GRADUATE COUNCIL CURRICULUM COMMITTEE (GCCC)
Third Meeting/2018-19 Academic Year
February 11, 2019

SECTION C – Items previously in Section B, now reported for inclusion in the 2019-20 Graduate Catalog

p. 1 of 14

COLLEGE OF BUSINESS

Department of Finance

Pres. Other catalog change

Page 66, 2018-19 Graduate Catalog

Freeman

Master of Science in Financial Risk Management

The M.S. in financial risk management program provides advanced study to prepare students for careers in risk management in banks, investment firms, and in corporate treasury departments. The program is designed for full-time students. It focuses on the latest advances in hedging and risk mitigation techniques incorporating the use of complex financial instruments, including swaps, futures, forwards, and options.

Admission

In addition to the College of Business standards listed under "Graduate Study in Business," an applicant is required to have a baccalaureate degree from an accredited institution with at least 15 semester hours in finance or department approval.

Phase One

See Phase One Requirements listed under "Graduate Study in Business." AND

The Phase One foundation courses will be included in a student's program of study unless she or he has earned a C or better in corresponding undergraduate courses or a B or better in equivalent graduate courses elsewhere, or has passed the first and only attempt of the Phase One exemption examination.

In addition, those students who do not have 15 undergraduate semester hours in finance must complete FINA 607, FINA 620, and FINA 650 (or their equivalents) with a grade of B or better in each course.

Requirements

FINA 555 - Analysis of Derivative Securities (3)

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FINA 688 - Financial Risk Management II (3)

Master of Science in Finance

The advanced study in the M.S. in Finance program provides the tools and skills to prepare students for careers in a variety of fields, including investment and commercial banking, asset and wealth management, insurance, trading, and corporate finance and treasury functions. Small M.S. in Finance classes, as well as courses taken with MBA students, maximize interaction and learning throughout the program. Graduate Certificates of Study that reflect the current demands of the job market offer the flexibility to tailor students' learning experience to their career goals.

GRADUATE COUNCIL CURRICULUM COMMITTEE (GCCC)
Third Meeting/2018-19 Academic Year
February 11, 2019

SECTION C – Items previously in Section B, now reported for inclusion in the 2019-20 Graduate Catalog

p. 2 of 14

Admission

In addition to the College of Business standards listed under "Graduate Study in Business," an applicant is required to have a baccalaureate degree from an accredited institution. Students with non-finance undergraduate degrees may be required to take additional undergraduate and graduate courses, as determined by the department. Such courses do not apply toward the degree.

Requirements

Students seeking the M.S. in Finance degree must complete 18 semester hours of required course work along with 12 semester hours of electives.

Required Courses (18)

FINA 575 - Financial Data Analysis (3)

FINA 607 - Financial Analysis (3)

FINA 620 - Investment Fundamentals (3)

FINA 630 - Analysis of Fixed Income Securities (3)

FINA 650 - Fundamentals of Financial Markets (3)

FINA 674 - Financial Risk Management I (3)

Four of the following electives (12)

FINA 555 - Analysis of Derivative Securities (3)

FINA 560 - Financial Markets and Investments (3)

FINA 603 - Seminar in Financial Research (3)

FINA 622 - Security Analysis (3)

FINA 623 - Investment Management (3)

FINA 662 - Financial Management Strategies (3)

FINA 688 - Financial Risk Management II (3)

Pres. Freeman 1/24/19, GCCC Sec B 11/12/18

COLLEGE OF EDUCATION

Department of Counseling, Adult, and Higher Education

The Graduate School

BOT/ Other Catalog Change

Page 10, 2018-19 Graduate Catalog

Pres. Freeman

Graduate Programs

GRADUATE COUNCIL CURRICULUM COMMITTEE (GCCC)
Third Meeting/2018-19 Academic Year
February 11, 2019

SECTION C – Items previously in Section B, now reported for inclusion in the 2019-20 Graduate Catalog

p. 3 of 14

College of Education

Department of Counseling, Adult and Higher Education

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Doctor of Education (Ed.D.)

Adult and Higher Education

with specialization in

College Teaching

Community College Leadership

Higher Education Administration

Pres. Freeman 1/24/19 for name change only, GCCC Sec B 11/12/18

Admission to Graduate Study

Pres. Other Catalog Change

Page 19, 2018-19 Graduate Catalog

Freeman

Graduate Record Examination (GRE)

↓
Master of Science in Education in Adult and Higher Education and Student Affairs (exempt);

Ed.D in Adult and Higher Education (exempt)

Applicants to graduate programs ..., and literacy education and the doctoral program in adult and higher education may submit Miller Analogies Test (MAT) scores in lieu of GRE scores.

Pres. Freeman 1/24/19 name change to doctoral degree, GCCC Sec B 11/12/18

Requirements for Graduate Degrees

Pres. Other Catalog Change

Page 35, 2018-19 Graduate Catalog

Freeman

Requirements for the Degrees

Doctor of Education

Doctor of Philosophy

 \downarrow

Doctor of Education (Ed.D.) degrees are offered in adult and higher education, curriculum and instruction,

Pres. Freeman 1/24/19 name change to doctoral degree, GCCC Sec B 11/12/18

University Services

GRADUATE COUNCIL CURRICULUM COMMITTEE (GCCC) Third Meeting/2018-19 Academic Year February 11, 2019

SECTION C – Items previously in Section B, now reported for inclusion in the 2019-20 Graduate Catalog

p. 4 of 14

Other Catalog Change Pres.

Page 54, 2018-19 Graduate Catalog

Freeman

Regional Programs

College of Education: M.S.Ed. in adult and higher education and student affairs, counseling, ... educational administration; and Ed.D. in adult and higher education, curriculum and instruction, and educational administration

Pres. Freeman 1/24/19 name change to doctoral degree, GCCC Sec B 11/12/18

Department Section

Pres. Course Revision

Graduate Catalog

Freeman

CAHA HESA 799. DOCTORAL RESEARCH AND DISSERTATION (1-15). May be repeated, but no more than 30 semester hours may be applied toward the Ed.D. degree in adult and higher education. PRO: Candidacy for the doctoral degree and consent of chair of doctoral committee.

Pres. Freeman 1/24/19 name change to doctoral degree, GCCC Sec B 11/12/18

Pres. Other Change Page 82-83, 2018-19 Graduate Catalog

Freeman/

BOT Doctor of Education in Adult and Higher Education

The Ed.D. program in adult and higher education provides a sequenced program with course work in areas of instruction, educational policy, administration, and research to prepare both generalists and specialists in the field. Doctoral students in adult and higher education prepare for leadership and teaching roles in a variety of adult and higher education contexts including student affairs, academic affairs, and other areas of higher education administration.

Application Deadlines

Admission to the doctoral program in adult and higher education is competitive and takes place once a year in the spring. Students are admitted for the fall semester. All materials must be received by the Graduate School and the Department of Counseling, Adult and Higher Education=no later than February 1 March 1.

Admission

Admission to the doctoral program requires a master's degree either in adult education, and higher education and student affairs, or in another discipline acceptable to the admissions committee. Three letters of recommendation are required from professors, employers, or supervisors who can provide supportive

GRADUATE COUNCIL CURRICULUM COMMITTEE (GCCC)
Third Meeting/2018-19 Academic Year
February 11, 2019

SECTION C – Items previously in Section B, now reported for inclusion in the 2019-20 Graduate Catalog

p. 5 of 14

evidence of an applicant's professional qualifications and potential. Each applicant must submit a resume/CV and written goals statement. Ordinarily, An interview with the adult and higher education admissions committee may be required. The faculty reserves the right to request additional evidence of potential such as assessment letters from adult and higher education faculty. Applicants must contact the admissions committee chair about additional requirements.

Student-at-Large, Study-Abroad, and Transfer Credit

A maximum of 15 student at large semester hours of post master's course work taken at NIU or at another university may be transferred into a student's doctoral degree program. Students-at-large are normally prohibited from registering for higher education Ed.D. courses. Transfer students will be considered on a case-by-case basis and can transfer in a maximum of 9 eredits-semester hours into a student's doctoral degree program. See "Requirements for Graduate Degrees" for limitation on study-abroad credit.

Requirements

Upon admission, a-students are expected to meet with his/hertheir adviser to complete a program of study and choose an emphasis: College Teaching or Higher Education Administration.

The Ed.D. program in adult and higher education requires a minimum of 54 semester hours beyond the master's degree. Students are required to take 1521 semester hours of common requirements, 12 semester hours of research methodology, 15-21 semester hours in their area emphasis specialization, and 12 semester hours of dissertation.

Common Requirements (21)

ETR 521 - Educational Statistics 1 (3)

CAHA 570 - Organization, Personnel Management, and Academic Administration (3)

HESA CAHA 702 - Philosophy of Postsecondary Education (3)

CAHA 710 - Evaluating Higher Education Programs (3)

CAHA 720 - Review of Research in Adult and Higher Education (3)

CAHA 721 - Applied Research Design in Adult and Higher Education (3)

CAHA 798 - Research Seminar in Adult and Higher Education (3)

CAHE 770 - Administration of Higher Education (3)

Research Methodology Requirements (12)

CAHA 721 - Applied Research Design in Adult and Higher Education (3)

CAHE 572 - Assessment Methods in Higher Education (3)

ETR 521 - Educational Statistics 1 (3)

ETR 790 - Workshop: Community-Base and Participatory Action Research (3)

Area of Study Specialization (1521)

Choose with guidance from academic adviser.

GRADUATE COUNCIL CURRICULUM COMMITTEE (GCCC)
Third Meeting/2018-19 Academic Year
February 11, 2019

SECTION C – Items previously in Section B, now reported for inclusion in the 2019-20 Graduate Catalog

p. 6 of 14

Specialization in College Teaching

CAHA 502 - Educating for Equity and Social Justice in Higher Education (3)

CAHA702 - Philosophy of Postsecondary Education (3)

CAHA 530 - Instructional Theory, Practice and Teaching in Postsecondary Education (3)

CAHA 733 - Theory Building for Learning in Postsecondary Education (3)

CAHA 740 - Pedagogical Innovations and Student Learning (3)

CAHA 759 - Critical and Feminist Pedagogies in Adult and Higher Education (3)

Elective (3)

Specialization in Community College Leadership

CAHA 555 - Seminar in the Community College (3)

CAHA 575 - Public Policy Studies in Higher Education (3)

CAHE 704 - Strategic Marketing and Enrollment Management (3)

CAHA 740 - Pedagogical Innovations and Student Learning (3)

CAHE 751 - Community College Students (3)

CAHE 771 - Legal Aspects of Higher Education Administration (3)

CAHE 772 - Financing in Higher Education (3)

Specialization in Higher Education Administration

CAHA 502 - Educating for Equity and Social Justice in Higher Education (3)

CAHA 575 - Public Policy Studies in Higher Education (3)

CAHE 503 - U.S. College Students

CAHA 702 - Philosophy of Postsecondary Education (3)

CAHE 703 – Postsecondary Access in Higher Education (3)

CAHE-771- Legal Aspects of Higher Education Administration (3)

CAH-772 - Financing Higher Education (3)

Elective (3)

CAHA 799 - Doctoral Research and Dissertation (12)

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Examinations

Candidacy examination. Students will need to successfully pass their candidacy examination prior to registering for CAHA 799 -Doctoral Research and Dissertation. The examination is offered in several formats, to be decided in conjunction with the program committee. A graduate student eligible to take this examination, with the permission of the chair of the doctoral committee, will have completed at least two-thirds of his or her courses, exclusive of dissertation research, but including the common requirements. Once a student has successfully completed the candidacy examinations and is admitted to candidacy, she or hethey must assemble a dissertation committee. This committee ordinarily includes a chair from the adult and higher education faculty with at least two other members. one of whom is from outside the adult and higher

GRADUATE COUNCIL CURRICULUM COMMITTEE (GCCC)
Third Meeting/2018-19 Academic Year
February 11, 2019

SECTION C – Items previously in Section B, now reported for inclusion in the 2019-20 Graduate Catalog

p. 7 of 14

education faculty. The committees must also meet all Graduate School requirements.

A final oral examination related to the dissertation is required and is conducted in accordance with the general requirements of the Graduate School.

Specialization in Community College Leadership

The specialization in Community College Leadership is designed

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Dissertation

CAHA 799 - Dissertation (12)

Pres. Freeman 1/24/19 name change to doctoral degree only, GCCC Sec B 11/12/18

Department of Kinesiology and Physical Education

All University Sections

The Graduate School

Pres. Other Catalog Change

Page 11, 2018-19 Graduate Catalog

Freeman

Graduate Programs

↓

Department of Kinesiology and Physical Education

↓ Ma

Master of Science in Education (M.S.Ed.)

Kinesiology and Physical Education

with or without specialization in Adapted Physical Education

Adapted I hysical Education

Exercise Physiology/Fitness Leadership

Pres. Freeman 1/24/19, GCCC Sec B 11/12/18

Directory for Correspondence

Pres. Other Catalog Change

Page 14, 2018-19 Graduate Catalog

Freeman

Graduate Degree Programs, Specializations, and Departments

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Exercise Physiology/Fitness Leadership: See Kinesiology and Physical Education

GRADUATE COUNCIL CURRICULUM COMMITTEE (GCCC)
Third Meeting/2018-19 Academic Year
February 11, 2019

SECTION C – Items previously in Section B, now reported for inclusion in the 2019-20 Graduate Catalog

p. 8 of 14

Pres. Freeman 1/24/19, GCCC Sec B 11/12/18

Department Section

Pres. Other Catalog Change

Page 110, 2018-19 Graduate Catalog

Freeman

Master of Science in Education in Kinesiology and Physical Education

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Requirements

The M.S.Ed. in kinesiology ..., a specialization in exercise physiology/fitness leadership, or a specialization in pedagogy, curriculum development in physical education.

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In each of the specializations, students are required to take 9-152 semester hours of professional courses in the department that identify the specialization. Students electing to do a thesis option are required to take 6 semester hours of thesis work with the remaining 9-semester hours of electives approved by the student's adviser selected from a list of courses either in the department and/or outside of the department. Students taking the non-thesis option are required to complete additional 15-semester hours of electives approved by the student's adviser. A minimum of 6 semester hours of electives must be selected from a list of courses within the department.

Pres. Freeman 1/24/19, GCCC Sec B 11/12/18

Other Catalog Change Page 110, 2018-19 Graduate Catalog

Master of Science in Education in Kinesiology and Physical Education

1

Specialization in Exercise Physiology/Fitness Leadership

This specialization is designed to provide knowledge and skills to students in the area of exercise physiology and/or fitness leadership. Students with such a ... teaching, and applied/practical/laboratory positions fitness leadership-in hospitals, corporations, and health clubs.

Pres. Freeman 1/24/19, GCCC Sec B 11/12/18

COLLEGE OF LIBERAL ARTS AND SCIENCES

Department of Mathematical Sciences/Division of Statistics

All University Section

GRADUATE COUNCIL CURRICULUM COMMITTEE (GCCC) Third Meeting/2018-19 Academic Year February 11, 2019

SECTION C – Items previously in Section B, now reported for inclusion in the 2019-20 Graduate Catalog

p. 9 of 14

Inter-College Interdisciplinary Certificates

BOT/ Other Catalog Change Page 329, Graduate Catalog IBHE

Homeland Security

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Environmental and Hazards Risk Assessment Track (15-18)

 ${\bf Coordinators: David\ Changnon, Department\ of\ Geographic\ and\ Atmospheric\ Sc} iences;\ Alan$

Polansky, Department of Mathematical Sciences Statistics and Actuarial Science

Pres. Freeman 1/8/19, GCCC Sec. B 11/12/18

Department/Division Section

Pres. <u>Course revisions</u> Graduate Catalog

Freeman

STAT 511. MATHEMATICAL STATISTICS II (3). PRQ: STAT 510 or consent of division department.

STAT 515. STATISTICAL COMPUTING (3). PRQ: STAT 510, and either CSCI 230 or CSCI 240, or consent of the division department.

STAT 517. APPLIED STATISTICAL LEARNING (3). PRQ: STAT 510 or consent of division department.

STAT 536. DESIGN AND ANALYSIS OF EXPERIMENTS (3). PRQ: STAT 535 or consent of division department.

STAT 537. CATEGORICAL DATA ANALYSIS (3). PRQ: STAT 535 or consent of division department.

STAT 610. THEORY OF STATISTICS I (3). PRQ: STAT 500 or consent of the division department.

STAT 611. THEORY OF STATISTICS II (3). PRQ: STAT 610 or consent of the division department.

STAT 617. STATISTICAL LEARNING (3). PRQ: STAT 510 or STAT 537 or consent of division department.

STAT 639. SURVIVAL ANALYSIS (3). PRQ: STAT 510 or consent of division department.

GRADUATE COUNCIL CURRICULUM COMMITTEE (GCCC) Third Meeting/2018-19 Academic Year February 11, 2019

SECTION C – Items previously in Section B, now reported for inclusion in the 2019-20 Graduate Catalog

p. 10 of 14

STAT 640. LONGITUDINAL DATA ANALYSIS (3). PRQ: STAT 510 and STAT 535, or consent of division department.

STAT 642. QUANTITATIVE RISK MANAGEMENT (3). PRQ: STAT 500 or consent of division department.

STAT 644. GENERALIZED LINEAR MODELS (3). PRQ: STAT 611 or consent of division department.

Pres. Freeman 1/8/19, GCCC Sec. B 11/12/18

Pres. <u>Course revisions</u> Graduate Catalog

Freeman

STAT 500. INTRODUCTION TO PROBABILITY THEORY (3). ... PRQ: MATH 232 and STAT 350, or consent of division department. CRQ: MATH 240 or consent of division department.

STAT 510. MATHEMATICAL STATISTICS I (3). PRQ: STAT 400 or ACSC 400X, or STAT 570 500; or consent of division department.

STAT 535. APPLIED REGRESSION ANALYSIS (3). PRQ: STAT 300, or consent of division department.

STAT 538. APPLIED ANALYSIS OF TIME SERIES (3). PRQ: STAT 535 or consent of division department.

STAT 635. REGRESSION ANALYSIS (3). PRQ: STAT 611 or consent of division department.

STAT 637. MODELS FOR DISCRETE DATA (3). ... PRQ: STAT 510 and STAT 537, or consent of division department.

STAT 667. RELIABILITY AND LIFE TESTING (3). PRQ: STAT 510 or consent of division department.

STAT 600. PROBABILITY THEORY (3). PRQ: MATH 630 and STAT 500, or consent of division department.

STAT 601. STOCHASTIC PROCESSES II (3). PRQ: STAT 600 or consent of division department.

STAT 643. LINEAR MODELS (3). CRQ: STAT 611 or consent of division department.

GRADUATE COUNCIL CURRICULUM COMMITTEE (GCCC) Third Meeting/2018-19 Academic Year February 11, 2019

SECTION C – Items previously in Section B, now reported for inclusion in the 2019-20 Graduate Catalog

p. 11 of 14

STAT 645. MULTIVARIATE STATISTICS (3). PRQ: STAT 510 or consent of division department.

STAT 646. NON-PARAMETRIC STATISTICS (3). ... PRQ: STAT 611 or consent of division department.

STAT 638. TIME SERIES ANALYSIS (3). PRQ: STAT 510 or consent of division department.

STAT 625. BAYESIAN STATISTICS (3). PRQ: STAT 510 or consent of division department.

STAT 695. STATISTICAL CONSULTING (3). PRQ: Consent of division department.

STAT 697. INDEPENDENT STUDY (1-9). PRQ: Consent of division department.

Pres. Freeman 1/8/19, GCCC Sec. B 11/12/18

Pres. <u>Course revisions</u>

Graduate Catalog

Freeman

STAT 699. MASTER'S THESIS (1-6). May be repeated to a maximum of 6 semester hours. PRQ: Consent of division department.

STAT 775. TOPICS IN STATISTICS (3). Content varies; may PRQ: Consent of division department.

STAT 790. SEMINAR IN STATISTICS (1-9). Discussions on topics PRQ: Consent of division department.

Pres. Freeman 1/8/19, GCCC Sec. B 11/12/18

Pres. Other Catalog Change

Page 262, Graduate Catalog

Freeman

Master of Science in Applied Probability and Statistics

At the time of admission ... student's program.

4

Division of Statistics (3)

Note: This program is not being deleted. It will be housed in the new Department of Statistics with a revised name.

Pres. Freeman 1/8/19, department name change only, Pres. Freeman degree name change, GCCC Sec B 11/12/18

GRADUATE COUNCIL CURRICULUM COMMITTEE (GCCC)
Third Meeting/2018-19 Academic Year
February 11, 2019

SECTION C – Items previously in Section B, now reported for inclusion in the 2019-20 Graduate Catalog

p. 12 of 14

Pres. Other Catalog Change Page 262, Graduate Catalog
Freeman

Course List (MATH)

↓
Statistics (STAT)

Statistics (STAT)

550. BASIC PROBABILITY MODELS AND STATISTICAL INFERENCE (3).

‡
790. SEMINAR IN STATISTICS (1-9).

Note: Courses are being deleted and revised as indicated in the other sections of these minutes. This is to remove them from the course list under Mathematical Sciences since they will now be housed in the new Department of Statistics.

Pres. Freeman 1/8/19, GCCC Sec. B 11/12/18

BOT/ Other Catalog Change

Page 295, Graduate Catalog

IBHE/Pres. Freeman

Department of Statistics and Actuarial Science (STAT)

Chair: Barbara Gonzalez

Graduate Faculty

Nader Ebrahimi, emeritus distinguished research professor, Ph.D., Iowa State
Barbara Gonzalez, chair, associate professor, Ph.D., Cornell University
Lei Hua, associate professor, Ph.D., University of British Columbia
Alan Polansky, associate professor, Ph.D., Southern Methodist University
Duchwan Ryu, associate professor, Ph.D., Texas A&M
Michelle Xia, assistant professor, Ph.D., University of British Columbia
Haiming Zhou, assistant professor, Ph.D., University of South Carolina, Columbia University

Haiming Zhou, assistant professor, Ph.D., University of South Carolina, Columbia University
The Department of Statistics and Actuarial Science offers graduate programs leading to the M.S. in
statistics; and the Ph.D. in mathematical sciences. Applicants to these graduate programs are normally
notified of an admission decision within three weeks of receipt of the complete application.

If a student in an M.S. program has already completed a required 400-level course with a grade of C or better as an undergraduate at NIU, that course requirement will be waived in the student's M.S. program. Other graduate course work will be substituted to complete the required program, with the approval of the

GRADUATE COUNCIL CURRICULUM COMMITTEE (GCCC)
Third Meeting/2018-19 Academic Year
February 11, 2019

SECTION C – Items previously in Section B, now reported for inclusion in the 2019-20 Graduate Catalog

p. 13 of 14

student's adviser.

Master of Science in Statistics

At the time of admission each student is expected to have completed a standard three-course sequence in calculus and a course in elementary linear algebra. Courses equivalent to CSCI 230 and one from STAT 400 and STAT 435, must also have been completed. Any deficiencies should be removed at the beginning of the student's program.

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

Requirements

Complete at least 33 semester hours of graduate work, with at least 21 <u>semester</u> hours completed in STAT courses numbered 600 and above. At most, six semester hours can be courses offered outside of the Department of Statistics and Actuarial Science. These courses might only be taken with prior permission of the student's adviser.

Follow a program of study approved by the Department of Statistics and Actuarial Science.

Write a <u>Master's master's</u> thesis or pass a comprehensive examination based upon <u>his or herstudent's</u> plan of study. Usually, a student pursuing full-time graduate study will be required to write a <u>Master's master's</u> thesis or take the comprehensive examination within two academic years of admission to the Graduate School. A student who fails the examination may, with the permission of the department, repeat it once.

Thesis Option. The thesis option is usually recommended by the department. Each student pursuing this option must enroll in MATH 699, Master's Thesis, for at least two semesters, and submit a written thesis. Up to three semester hours credit in MATH 699 may be applied toward the degree. The student's thesis adviser serves as chair of the graduate committee that administers a defense of the thesis.

Non-Thesis Option. The non-thesis option is primarily for students who intend to pursue doctoral work in the mathematical sciences at NIU. With departmental consent, the student must complete a 33-semester hour program of courses approved by the department and pass a written comprehensive examination.

Course Requirements

STAT 515 - Statistical Computing (3)

STAT 610 - Theory of Statistics I (3)

STAT 611 - Theory of Statistics II (3)

STAT 695 - Statistical Consulting (3)

GRADUATE COUNCIL CURRICULUM COMMITTEE (GCCC)
Third Meeting/2018-19 Academic Year
February 11, 2019

SECTION C – Items previously in Section B, now reported for inclusion in the 2019-20 Graduate Catalog

p. 14 of 14

Four STAT courses numbered 600 or above (12)

Four STAT courses numbered 500 or above (12). With consent of the department, up to two of these may be graduate level courses offered outside of the Department of Statistics and Actuarial Science.

With the consent of the department, a student may include STAT 699, Master's Thesis, for up to 3 semester hours of credit, in the 33 semester hours required for a master's degree.

Doctor of Philosophy in Mathematical Sciences

Please refer to the Department of Mathematical Sciences catalog entry for this degree.

Course List (STAT)

500. INTRODUCTION TO PROBABILITY THEORY (3). Includes probability spaces, random variables, discrete, continuous, mixed probability distributions, moment generating functions, multivariate distributions, conditional probability, conditional expectation, special distributions, laws of large numbers, and central limit theorem. PRQ: MATH 232 and STAT 350, or consent of department. CRQ: MATH 240 or consent of department.

STAT 790. SEMINAR IN STATISTICS (1-9). Discussions on topics in advanced probability and statistics as scheduled. Topics include but are not limited to probability theory, stochastic processes, statistical inference, nonparametric statistics, multivariate analysis, linear and nonlinear models, discrete data analysis, time series. One to 9 semester hours as scheduled. May be repeated to a maximum of 24 semester hours, not more than 15 of which may be on a single topic. PRQ: Consent of department.

Note: These are not all new courses. They are being moved to the new department from the Department of Mathematical Sciences.

Pres. Freeman 1/8/19 for name change, Pres. Freeman 1/24/19 for degree name change, GCCC Sec. B 11/12/18