 (27)**

HDFS 230 - Child Development

HDFS 231 – An Observational Approach to the Study and Assessment of Young Children

HDFS 284 - Introduction to Family Relations

HDFS 330 - Principles of Guiding Young Children

HDFS 332 - Inclusive Program Planning for Children 3-8 ~~years~~ Years of Age and Their Parents

HDFS 384 - Asian American Families

~~HDFS 399 - Orientation in Child Development Laboratory~~

~~NUTR 405 – Child Health and Nutrition~~

HDFS 488 - Working with Ethnically Diverse Families and Children in the U.S.

~~HDFS 399 – Orientation in Child Development Laboratory~~

~~NUTR 405 - Child Health and Nutrition~~

Completion of 50 hours of approved community service in a child development agency

**Core Course for Level 4 (39)**

HDFS 230 - Child Development

HDFS 231 - An Observational Approach to the Study and Assessment of Young Children

HDFS 284 - Introduction to Family Relations

HDFS 330 - Principles of Guiding Young Children

HDFS 332 - Inclusive Program Planning for Children 3-8 Yyears of Age and Their Parents

HDFS 384 - Asian American Families

~~HDFS 399 - Orientation in Child Development Laboratory~~

~~NUTR 405 – Child Health and Nutrition~~

HDFS 488 - Working with Ethnically Diverse Families and Children in the U.S.

~~HDFS 399 – Orientation in Child Development Laboratory~~

HDFS 490 - Practicum in Infant and Child Development Laboratories

~~NUTR 405 - Child Health and Nutrition~~

Completion of 50 hours of approved community service in a child development agency

**Core Course for Level 5 (42)**

HDFS 230 - Child Development

HDFS 231 – An Observational Approach to the Study and Assessment of Young Children

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HDFS 284 - Introduction to Family Relations  
HDFS 330 - Principles of Guiding Young Children  
HDFS 332 - Inclusive Program Planning for Children 3-8 ~~years~~ Years of Age and Their Parents  
HDFS 384 - Asian American Families  
~~HDFS 399 - Orientation in Child Development Laboratory~~  
~~NUTR 405 - Child Health and Nutrition~~  
HDFS 432 - Theories of Child Development  
HDFS 488 - Working with Ethnically Diverse Families and Children in the U.S.  
~~HDFS 399 - Orientation in Child Development Laboratory~~  
HDFS 490 - Practicum in Infant and Child Development Laboratories  
~~NUTR 405 - Child Health and Nutrition~~  
Completion of 50 hours of approved community service in a child development agency

**School of Health Studies**

GEC Course Revisions Page 199-205, 2018-19 Undergraduate Catalog

PHHE 325. BIOSTATISTICAL APPLICATIONS IN PUBLIC HEALTH (3). .... PRQ: STAT ~~208~~ 100,  
STAT ~~304~~ 200, or UBUS 223 and declared public health major, declared public health minor, or consent  
of school.

GEC Other Catalog Change Page 199-205, 2018-19 Undergraduate Catalog

**Major in Medical Laboratory Sciences (B.S.)**

↓

**Requirements outside School (37-38)**

↓

\*STAT ~~208~~ 100 - Basic Statistics (3)

↓

**Major in Nutrition Dietetics, and Wellness (B.S.)**

↓

**Requirements outside School (47-49)**

↓

\*SOCI 170 - Introduction to Sociology (3),  
OR \*ANTH 120 - Anthropology and Human Diversity (3);  
\*STAT ~~208~~ 100 - Basic Statistics (3),  
OR STAT ~~304~~ 200 - Elementary Statistics (4)

↓

**Major in Public Health (B.S.)**

↓

**Requirements outside School (20-23)**

↓



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\*STAT ~~208~~ **100** - Basic Statistics (3)  
OR STAT ~~304~~ **200** - Elementary Statistics (4)

**School of Interdisciplinary Health Professions**

GEC Course Revisions Undergraduate Catalog

HSCI 460. RESEARCH IN HEALTH AND HUMAN SCIENCES (3). .... PRQ: STAT ~~208~~ **100** or STAT ~~304~~ **200** or UBUS 223; and CHHS major with at least junior standing; or consent of school.

GEC Other Catalog Change Page 207-209, 2018-19 Undergraduate Catalog

**Major in Health Sciences (B.S.)**

↓

**Requirements outside School (15-16)**

↓

\*STAT ~~208~~ **100** - Basic Statistics (3)  
OR STAT ~~304~~ **200** - Elementary Statistics (4)

↓

**Major in Rehabilitation and Disability Services (B.S.)**

↓

**Requirements outside School (18-19)**

↓

\*STAT ~~208~~ **100** - Basic Statistics (3),  
OR \*STAT ~~304~~ **200** - Elementary Statistics (4)

BOT Other Catalog Change Page 209, 2018-19 Undergraduate Catalog

**Curriculum**

↓

Upon receiving their undergraduate degree, students will work with an adviser to establish a timeline for completion of the M.S. in Rehabilitation Counseling.

**Minor in Addiction Studies**

Health Sciences and Rehabilitation and Disability Services majors are eligible to complete this minor

**Requirements (21)**

CAHC 493 - Crisis Intervention in the Helping Profession (3)

HSCI 410 - Legal and Ethical Issues for Health and Human Sciences Professionals (3)

PHHE 404 - Drugs in Society (3)

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PHHE 437 - Assessment, Treatment, and Prevention of Drug and Alcohol Addiction (3)  
PSYC 316 - Introduction to Psychopathology (3)  
#\*REHB 200 - Disability in Society (3)  
\*REHB 300 - Psychiatric Disability in Society (3)

Students interested in pursuing the Certified Alcohol and Drug Counselor (CADC) credential should consult with an ~~advisor~~ advisor.

Six or more semester hours in the minor must be taken at NIU.

**School of Nursing**

GEC Course Revisions Undergraduate Catalog

312. NURSING RESEARCH AND EVIDENCE-BASED PRACTICE (3). .... PRQ: STAT ~~208~~ 100 or STAT ~~304~~ 200; and NURS 303 and NURS 304 and NURS 305 and NURS 307 and NURS 308; or R.N. status.

GEC Other Catalog Change Page 216, 2018-19 Undergraduate Catalog

**Major in Nursing (B.S.)**

↓

**Requirements outside School (31-33)**

↓

\*STAT ~~208~~ 100 - Basic Statistics (3),  
OR STAT ~~304~~ 200 - Elementary Statistics (4)

**COLLEGE OF LIBERAL ARTS AND SCIENCES**

GEC Course Revisions Page 234, 2018-19 Undergraduate Catalog

~~LGBT~~ WGSS 350. LESBIAN, GAY, BISEXUAL, AND TRANSGENDER STUDIES (3). ....

~~WGSS~~ 101. INTRODUCTION TO WOMEN, SEX, AND GENDER, AND SEXUALITY STUDIES TODAY (3). Introduction to the study of women, gender, and sexuality in the contemporary U.S., with an emphasis on diversity, feminisms, LGBTQ+ communities, and social change.

~~WGSS~~ 201. GLOBAL GENDER ISSUES AND JUSTICE IN GLOBAL PERSPECTIVES (3). Introduction to ~~the study of women's rights and their struggles to~~ how gender, power and sexual orientation influence access to resources globally, as well as what it is like to be a woman gendered experiences and livelihood strategies in different societies around the world.

**SECTION B – Recorded, but further approval needed before inclusion in the Undergraduate Catalog**

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WGSS 202. WOMEN AND CULTURAL EXPRESSION (3). ....

WGSS 324. WOMEN IN SCIENCE (3). ....

Pres. Other Catalog Change Page 225, 2018-19 Undergraduate Catalog  
Freeman & GEC

**Minor in LGBTQ+ Studies**

**Coordinator: Kristen Myers, Director of the Center for the Study of Women, Gender and Sexuality**

The interdisciplinary minor in LGBTQ+ Studies is ... contributions of lesbian, gay, bisexual, and transgendered, and queer people. Complex ....

↓

Students may enroll in a ... in LGBTQ+ studies. Independent study ... coordinator of the LGBTQ+ Studies program, when substantial treatment of LGBTQ+ Studies is included in the course.

Students must complete 18 semester hours for this minor and are urged to complete WGSS 101, LGBTQ+ WGSS 350, and ~~LGBT 400~~ WGSS 432 as early as possible. ....

**Requirements (18)**

**All LGBTQ+ Studies minors must take (9):**

~~#^LGBT 350 - Lesbian, Gay, Bisexual and Transgender Studies (3)~~

~~#^LGBT 400 - Queer Theory (3)~~

#WGSS 101 - Introduction to Women, Sex, Gender, and Gender Today Sexuality Studies (3)

#^WGSS 350 - Lesbian, Gay, Bisexual, and Transgender Studies (3)

#WGSS 432 - Feminist and Queer Theories (3)

Three of the following (9)

↓

^ARTH 451<sup>1</sup> - Topics in Art History: Ancient and Middle-Eastern Art (3)

CAHE 100 - Foundation of Social Change Leadership (3)

CAHE 200 - Application of Social Change Leadership (3)

COMS 230<sup>2</sup> - Rhetoric and the Media (3)

↓

#HIST 402 - Gender and Sexuality in History (3)

~~LGBT 351 - Research in Lesbian, Gay, Bisexual, Transgender Studies (3)~~

~~LGBT 390<sup>+</sup> - Internship (3)~~

~~#LGBT 450 - Transgender Studies (3)~~

~~LGBT 460 - Special Topics in Lesbian, Gay, Bisexual, and Transgender Studies (3)~~

~~^PHHE 406 - Dimensions of Human Sexuality (3)~~

PHIL 103<sup>2</sup> - Contemporary Issues in Ethics (3)

↓

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^SOCI 495<sup>1</sup> - Proseminar in Sociology (3)  
WGSS 300 - Research Methods in Women, Gender, and Sexuality Studies (3)  
#WGSS 332<sup>2</sup> - Growing Up Girl (3)  
WGSS 390 - Internship in Women, Gender, and Sexuality Studies (1-3)  
WGSS 430<sup>1</sup> - Special Topics in Women's, Gender, and Sexuality Studies (3)  
WGSS 436<sup>1</sup> - Current Debates Seminar: Women, and Gender, and Sexuality Studies (3)  
#WGSS 450 - Transgender Studies (3)

Pres. Other Catalog Change  
Freeman & GEC

Page 227-228, 2018-19 Undergraduate Catalog

**Minor in Women's and Gender Studies**

**Coordinator: Kristen Myers, director, Center for the Study of Women, Gender and Sexuality**

↓

Students may enroll in a ... organizations' activities. Students must complete 18 semester hours for this minor and are urged to complete \*WGSS 101, \*WGSS 202, and WGSS 432 as early as possible. No more than 9 semester semester hours from the list of requirements can be applied toward both the LGBTQ+ minor and the WGST minor.

↓

**Requirements (18)**

All minors in Women's and Gender Studies must take (9):

#\*WGSS 101 - Introduction to Women, Sex and Gender, and Sexuality Studies Today (3)

\* WGSS 201 - Gender and Justice in Global Gender Issues Perspectives (3)

OR #\*WGST 202 - Women and Cultural Expression (3)

WGSS 432 - Feminist and Queer Theories (3)

Three of the following (9)

ANTH 361 - Cross-Cultural Perspectives on Women (3)

↓

BKST 402 - The Africana Woman (3)

CAHE 100 - Foundation of Social Change Leadership (3)

CAHE 200 - Application of Social Change Leadership (3)

#\*COMS 410 - Communication and Gender (3)

↓

^HIST 407 - Medieval Women (3)

~~^LGBT 350 - Lesbian, Gay, Bisexual, and Transgender Studies (3)~~

~~LGBT 450 - Transgender Studies (3)~~

~~LGBT 460 - Special Topics in LGBT Studies (3)~~

MGMT 498 - Equal Opportunity and Employment (3)

NUTR 406 - Global Food and Nutrition Issues (3)

~~^PHHE 406 - Dimensions of Human Sexuality (3)~~

#PHIL 355 - Feminism and Philosophy (3)

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- ↓  
^SOCI 487 - Gender and Crime (3)  
WGSS 202 - Women and Cultural Expression (3)  
WGSS 240 - Issues in Women's and Gender, and Sexuality Studies (3)  
WGSS 300 - Research Methods in Women, Gender, and Sexuality Studies (3)  
#WGSS 324/#BIOS 324X/#GEOG 324X - Women in Science (3)  
#WGSS 332 - Growing Up Girl (3)  
^WGSS 350 - Lesbian, Gay, Bisexual, and Transgender Studies (3)  
WGSS 390 - Internship in Women's and Gender, and Sexuality Studies (1-3)  
WGSS 424 - Topics in Gender and STEM (3)  
WGSS 430 - Special Topics in Women's and Gender Studies (3)  
WGSS 432 - Feminist and Queer Theories (3)  
#WGSS 434 - Language and Gender (3)  
#WGSS 435 - Gender and the Environment (3)  
WGSS 436 - Current Debates Seminar: Women, and Gender, and Sexuality Studies (3)  
WGSS 439 - Independent Study in Women's and Gender, and Sexuality Studies (3)  
#WGSS 450 - Transgender Studies (3)

Six or more semester hours in the minor must be taken at NIU.

Pres. Other Catalog Change  
Freeman & GEC

Page 229, 2018-19 Undergraduate Catalog

**Lesbian, Gay, Bisexual, and Transgender, and Queer+ Studies (12)**  
**Coordinator: Kristen Myers (Center for the Study of Women, Gender, and Sexuality)**

↓  
↓

All requirements for the certificate must be completed within a period of six consecutive years. ~~In addition to the approved ... of lesbian, gay, bisexual, and transgender studies.~~

**Requirements (12)**

#~~LGBT~~ WGSS 350 - Lesbian, Gay, Bisexual, and Transgender Studies (3)

Three of the following (9)

^ANTH 422 - Gender in Southeast Asian (3)

ANTH 468 - Anthropology of Gender (3)

CAHE 100 - Foundation of Social Change Leadership (3)

CAHE 200 - Application of Social Change Leadership (3)

#COMS 410 - Communication and Gender (3)

↓

#HIST 402 - Gender and Sexuality in History (3)

~~LGBT 351 - Research in Lesbian, Gay, Bisexual, Transgender Studies (3)~~

~~LGBT 390<sup>+</sup> - Internship (3)~~

~~APHHE 406 - Dimensions of Human Sexuality (3)~~

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PSYC 474 - Psychological Basis of Sexuality (3)  
SOCI 357 - Sociology of Gender (3)  
~~#WGSTS 101 - Introduction to Women, Sex, and Gender, and Sexuality Studies Today (3)~~  
~~#WGSTS 202 - Women and Cultural Expression (3)~~  
~~WGSS 300 - Research Methods in Women, Gender, and Sexuality Studies (4)~~  
~~WGSS 390 - Internship in Women, Gender, and Sexuality Studies (1-3)~~  
WGSS~~F~~ 430<sup>+</sup> - Special Topics in Women, ~~s~~ and Gender, and Sexuality Studies (3)  
~~#WGSSTF 432 - Feminist and Queer Theories (3)~~

GEC Other Catalog Change Page 230, 2018-19 Undergraduate Catalog

Note: Only the underlined items need GEC approval.

**Women's and Gender Studies**

**Coordinator: Kristen Myers (Center for the Study of Women, Gender and Sexuality)**

↓

To pursue the certificate, students must be admitted to the university but need not be enrolled in a degree program. ~~Students must consult with the coordinator of Women's and Gender Studies program for approval of the course of study.~~

All requirements for the certificate must be completed within a period of six consecutive years. ~~In addition to the approved elective courses ... the Study of Women, Gender, and Sexuality.~~

**Requirements (12)**

Two of the following courses (6)

~~#WGSSTF 101 - Introduction to Women, Sex, and Gender, and Sexuality Studies Today (3)~~  
~~WGSS~~F~~ 201 - Global Gender Issues and Justice in Global Perspectives (3)~~  
~~#WGST 202 - Women and Cultural Expression (3)~~

Two of the following courses in any field, focused on women and/or gender (6)

ANTH 361 - Cross-Cultural Perspectives on Women (3)

↓

ANTH 468 - Anthropology of Gender (3)

CAHE 100 - Foundation of Social Change Leadership (3)

CAHE 200 - Application of Social Change Leadership (3)

\*COMS 410 - Communication and Gender (3)

↓

^ENGL 383 - Gay and Lesbian Literature (3)

#ENGL 434X/#WGSST~~F~~ 434 - Language and Gender (3)

^FLFR 445 - Feminism in France (3)

↓

#^HIST 407 - Medieval Women (3)

~~^PHHE 406 - Dimensions of Human Sexuality (3)~~

**SECTION B – Recorded, but further approval needed before inclusion in the Undergraduate Catalog**

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- #PHIL 355 - Feminism and Philosophy (3)
- ↓
- ^SOCI 487 - Gender and Crime (3)
- #WGSS 202 - Women and Cultural Expression (3)**
- WGSS~~F~~ 240 - Issues in Women,~~s~~ and Gender, and Sexuality Studies (3)
- WGSS 300 - Research Methods in Women, Gender, and Sexuality Studies (4)**
- #WGSST~~F~~ 324/#BIOS 324X/#GEOG 324X - Women in Science (3)**
- #WGSST~~F~~ 332 - Growing Up Girl (3)
- WGSS~~F~~ 390 - Internship in Women,~~s~~ and Gender, and Sexuality Studies (1-3)
- WGSS~~F~~ 424 - Topics in Gender and STEM (3)
- WGSS~~F~~ 430 - Special Topics in Women,~~s~~ and Gender, and Sexuality Studies (3)
- WGSS~~F~~ 432 - Feminist and Queer Theories (3)
- #WGSST~~F~~ 435/**ENVS 435X** - Gender and the Environment (3)
- WGSS~~F~~ 436 - Current Debates Seminar: Women, and Gender, and Sexuality Studies (3)
- WGSS~~F~~ 439 - Independent Study in Women,~~s~~ and Gender, and Sexuality Studies (3)

GEC Other Catalog Change Page 232, 2018-19 Undergraduate Catalog

**Pre-professional Studies**

↓

**Course Selection for Biomedical Pre-professional Students**

↓

Additional recommended classes include Statistics (STAT ~~304~~ **200**), ....

↓

**Pre-dentistry**

Most dental schools require PSYC 102, PSYC 225, STAT ~~304~~ **200**, ....

↓

**Pre-optometry**

Many optometry schools require Elementary Statistics - STAT ~~304~~ **200** and Lifespan Development - PSYC 225.

↓

**School of Public and Global Affairs**

GEC Other Catalog Change Page 236, 2018-19 Undergraduate Catalog

**B.S.A.M. Core Requirements (21)**

↓

OR \*STAT ~~208~~ **100** - Basic Statistics (3)

↓

**Department of Biological Sciences (BIOS)**

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GEC Course Revision Page 245, 2018-19 Undergraduate Catalog

BIOS 324X. WOMEN IN SCIENCE (3). *Crosslisted as WGSTS 324 and GEOG 324X. ....*

GEC Other Catalog Change Page 243, 2018-19 Undergraduate Catalog

**Major in Biological Sciences (B.S.)**

↓

**Requirements outside Department (33).**

\*CHEM 210 - General Chemistry I (3), and

\*CHEM 212 - General Chemistry Laboratories I (1)

↓

and **AND** STAT ~~304~~ **200** - Elementary Statistics (4)

↓

**Admission and Retention Requirements in the Discipline**

Students interested .... sequence MATH 211 and STAT ~~304~~ **200**, BIOS 305, ....

**Department of Chemistry and Biochemistry (CHEM)**

GEC Other Catalog Change Page 250, 2018-19 Undergraduate Catalog

**Major in Chemistry (B.S.)**

↓

**Emphasis 1. Chemistry**

↓

**Recommendations**

↓

STAT ~~304~~ **200** - Elementary Statistics (4),

OR STAT 350 **300** - Introduction to Probability and Statistics (3)

↓

**Emphasis 2. Biochemistry**

↓

**Recommendations**

↓

STAT ~~304~~ **200** - Elementary Statistics (4),

OR STAT 350 **300** - Introduction to Probability and Statistics (3)

↓

**Department of Communication**

Pres. Course Revision: Page 261, 2018-19 Undergraduate Catalog



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Freeman

COMS 446. DESIGNING FOR THE INTERNET (3). . . . . Not open to B.F.A. **art studio art and design** majors. . . . .

Pres. Other Catalog Change Page 256-257, 2018-19 Undergraduate Catalog  
Freeman

**Major in Communication Studies (B.A. or B.S.)**

Three emphases are available to students majoring in communication studies. The emphasis in **advocacy** and public communication . . . . .

↓

**Emphasis 1. Rhetoric **Advocacy** and Public Communication**

↓

**Total Hours for Emphasis 1, Rhetoric **Advocacy** and Public Communication: 33-46 (B.A.) OR 45-50 (B.S.)**

**Department of Computer Science (CSCI)**

GEC Other Catalog Change Page 265, 2018-19 Undergraduate Catalog

**Major in Computer Science (B.S.)**

↓

**Emphasis 1. Software Development**

↓

**Requirements outside Department (10-15)**

↓

STAT ~~304~~ **200** - Elementary Statistics (4),  
OR STAT ~~350~~ **300** - Introduction to Probability and Statistics (3)

↓

**Emphasis 2. Enterprise Software**

↓

**Requirements outside Department (19-27)**

↓

STAT ~~304~~ **200** - Elementary Statistics (4),  
OR STAT ~~350~~ **300** - Introduction to Probability and Statistics (3)

↓

**Emphasis 3. Computational Software**

↓

**Requirements outside Department (32-33)**

↓

STAT ~~350~~ **300** - Introduction to Probability and Statistics (3)

↓

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**Department of Economics (ECON)**

GEC Course Revision Undergraduate Catalog

390. BASIC ECONOMETRICS AND ECONOMIC APPLICATIONS (3). .... PRQ: STAT ~~304~~ 200 or STAT ~~350~~ 300 or UBUS 223. CRQ: ECON 390A.

GEC Other Catalog Change Page 269-271, 2018-19 Undergraduate Catalog

**Major in Economics (B.A. or B.S.)**

↓

**Requirements outside Department (B.A., 3-16; B.S., 11-15)**

↓

\*STAT ~~208~~ 100 - Basic Statistics (3),  
OR STAT ~~304~~ 200 - Elementary Statistics (4),

↓

STAT ~~304~~ 200 - Elementary Statistics (4)

OR

\*MATH 229, and MATH 230 - Calculus I and II (8)  
STAT ~~350~~ 300 - Introduction to Probability and Statistics (3)

↓

**Emphasis 1. Financial Economics (B.S. only) (50)**

↓

**Requirements outside the Department (15)**

↓

STAT ~~350~~ 300 - Introduction to Probability and Statistics (3)

↓

**Accelerated B.S./ M.A. Program in Economics**

**Admission**

This program leads to ... STAT ~~350~~ 300). Ideally students will ... ..

Students who are ... STAT ~~350~~ 300 should . .... Students who have completed the courses MATH 229, MATH 230, STAT ~~350~~ 300, and ECON 390 with a grade of B or better ... ..

↓

**Curriculum**

Students must complete ..., STAT ~~350~~ 300, ECON 360, ....

↓

**Environmental Studies**

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GEC Other Catalog Change Page 282, 2018-19 Undergraduate Catalog

**Major in Environmental Studies (B.A. or B.S.)**

↓

**Requirements outside Environmental Studies (B.A., 10-22; B.S., 15-16)**

*For the B.A. degree*

Fulfillment of foreign language requirement (0-12)

↓

STAT 208 100 - Basic Statistics (3)

*For the B.S. degree*

↓

STAT 301 200 - Elementary Statistics (4)

**Department of Geographic and Atmospheric Sciences**

GEC Course Revision Page 292, 2018-19 Undergraduate Catalog

GEOG 324X. WOMEN IN SCIENCE (3). *Crosslisted as WGSTS 324 and BIOS 324X. ....*

Pres. Other Catalog Change Page 289, 2018-19 Undergraduate Catalog  
Freeman

**Department of Geographic and Atmospheric Sciences (GEOG, MET)**

↓

The Department of Geographic and Atmospheric Sciences .... The major in geography has emphases in geography and **land surveying** - geomatics. An advanced studies certificate is also available in GIS.

↓

**Major in Geography**

The emphasis in geography offers the opportunity ... .... The emphasis in **land surveying** - geomatics integrates land surveying and mapping science.

Students pursuing the emphasis in geography may earn the B.A. or the B.S. degree; those pursuing the emphasis in **land surveying** - geomatics must fulfill requirements for the B.S. degree.

↓

**Emphasis 2: Land Surveying - Geomatics (B.S.)**

↓

**Requirements outside Department (16)**

↓

\*PHYS 210 - General Physics I (4)

AND \*PHYS 211 - General Physics II (4)

OR PHYS 253 - Fundamentals of Physics I: Mechanics (4)

AND PHYS 273 - Fundamentals of Physics II: Electromagnetism (4)

STAT 301 - Elementary Statistics (4)

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**Recommendations**

↓

**Total Hours for Emphasis 2, Land Surveying - Geomatics: 57 (B.S.)**

GEC Course Revisions Page 290-295, 2018-19 Undergraduate Catalog

GEOG 361. GEOGRAPHIC MEASUREMENT AND QUANTITATIVE ANALYSIS (3). .... PRQ: STAT ~~301~~ 200.

GEOG 370. REGIONAL CLIMATOLOGY (3). .... CRQ: STAT ~~301~~ 200.

GEOG 461. APPLIED STATISTICS IN GEOGRAPHIC RESEARCH (3.... PRQ: STAT ~~301~~ 200.

GEOG 490. COMMUNITY GEOGRAPHY (3). .... PRQ: GEOG 359, STAT ~~301~~ 200, and ....

GEC Other Catalog Change Page 290-295, 2018-19 Undergraduate Catalog

**Major in Geography**

↓

**Emphasis 1: Geography (B.A. or B.S.)**

↓

**Requirements outside Department (B.A., 7-20; B.S., 10-15)**

STAT ~~301~~ 200 - Elementary Statistics (4)

*For the B.A. degree*

↓

**Emphasis 2: Geomatics (B.S.)**

↓

**Requirements outside Department (16)**

STAT ~~301~~ 200 - Elementary Statistics (4)

↓

**Major in Meteorology (B.S.)**

↓

**Requirements outside Department (30-31)**

↓

STAT ~~301~~ 200 - Elementary Statistics (4)

↓

**Department of Geology and Environmental Geosciences**

GEC Other Catalog Change Page 297-298, 2018-19 Undergraduate Catalog

**SECTION B – Recorded, but further approval needed before inclusion in the Undergraduate Catalog**

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**Major in Geology and Environmental Geosciences (B.S.)**

↓

**Emphasis 2. Environmental Geosciences**

↓

**Requirements outside Department (33-36)**

↓

~~and~~ **AND STAT 301 200** - Elementary Statistics (4)

↓

**Emphasis 3. Earth and Space Science Education<sup>1,2</sup>**

↓

**Requirements outside Department (47-53)**

↓

**AND STAT 301 200** - Elementary Statistics (4)

↓

**Department of Mathematical Sciences**

**All University Sections**

**Limited Admission and Limited Retention**

GEC Other Catalog Change Page 26, 2018-19 Undergraduate Catalog

**Medical Laboratory Sciences Major  
(School of Health Studies)**

↓

\***STAT 208 100**, Basic Statistics (3)

↓

**Nursing**

↓

**Prerequisite Courses Used in Evaluating Applicants**

↓

\***STAT 208 100**, Basic Statistics (3),  
OR **STAT 301 200**, Elementary Statistics (4)

↓

**University Graduation Requirements**

GEC Other Catalog Change Page 31-60, 2018-19 Undergraduate Catalog

**Writing-Infused Course List**

↓

**SECTION B – Recorded, but further approval needed before inclusion in the Undergraduate Catalog**

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COMD 429. ASSESSMENT PROCEDURES IN COMMUNICATIVE DISORDERS (3). .... PRQ: COMD 220 and STAT ~~208~~ 100 or STAT ~~304~~ 200. CRQ: Junior status.

↓

GEOG 361. GEOGRAPHIC MEASUREMENT AND QUANTITATIVE ANALYSIS (3). .... PRQ: STAT ~~304~~ 200.

↓

HSCI 460. RESEARCH IN HEALTH AND HUMAN SCIENCES (3). .... PRQ: STAT ~~208~~ 100 or STAT ~~304~~ 200 or UBUS 223; and CHHS major with at least junior standing; or consent of school.

↓

NURS 312. NURSING RESEARCH AND EVIDENCE-BASED PRACTICE (3). Principles, methodology, and appraisal ... .... PRQ: STAT ~~208~~ 100 or STAT ~~304~~ 200; and NURS 303 and NURS 304 and NURS 305 and NURS 307 and NURS 308; or R.N. status.

↓

**General Education Requirements**

↓

**Foundational Quantitative Literacy Requirement (0-3 semester hours):**

↓

- obtaining a grade of C or better in STAT ~~208~~ 100, STAT ~~350~~ 300, or ISYE 335; and obtaining

↓

**Foundational Studies Course Descriptions**

↓

STAT ~~208~~ 100. BASIC STATISTICS (3). Designed to provide ... .... Not used in major or minor GPA calculation for mathematical sciences, **statistics, or actuarial science** majors or minors.

STAT ~~350~~ 300. INTRODUCTION TO PROBABILITY AND STATISTICS (3). Introduction to the basic ideas and ... .... PRQ: MATH 230.

↓

**Nature and Technology**

↓

STAT ~~304~~ 200. ELEMENTARY STATISTICS (4). Introduction ... Not available for credit toward the major in mathematical sciences, **statistics, or actuarial science**. Not used in major GPA calculation for mathematical sciences, **statistics, or actuarial science** majors. PRQ: MATH 206 or MATH 210 or MATH 211 or MATH 229.

↓

**General Education Course Titles**

**Foundational Studies**

↓

STAT ~~208~~ 100 - Basic Statistics (3)

STAT ~~350~~ 300 - Introduction to Probability and Statistics (3)

↓

**Knowledge Domain Course Titles**

**SECTION B – Recorded, but further approval needed before inclusion in the Undergraduate Catalog**

↓  
**Nature and Technology**  
↓  
STAT 304 200 - Elementary Statistics (4)  
↓

GEC Other Catalog Change Page 39-63, 2018-19 Undergraduate Catalog

**Writing-Infused Course List**

↓  
\*LESM 365. COMMUNICATION STRATEGIES IN SPORT AND EXERCISE (3). Application ... ..  
~~##\*LGBT 350. LESBIAN, GAY, BISEXUAL, AND TRANSGENDER STUDIES (3). Survey of ... class.~~  
LTLA 341. LANGUAGE ARTS IN THE ELEMENTARY SCHOOL (3). Development ... ..  
↓  
THEA 482. PLAYWRITING STUDIO (3). Advanced work ... ..

**WGSS 350. LESBIAN, GAY, BISEXUAL, AND TRANSGENDER STUDIES (3). Survey of issues and theories in lesbian, gay, bisexual, and transgender studies. Interdisciplinary study of sexual orientation and gender identity, with attention to race, ethnicity, and class.**

**Human Diversity Requirement Course List**

↓  
\*BIOS 324X. WOMEN IN SCIENCE (3). *Crosslisted as GEOG 324X and WGSSTF 324.* Why women are ... ..  
↓  
\*GEOG 324X. WOMEN IN SCIENCE (3). *Crosslisted as BIOS 324X and WGSSTF 324.*  
↓  
KNPE 474. MEDICAL ISSUES IN ATHLETIC TRAINING (3). Nonorthopedic ... ..

~~^\*LGBT 350. LESBIAN, GAY, BISEXUAL, AND TRANSGENDER STUDIES (3). Survey of issues and theories in lesbian, gay, bisexual, and transgender studies. Interdisciplinary study of sexual orientation and gender identity, with attention to race, ethnicity, and class.~~

↓  
\*WGSSTF 101. **INTRODUCTION TO WOMEN, SEX, AND GENDER, AND SEXUALITY STUDIES TODAY** (3). Introduction to the study of women, gender, and sexuality in the contemporary U.S., with an emphasis on diversity, feminisms, **LGBTQ+ communities**, and social change.

WGSSSTF 201. **GLOBAL GENDER ISSUES AND JUSTICE IN GLOBAL PERSPECTIVES** (3). Introduction to the study of women's rights and their struggles to **how gender, power and sexual**

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orientation influence access to resources globally, as well as what it is like to be a woman gendered experiences and livelihood strategies in different societies around the world.

\*WGSSTF 202. WOMEN AND CULTURAL EXPRESSION (3). ....

\* WGSSTF 324. WOMEN IN SCIENCE (3). ....

↓

**Knowledge Domain Course Descriptions**

↓

**Creativity and Critical Analysis**

↓

\*WGSSTF 202. WOMEN AND CULTURAL EXPRESSION (3). ....

↓

**Society and Culture**

↓

#BIOS 324X. WOMEN IN SCIENCE (3). *Crosslisted as WGSSTF 324 and ....*

↓

#GEOG 324X. WOMEN IN SCIENCE (3). *Crosslisted as WGSSTF 324 and ....*

↓

^LESM 365. COMMUNICATION STRATEGIES IN SPORT (3). Application ... ..

#^LGBT 350. ~~LESBIAN, GAY, BISEXUAL, AND TRANSGENDER STUDIES~~ (3). Survey of ...class.

MGMT 417. LEADING AND MANAGING CHANGE (3). Develops ... ..

↓

\*WGSSTF 101. **INTRODUCTION TO WOMEN, SEX, AND GENDER, AND SEXUALITY STUDIES TODAY** (3). Introduction to the study of women, gender, and sexuality in the contemporary U.S., with an emphasis on diversity, feminisms, **LGBTQ+ communities**, and social change.

WGSSTF 201. **GLOBAL GENDER ISSUES AND JUSTICE IN GLOBAL PERSPECTIVES** (3).

Introduction to the study of women's rights and their struggles to how gender, power and sexual orientation influence access to resources globally, as well as what it is like to be a woman gendered experiences and livelihood strategies in different societies around the world.

\*WGSSTF 324. WOMEN IN SCIENCE (3). ....

**WGSS 350. LESBIAN, GAY, BISEXUAL, AND TRANSGENDER STUDIES** (3). Survey of issues and theories in lesbian, gay, bisexual, and transgender studies. Interdisciplinary study of sexual orientation and gender identity, with attention to race, ethnicity, and class.

**General Education Course Titles**

↓



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**Knowledge Domain Course Titles**

↓

**Creativity and Critical Analysis**

↓

WGSS# 202 - Women and Cultural Expression (3)

**Nature and Technology**

↓

**Society and Culture**

↓

LESM 365 - Communication Strategies in Sport (3)

~~LGBT 350 - Lesbian, Gay, Bisexual, and Transgender Studies (3)~~

MGMT 417 - Leading and Managing Change (3)

↓

WGSS# 101 - Introduction to Women, Sex and Gender, and Sexuality Studies Today (3)

WGSS# 201 - Global Gender Issues and Justice in Global Perspectives (3)

WGSS 350 - Lesbian, Gay, Bisexual, and Transgender Studies (3)

**Pathways**

↓

**Origins and Influences**

↓

**Select one of the following Creativity and Critical Analysis courses:**

↓

#WGSS# 202 - Women and Cultural Expression (3)

↓

**Social Justice and Diversity**

↓

**Select one of the following Society and Culture courses:**

↓

#HIST 365 - African-American History since 1865 (3)

~~#LGBT 350 - Lesbian, Gay, Bisexual, and Transgender Studies (3)~~

NNGO 100 - Community Leadership and Civic Engagement (3)

SOCI 270 - Social Problems (3)

#WGSST 101 - Introduction to Women, Sex, and Gender, and Sexuality Studies Today (3)

#WGSST 324/#BIOS 324X/#GEOG 324X - Women in Science (3)

WGSS 350 - Lesbian, Gay, Bisexual, and Transgender Studies (3)

**Inter-College Interdisciplinary Certificates and Programs**

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**Homeland Security**

↓

**Environmental and Hazards Risk Assessment Track (12)**

**Coordinators: David Changnon, Department of Geographic and Atmospheric Sciences; Alan Polansky, Department of Mathematical Sciences**

STAT 350 **300** - Introduction to Probability and Statistics (3)  
Three of the following (9)

↓

STAT 470 **400** - ~~Introduction to Probability Theory~~ (3)

**OR ACSC 400X - Probability (3)**

~~STAT 481 - Probabilistic Foundations in Actuarial Science (3)~~

Elective course chosen with approval of certificate coordinator (3-6)

**Department Section**

GEC Course Revisions 2018-19 Undergraduate Catalog

STAT 208 **100**. BASIC STATISTICS (3). .... Not used in major or minor GPA calculation for mathematical sciences, **statistics, or actuarial science** majors or minors.

STAT 304 **200**. ELEMENTARY STATISTICS (4). Introduction .... Not available for credit toward the major in mathematical sciences, **statistics, or actuarial science**. Not used in major GPA calculation for mathematical sciences, **statistics, or actuarial science** majors. PRQ: MATH 206 or MATH 210 or MATH 211 or MATH 229.

STAT 350 **300**. INTRODUCTION TO PROBABILITY AND STATISTICS (3). ....

STAT 493 **490**. SPECIAL TOPICS IN STATISTICS (1-3). .... PRQ: Consent of ~~division~~ **department**.

Pres. Other Catalog Change Page 311, 2018-19 Undergraduate Catalog  
Freeman/BOT

**Department of Mathematical Sciences (MATH, ~~STAT~~)**

The Department of Mathematical Sciences offers the B.S. degree ..., computational mathematics, ~~probability and statistics,~~ **and** mathematics education, ~~and actuarial science~~. Students who successfully complete the program ... ..

The department also offers minors in mathematical sciences, **and** elementary mathematics education, ~~applied probability and statistics, and actuarial science~~. These minors ... ..

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~~Students interested in the ... Division of Statistics.~~

↓

Pres. Other Catalog Change Page 312, 2018-19 Undergraduate Catalog  
Freeman/BOT

**Major in Mathematical Sciences (B.S.)**

↓

**Emphasis 4. Probability and Statistics**

**Requirements in Department (40-43)**

MATH 229—Calculus I (4)

↓

STAT 472—Introduction to Mathematical Statistics (3)

Two of the following (6-8)

↓

At least 3 additional semester hours from among the following courses (3-4)

MATH 420—Abstract Algebra I (3)

↓

**Requirement outside Department (4)**

CSCI 230—Computer Programming in FORTRAN (4),

OR CSCI 240—Computer Programming in C++ (4)

**Total Hours for Emphasis 4, Probability and Statistics: 44-47**

~~Internship opportunities ... government agencies.~~

Pres. Other Catalog Change Page 312, 2018-19 Undergraduate Catalog  
Freeman/BOT

**Major in Mathematical Sciences (B.S.)**

↓

**Emphasis 5 4. Mathematics Education**

↓

**Total Hours for Emphasis 4 5, Mathematics Education: 46-47**

Pres. Other Catalog Change Page 314, 2018-19 Undergraduate Catalog  
Freeman/BOT

**Major in Mathematical Sciences (B.S.)**

↓

**Emphasis 6. Actuarial Science**

~~This interdisciplinary track ... this emphasis.~~

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Note: A student seeking to ... better in each course.

**Requirements in Department (49-52)**

\*MATH 229—Calculus I (4)

↓

STAT 481—Probabilistic Foundations in Actuarial Science (3)

Three from the following (7-10)

↓

**Requirements outside Department (25)**

↓

FINA 340—Investments (3)

**Total Hours for Emphasis 6, Actuarial Science: 74-77**

**Special Requirement**

At least 65 semester hours ... Division of Statistics.

**Recommendations for Actuarial Students**

The following additional courses cover some of the important topics in, and will help students who plan to take, Exam C / 4 of the SOA / CAS.

↓

The skills from the following additional courses will help students after they enter the actuarial profession.

↓

Students should see their advisors in the Division of Statistics before scheduling these additional courses in their individual programs of study.

Pres. Other Catalog Change  
Freeman/BOT

Page 314, 2018-19 Undergraduate Catalog

**Degree with Honors**

The Department of Mathematical Sciences offers the exceptional student an opportunity to earn a degree with honors in any of the ~~six~~ **four** emphases. Any mathematical ... ..

A student with these qualifications who wishes to become an honors degree candidate should go to the office of the Department of Mathematical Sciences (~~or, in the case of students in the emphasis in probability and statistics or in the emphasis in actuarial science, to the office of the Division of Statistics~~) to fill out a candidacy form ... ..

↓

**Requirements**

Maintain a 3.00 or higher overall GPA.

Maintain a 3.50 or higher GPA for ~~mathematical sciences~~ **MATH/STAT** courses numbered 300 and above.

Take at least four ~~mathematical sciences~~ **MATH** honors courses numbered 300 or higher, .... The honors

BACCALAUREATE COUNCIL  
Fourth Meeting/2018-19 Academic Year  
December 6, 2018

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sequences from which a sequence appropriate for the student's emphasis may be chosen are MATH 420H-  
MATH 421H, MATH 420H-MATH 423H, MATH 430H-MATH 431H, MATH 434H-MATH 435H;  
~~STAT 470H STAT 472H, STAT 470H STAT 481H, STAT 481H STAT 483H.~~

↓

Pres. Other Catalog Change Page 315 2018-19 Undergraduate Catalog  
Freeman/BOT

**~~Minor in Applied Probability and~~**

**~~Statistics (21-23)~~**

↓

~~STAT 483—Stochastic Processes I(4)~~

~~Six or more semester hours in the minor must be taken at NIU.~~

**~~Minor in Actuarial Science (29)~~**

~~This minor is ... Actuarial Society.~~

↓

~~Ten or more semester hours in ... will be waived.~~

Pres. Other Catalog Change Page 315, 2018-19 Undergraduate Catalog  
Freeman/BOT

**~~Certificate of Undergraduate Study~~**

**~~Actuarial Science (12)~~**

~~This certificate is open to ... requirements in the department.~~

**~~Requirements~~**

↓

~~Six or more semester hours in the minor must be taken at NIU.~~

GEC Other Catalog Change Page 319-320, 2018-19 Undergraduate Catalog

**Course List**

**Mathematical Sciences (MATH)**

↓

**Statistics (STAT)**

~~208. BASIC STATISTICS (3). ....~~

↓

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~~495. SPECIAL TOPICS IN ACTUARIAL SCIENCE (1-3). Discussion and study of readings on topics of special interest to undergraduate actuarial students, including preparation for actuarial examinations. May be repeated to a maximum of 6 semester hours. PRQ: Consent of division.~~

**The Center for Nonprofit and NGO Studies (NNGO)**

GEC Other Catalog Change Page 321, 2018-19 Undergraduate Catalog

**Major in Nonprofit and NGO Studies (B.A. or B.S.)**

↓

#WGS# 202 - Women and Cultural Expression (3)

↓

**Department of Political Science**

GEC Other Catalog Change Page 332-334, 2018-19 Undergraduate Catalog

**Emphasis 1. Politics and Governance**

**Requirements in Department (36)**

↓

Students must ensure ... encouraged to complete POLS 340 prior to taking STAT 304 200 or STAT 350 300.

**Requirements outside Department (B.A., 0-12; B.S., 10-15)**

↓

*For the B.S. degree*

Laboratory science/... does not include STAT 304 200 (4) or STAT 350 300 (3) will also be required to take ↓

**Emphasis 2. Public Law**

**Requirements in Department (36)**

↓

Students must ... complete POLS 340 prior to taking STAT 304 200 or STAT 350 300.

**Requirements outside Department (B.A., 0-12; B.S., 10-15)**

↓

*For the B.S. degree*

Laboratory science/... not include STAT 304 200 (4) or STAT 350 300 (3) will also be required to take one ↓

**Emphasis 3. Public Administration and Service**

↓

**SECTION B – Recorded, but further approval needed before inclusion in the Undergraduate Catalog**

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**Requirements in Department (36)**

↓

Students must ensure ... taking STAT ~~304~~ 200 or STAT ~~350~~ 300. The B.S. ....

**Requirements outside Department (B.A., 0-12; B.S., 10-15)**

↓

*For the B.S. degree*

Laboratory science/... include STAT ~~304~~ 200 (4) or STAT ~~350~~ 300 (3) will also ...

↓

**Emphasis 4. International Politics**

↓

**Requirements in Department (36)**

↓

Students must ensure ...taking STAT ~~304~~ 200 or STAT ~~350~~ 300.

↓

*For the B.S. degree*

Laboratory science/... include STAT ~~304~~ 200 (4) or STAT ~~350~~ 300 (3) will also be required to take one of

↓

**Emphasis 5. Justice and Democracy: The American Experiment**

**Requirements in Department (36)**

↓

**Senior Seminar (3)**

↓

Students must ensure ... taking STAT ~~304~~ 200 or STAT ~~350~~ 300.

**Requirements outside Department (B.A., 0-12; B.S., 10-15)**

↓

*For the B.S. degree*

Laboratory science/... include STAT ~~304~~ 200 (4) or STAT ~~350~~ 300 (3) will also ...

↓

**Department of Psychology (PSYC)**

GEC Course Revisions

Page 341-343, 2018-19 Undergraduate Catalog

305. RESEARCH METHODS (3). .... PRQ: At least sophomore standing, PSYC 102, and a grade of C or better in STAT ~~208~~ 100, STAT ~~304~~ 200, or STAT ~~350~~ 300, or consent of department.

306. ADVANCED RESEARCH METHODS (3). .... PRQ: At least sophomore standing, PSYC 102, a grade of C or better in a statistics course (STAT ~~208~~ 100, STAT ~~304~~ 200, or STAT ~~350~~ 300) and PSYC 305, or consent of department.

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351. INTRODUCTION TO PSYCHOLOGICAL TESTS (3). .... PRQ: At least sophomore standing, PSYC 102, and either STAT ~~304~~ 200 or STAT ~~350~~ 300; or consent of department.

**Department of Sociology (SOCl)**

GEC Course Revisions Page 347, 2018-19 Undergraduate Catalog

377B. SOCIOLOGICAL INQUIRY II (4). .... PRQ: SOCI 300 or consent of department; STAT ~~208~~ 100 or STAT ~~304~~ 200 or STAT ~~350~~ 300 or UBUS 223.

GEC Other Catalog Change Page 347, 2018-19 Undergraduate Catalog

**Requirements outside Department (B.A., 3-16; B.S., 11-15)**

*For the B.A. Degree*

\*STAT ~~208~~ 100 - Basic Statistics (3),  
OR STAT ~~304~~ 200 - Elementary Statistics (4)

↓

Group 1

↓

STAT ~~304~~ 200 - Elementary Statistics (4)

OR

Group 2

\*MATH 229 and MATH 230 - Calculus I and II (8)

STAT ~~350~~ 300 - Introduction to Probability and Statistics (3)

↓

Pres. Other Catalog Change New Section, 2018-19 Undergraduate Catalog  
Freeman/BOT

Note: Only the two majors are new proposals. The minors and the certificate are being moved from the Department of Mathematical Sciences.

**Department of Statistics and Actuarial Science (STAT, ACSC)**

The Department of Statistics and Actuarial Science offers B.S. degrees with a major in statistics and actuarial science.

The department also offers minors in statistics, and actuarial science. These minors should be of interest to students majoring in the physical or social sciences or in business. In addition, the department offers an honors program in statistics and actuarial science and participates in the University Honors Program.



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Several of the department's courses partially fulfill the university quantitative literacy foundational studies requirement, and others can be used by non-majors toward fulfilling the nature and technology knowledge domain requirement in the university's general education program. In addition, several of its courses are included as requirements for other programs.

**Department Regulations**

For all majors in the department, the GPA in the major is calculated by using only those statistics and actuarial science courses numbered 300 or above ~~which~~ that are available for credit toward the major.

**Department Requirements**

Students majoring or minoring in statistics or actuarial science must obtain a minimum GPA of 2.00 in those STAT/ACSC and mathematics and professional education courses applicable to their major or minor.

All majors are required to have a satisfactory portfolio of work done during their undergraduate studies on file in the Department of Statistics and Actuarial Science. The contents of the portfolio are ~~to be~~ used to assess the department's program and are to be accumulated largely through course work assignments and examinations; students are expected to cooperate with instructors as these items are collected. In addition, each student must submit in his or her senior year a 250-300 word typed essay describing the student's experience in the major, including comments on the connections of statistics with other disciplines. Details on the submission of materials and approval of the portfolio should be obtained from the student's adviser in the Department of Statistics and Actuarial Science.

With department permission, students are allowed to complete one major and one minor in the department. For the minor, the student must earn at least 6 semester hours in STAT/ACSC courses that are not counted in fulfillment of the major in the department. The major and the minor may not be in the same area.

**Proficiency Examination Policy**

Ordinarily students will not be allowed to attempt a proficiency examination for a course if they have received credit for a higher numbered course (for exceptions, consult the department).

**Major in Statistics (B.S.)**

The student learning outcomes for this degree are located at [www.niu.edu/assessment/clearinghouse/outcomes/index.shtml](http://www.niu.edu/assessment/clearinghouse/outcomes/index.shtml).

**Requirements in Department (30-32)**

\*STAT 300 - Introduction to Probability and Statistics (3)

STAT 400 - Probability (3)

OR ACSC 400X - Probability (3)

STAT 410 - Mathematical Statistics I (3)

STAT 415 - Computational Methods in Statistics (3)

STAT 435 - Applied Regression Analysis (3)

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STAT 437 - Categorical Data Analysis (3)

OR ACSC 437 - Categorical Data Analysis (3)

At least 6 additional semester hours of STAT courses numbered 400 or higher. ~~C~~ courses that are crosslisted with a STAT course may be counted towards this requirement (6-8)

At least 6 additional semester hours of STAT/ACSC/MATH courses numbered 400 or higher (6)

**Requirements outside Department (20)**

CSCI 240 - Computer Programming in C++ (4)

\*MATH 229 - Calculus I (4)

MATH 230 - Calculus II (4)

MATH 232 - Calculus III (4)

MATH 240 - Linear Algebra and Applications (4)

**Total Hours for a Major in Statistics: 50-52 (B.S.)**

**Recommendations for Statistics Students**

A minor in a discipline that uses ~~Statistics~~ statistics is highly recommended.

Internship opportunities in statistics are available with many employers, including pharmaceutical companies, insurance companies, manufacturing companies, and government agencies.

**Major in Actuarial Science (B.S.)**

The student learning outcomes for this degree are located at [www.niu.edu/assessment/clearinghouse/outcomes/index.shtml](http://www.niu.edu/assessment/clearinghouse/outcomes/index.shtml).

This major prepares students for careers in the actuarial profession and helps them learn material included in the Exams P / 1 (Probability), FM / 2 (Financial Mathematics), and Statistics and Risk Modeling of the Society of Actuaries (SOA) / Casualty Actuarial Society (CAS). A few courses relevant to Exam C / 4 (Construction and Evaluation of Actuarial Models) of the SOA / CAS, and to Exam MLC (Models for Life Contingencies) of the SOA are also available to actuarial students. The major also provides the Validation by Educational Experience (VEE) required by the societies if the students complete those courses with a grade of B or better.

**Requirements in Department (40)**

ACSC 417X - Applied Statistical Learning (3)

OR STAT 417 - Applied Statistical Learning (3)

ACSC 350 - Theory of Interest (4)

ACSC 400X - Probability (3)

OR STAT 400 - Probability (3)

ACSC 405 - Quantitative Methods for Actuaries (3)

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ACSC 450 - Life Contingencies and Payment Models I (3)  
STAT 300 - Introduction to Probability and Statistics (3)  
△STAT 410 - Introduction to Mathematical Statistics I (3)  
STAT 415 - Computational Methods in Statistics (3)

At least 12 additional semester hours of ACSC courses numbered 400 or higher or STAT 411. ~~C~~-courses that are crosslisted with an ACSC course may be counted towards this requirement (12).

At least 3 additional semester hours of STAT/ACSC courses numbered 400 or higher (3)

**Requirements outside Department (32)**

△ACCY 288 - Fundamentals of Accounting (3)  
CSCI 240 - Computer Programming in C++ (4)  
\*△ECON 260 - Principles of Microeconomics (3)  
\*△ECON 261 - Principles of Macroeconomics (3)  
△FINA 320 - Principles of Finance (3)  
\*MATH 229 - Calculus I (4)  
MATH 230 - Calculus II (4)  
MATH 232 - Calculus III (4)  
MATH 240 - Linear Algebra and Applications (4)

**Total Hours for a Major in Actuarial Science: 72 (B.S.)**

**Recommendations for Actuarial Students**

A minor in ~~Computer~~ ~~computer~~ ~~Science~~ ~~science~~ is highly recommended.

**Degree with Honors**

The Department of Statistics and Actuarial Science offers the exceptional student an opportunity to earn a degree with honors in any of the two majors. Any statistics or actuarial student may become a candidate for an honors degree at the end of the sophomore year provided the student has a 3.00 or higher overall GPA and has a 3.50 or higher GPA in all STAT/ACSC courses completed.

A student with these qualifications who wishes to become an honors degree candidate should go to the Department of Statistics and Actuarial Science to fill out a candidacy form and be assigned an honors adviser. After the end of the sophomore year, a student showing exceptional talent may also become an honors degree candidate by obtaining consent from the department.

Most 300-level and 400-level statistics and actuarial courses may be taken as honors courses.

**Requirements**

Maintain a 3.00 or higher overall GPA.

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Maintain a 3.50 or higher GPA for STAT/ACSC courses numbered 300 and above.

Take at least four STAT/ACSC honors courses numbered 300 or higher. In one of the 400-level honors courses, prepare and submit an independent study paper on a suitable topic. The paper must be approved by the instructor of the course and by the honors degree adviser.

**Minor in Statistics (21-23)**

\*MATH 229 - Calculus I (4)

MATH 230 - Calculus II (4)

MATH 232 - Calculus III (4)

STAT 300 - Introduction to Probability and Statistics (3)

Two STAT courses numbered 400 or above, courses that are crosslisted with a STAT course may be counted towards this requirement (6-8)

Six or more semester hours in the minor must be taken at NIU.

**Minor in Actuarial Science (29)**

This minor is designed to provide preparatory study in actuarial science. Specifically, students completing the required course work can take the professional Exams P/1 (Probability) and FM/2 (Financial Mathematics) of the Society of Actuaries/Casualty Actuarial Society.

ACSC 350 - Theory of Interest (4)

ACSC 400X - Probability (3)

OR STAT 400 - Probability (3)

ACSC 405 - Quantitative Methods for Actuaries (3)

\*MATH 229 - Calculus I (4)

MATH 230 - Calculus II (4)

MATH 232 - Calculus III (4)

MATH 240 - Linear Algebra and Applications (4)

STAT 300 - Introduction to Probability and Statistics (3)

Ten or more semester hours in the minor must be taken at NIU.

**Course List**

**Actuarial Sciences (ACSC)**

↓

**Statistics (STAT)**

↓

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**School of Art and Design**

**All University Section**

**Undergraduate Academic Programs**

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Freeman

**Bachelor of Fine Arts (B.F.A.)**

**College of Visual and Performing Arts**

Art **Studio and Design**

↓

**Baccalaureate Degree Majors**

↓

Art and design education-B.S.Ed.

Art history-B.A.

**Art studio and design-B.F.A.**

↓

Special education-B.S.Ed.

~~Studio art-B.F.A.~~

Technology-B.S.

↓

**Admission**

Pres. Other Catalog Change: Page 17, 2018-19 Undergraduate Catalog  
Freeman

**Undergraduate Admission**

↓

Applicants must meet additional criteria and/or submit additional ... ..

↓

School of Art and Design (art and design education; **art studio and design art**; visual communication area of study)

**Limited Admissions and Limited Retention Requirements**

Pres. Other Catalog Change: Page 28, 2018-19 Undergraduate Catalog  
Freeman

**Art Studio ~~Art~~ and Design Major (B.F.A.)**  
**(School of Art and Design)**

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A portfolio review is required for admission into the major in **art studio art and design** (B.F.A.) ... ..

**College Section**

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Freeman

**School Names and Undergraduate Programs Offered**

**School of Art and Design**



B.F.A. in **art studio art and design**

**School Section**

Pres. Other Catalog Change: Page 367, 2018-19 Undergraduate Catalog  
Freeman

**School of Art and Design (ART, ART-)**

**Admission to the areas of study in **art studio art and the visual communication** under the B.F.A. in **art studio art and design** is limited. See “Limited Admissions and Limited Retention Requirements” in the Admission section of this catalog.**

**Requirements for All Majors**

Admission into the major in Art and Design Education (B.S.Ed.) or in the **Art Studio Art and Design** specializations (B.F.A.) includes a portfolio review as indicated. ... ..

**Recommendation**



Transfer applicants for all emphases of the B.F.A. degree in **art studio art and design** (Design and Media Arts, **Art Studio**) must pass a portfolio review. ....

Pres. Other Catalog Change: Page 369, 2018-19 Undergraduate Catalog  
Freeman

**Major in **Art Studio Art and Design** (B.F.A.)**



A portfolio review is required for admission into the major in **art studio art and design** (B.F.A.) ... ..



**Emphasis 2. **Art Studio****

*Special requirements:* To enter the **art studio** emphasis of the major in **art studio art and design** (B.F.A.), students must ... 24 required semester hours of ARTS 200/300-level Core **Art Studio Art** Requirements, and pass a portfolio review. These special ... All eight courses (24 semester hours) listed in the Core **Art Studio Art** Requirements must be completed in conjunction with the **art studio** emphasis B.F.A. degree.

**SECTION B – Recorded, but further approval needed before inclusion in the Undergraduate Catalog**

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- ↓  
**Core Art Studio Art Requirements (24)**
- ↓  
**B.F.A. Art Studio Area Requirements (33)**
- ↓  
**Drawing Area Sub-Plan (33)**
- ↓  
ARTS/ARTD 300/400-level elective (9)<sup>2</sup>
- Illustration Area Sub-Plan (33)**
- ↓  
ARTS/ARTD 300/400-level electives (3)<sup>2</sup>
- Painting Area Sub-Plan (33)**
- ↓  
ARTS/ARTD 300/400-level electives (9)<sup>2</sup>
- Printmaking Area Sub-Plan (33)**
- ↓  
ARTS/ARTD 300/400-level electives (9)<sup>2</sup>
- Ceramics Area Sub-Plan (33)**
- ↓  
ARTS/ARTD 300/400-level electives (3)<sup>2</sup>
- Fiber Area Sub-Plan (33)**
- ↓  
Three of the following (9)  
ARTS 368<sup>1</sup> - Introduction to Fiber: Papermaking (3)  
ARTS 371<sup>1</sup> - 2D/3D Woven Construction (3)  
ARTS 372<sup>1</sup> - Print, Dye, Paint, Stitch (3)  
ARTS 374<sup>1</sup> - Introduction to Fiber: Installation and Fiber Sculpture (3)  
ARTS/ARTD 300/400-level electives (9)<sup>2</sup>
- Metalwork, Jewelry Design, and Digital Fabrication Area Sub-Plan (33)**
- ↓  
ARTS/ARTD 300/400-level electives (9)<sup>2</sup>
- Sculpture Area Sub-Plan (33)**
- ↓  
ARTS/ARTD 300/400-level electives (9)<sup>2</sup>

BACCALAUREATE COUNCIL  
Fourth Meeting/2018-19 Academic Year  
December 6, 2018

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**Total Hours for Emphasis 2, Art Studio: 78**

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<sup>1</sup>May not be repeated in the fiber area sub-plan if taken to fulfill Core Art Studio Requirements.

<sup>2</sup>Additional studio electives required beyond 24 credits listed in Core Art Studio ~~Art~~ and Sub-Plan requirements.

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**Minor in Art (21)**

Declaration of this minor by students majoring in art and design education (B.S.Ed.) or art studio ~~art~~ and design (B.F.A.) is not permitted.

Pres. Other Catalog Change: Page 371, 2018-19 Undergraduate Catalog  
Freeman

**Minor in Art History (18)**

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Declaration of this minor by students majoring in art (B.A. or B.S.), art and design education (B.S.Ed.), or art studio ~~art~~ and design (B.F.A.) is permitted.