

Received by the Graduate Council, with the exception of department name change for the Department of Counseling, Adult and Higher Education—December 3, 2018

GRADUATE COUNCIL CURRICULUM COMMITTEE (GCCC)
Second Meeting 2018-19 Academic Year
November 12, 2018

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COLLEGE OF BUSINESS

Department of Accountancy

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Certificates of Graduate Study

The Department of Accountancy offers several certificates of graduate study designed for students interested in furthering their knowledge and skills in Accountancy.

The admission criteria follow:

Certificate of Foundation of Accountancy:

- An undergraduate degree with a cumulative GPA of 2.75.
- A grade of C or better in a financial accounting concepts course taken within the last five years or pass the related exemption exam, or department consent.
- A grade of C or better in a managerial accounting concepts course taken within the last five years or pass the related exemption exam, or department consent.

Certificate of Advanced Study in Accountancy and Certificate of Advanced Study in Accounting Analytics:

- An undergraduate degree from an accredited institution with at least 15 semester hours in accounting or department approval (prior work experience will be given consideration). If applicants do not have an undergraduate business degree from an AACSB-accredited institution, they must have a minimum GPA of 2.75 (on a 4.00 scale) in the last 60 semester hours of the baccalaureate program or a minimum cumulative GPA of 2.75 (on a 4.00 scale) at the baccalaureate institution.

Students interested in a certificate should apply no later than the Graduate School admission deadline. Students are also required to complete an application with the certificate coordinator. The department application for admission and other pertinent information are available on the Department of Accountancy website: www.cob.niu.edu/accy/.

To successfully complete any certificate program, a student must have a cumulative GPA of 3.00 in the certificate courses. All courses must be completed at NIU within six calendar years of starting.

Foundation of Accountancy (15)

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ACCY 560 - Assurance Services (3)

Advanced Study in Accountancy (15)

The Certificate of Advanced Study in Accountancy is ideally suited for students pursuing short-term study focused on selected technical areas related to accountancy. The certificate is designed for graduate-level

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students interested in the advancement of their skills beyond the bachelor's degree or in preparation for certification examinations in accountancy. Credit earned with a C or better in courses numbered 600 or above will fulfill requirements toward the Master of Accounting Science (see Master of Accounting Science admission requirements).

The total semester hours accepted for this certificate is 15 semester hours. Enrollment in this certificate beyond 15 hours is only possible with the permission of the Director of Graduate Studies.

Required Courses:

Course work from the following (15):

- ACCY 562 - Internal Auditing (3)
- ACCY 580 - Governmental and Not-for-Profit Accounting (3)
- ACCY 633 - Advanced Financial Reporting (3)
- ACCY 645 - Professional Tax Research (3)
- ACCY 647 - Corporate Taxation (3)
- ACCY 650 - Advanced Issues in Taxation (3)
- ACCY 656 - Tax Concepts and Property Transactions (3)
- ACCY 664 - Financial Statement Auditing (3)
- ACCY 670 - Accounting Research (3)
- ACCY 675 - Data Analytics and Decision Making in Accounting (3)
- ACCY 679 - Seminar in Accounting (3)
- ACCY 680 - Advanced Governmental and Not-For-Profit Accounting (3)
- ACCY 682 - International Accounting (3)

Advanced Study in Accounting Analytics (15)

The Certificate of Advanced Study in Accounting Analytics is designed for graduate-level students interested in increasing data analysis and problem solving skills in accountancy. Credit earned with a C or better in ACCY courses numbered 600 or above will fulfill requirements toward the Master of Accounting Science (see Master of Accounting Science admission requirements).

The total semester hours accepted for this certificate is 15 semester hours. Enrollment in this certificate beyond 15 semester hours is only possible with the permission of the Director of Graduate Studies.

Required Courses:

- ACCY 675 - Data Analytics and Decision Making in Accounting (3)
- Course work from the following (12):
- ACCY 565 - Forensic Accounting/Fraud Examination (3)
- ACCY 611 - Advanced Accounting Information Systems (3)
- ACCY 622 - Managerial Accounting Information Systems (3)
- ACCY 667 - Information Systems Auditing (3)
- ACCY 676 - Analytics and Decision Making in Taxation (3)
- ACCY 677 - Advanced Analytics and Decision Making in Taxation (3)

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An OMIS course numbered 600 or above with approval of the Director of Graduate Studies (3)

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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.

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

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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)

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Certificate of Graduate Study

Financial Risk Management (12)

Coordinator: Chair of the department.

Certificate provides graduate students with a set of courses focused upon financial risk management for careers in risk management in banks, investment firms, and other financial institutions. The program introduces the latest advances in hedging and risk mitigation techniques incorporating the use of complex financial instruments, including swaps, futures, forwards, and options.

The ~~Certificate~~-certificate is a non-degree program open to all students admitted to degree and non-degree study at Northern Illinois University. Students must earn an average GPA of 3.00 in the courses applied toward the certificate and complete all certificate course work within six years immediately preceding the awarding of the certificate. Some courses may have prerequisites that are not part of the certificate curriculum.

Applications are available in the Department of Finance-Department. Students must be in good academic

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standing to be eligible.

Requirements

FINA 555 - Analysis of Derivative Securities (3)

FINA 560 - Financial Markets and Investments (3)

FINA 662 - Financial Management Strategies (3)

FINA 688 - Financial Risk Management II (3)

COLLEGE OF EDUCATION

Department of Counseling, Adult, and Higher Education

~~All University Sections~~

~~Contents~~

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~~College of Education 78~~

~~Counseling, Adult and Higher Education and Student Affairs 80~~

~~‡~~

The Graduate School

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Graduate Programs

↓

College of Education

~~Department of Counseling, Adult and Higher Education and Student Affairs~~

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

~~Adult and Higher Education and Student Affairs~~

~~with or without specialization in~~

~~Adult Education~~

~~Higher Education~~

Doctor of Education (Ed.D.)

Adult and Higher Education

with specialization in

College Teaching

Community College Leadership

Higher Education Administration

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The Graduate School

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Graduate Concentrations and Certificates of Graduate Study

- ↓
- Certificates of Graduate Study**
- Adapted Physical Education ...
- ~~Adult Education~~
- Advanced Qualitative Methodology in Education
- ↓
- CAD/CAM/CAE:
- ~~Career Development~~
- College Teaching:
- ↓

Directory for Correspondence

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Graduate Degree Programs, Specializations, and Departments

- ↓
- Adapted Physical Education: See Kinesiology and Physical Education
- ~~Adult and Higher Education: See Counseling, Adult and Higher Education~~
- Advanced Special Education Practices:
- ↓
- Computer Science: Robert Zerwekh, Ph.D., departmental director of graduate studies
- ~~Counseling: See Counseling, Adult and Higher Education~~
- ~~Counseling, Adult and Higher Education and Student Affairs: Suzanne Degges-White, Ph.D., chair of department~~
- ↓
- Health Studies: James Ciesla, interim chair of school
- Higher Education: See Counseling, Higher Education and Student Affairs**
- History: Anne Hanley, Ph.D., departmental director of graduate studies
- ↓
- ~~Graduate Concentrations and Certificates of Graduate Study~~
- ↓
- ~~Higher Education: Chair, Department of Counseling, Adult and Higher Education and Student Affairs~~
- ↓

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Graduate Concentrations and Certificates of Graduate Study

↓

Adapted Physical Education ...

~~Adult Education: Chair, Department of Counseling, Adult and Higher Education~~

Advanced Qualitative Methodology in Education ...

↓

CAD/CAM/CAE:

~~Career Development: Chair, Department of Counseling, Adult and Higher Education~~

College Teaching:

↓

Graduate Concentrations and Certificates of Graduate Study

↓

~~College Teaching: Chair, Department of Counseling, Adult and Higher Education and Student Affairs~~

↓

~~Trauma-Informed Counseling: Chair, Department of Counseling, Adult and Higher Education and Student Affairs~~

Admission to Graduate Study

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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.

Requirements for Graduate Degrees

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Requirements for the Degrees

Doctor of Education

Doctor of Philosophy

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

University Services

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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

College Section

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~~**College of Education**~~



~~Department of Counseling, Adult and Higher Education and Student Affairs~~



School Section

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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. PRQ: Candidacy for the doctoral degree and consent of chair of doctoral committee.

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~~**Department of Counseling, Adult and Higher Education and Student Affairs (CA—CAHC, CAHE, HESA)**~~



~~The Department of Counseling, Adult and Higher Education and Student Affairs offers graduate courses leading to the degrees Master of Science in Education, Doctor of Education, and Doctor of Philosophy.~~



~~**Master of Science in Education[†]**~~

~~Adult and Higher education and student affairs~~

~~Counseling~~

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Doctor of Education[†]

Adult and Higher Education

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Admission

The faculty in the Department of Counseling, Adult and Higher Education and Student Affairs selects the best-qualified applicants for admission to its programs.

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Master of Science in Education in Adult and Higher Education and Student Affairs

This 36-semester-hour ... teaching, counseling, or evaluating. It prepares professionals in adult education, community education, international and popular education, human resource development, student affairs and higher education, to work in contexts such as adult education organizations, higher education institutions, business and industry, and social agencies concerned with community problem solving. This program is designed to prepare students to assume a variety of administrative positions within postsecondary institutions.

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

Admission

Applicants will be reviewed ... study. Miller Analogies Test scores and GRE scores are not required. The adult and higher education and student affairs admissions committee reserves the right to request an interview with an applicant if additional information is required.

Student at Large, Study Abroad, and Transfer Credit

A maximum of 159 student at large and transfer semester hours in combination may be applied toward the master's degree in adult and higher education and student affairs. See "Requirements for Graduate Degrees" ... toward the master's degree in adult and higher education and student affairs.

Requirements

The M.S.Ed. in adult and higher education and student affairs requires a minimum of 36 semester hours. Students select from one of the following: a specialization in higher education or a specialization in adult education. In consultation with an adviser the student selects a thesis or non-thesis option. Students are required to take 24 semester hours of the common core, 3 semester hours of internship, and 9 semester hours of electives. Focus areas will be developed in consultation with and approved by their adviser.

In no case will a master's degree student be allowed to register for CAHA 598, Issues in Adult and Capstone in Higher Education and Student Affairs, or CAHAHESA 699, Master's Thesis, if they have not completed 27 semester hours of course work in a master's level program approved by the adult and higher education and student affairs adviser.

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Specialization in Adult Education

Students are required ... by adult and higher education.

This specialization ..., or develop another focus area with adviser's approval.

Specialization Core

CAHA 500—The Nature of Adult Education (3)

↓

CAHA 598—Issues in Adult and Higher Education (3)

Research Core

CAHA 710—Evaluating Adult Education Programs (3)

ETR 520—Introduction to Research Methods in Education (3)

Internship Core

CAHA 586—Internship in Adult and Higher Education (3) (This requirement may be waived through current professional experience as approved by program adviser.)

Suggested Focus Areas

Twelve semester hours ... developed in consultation with program adviser.

Teaching and Adult Development

Four of the following:

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

↓

Elective approved by adviser (3)

Community Programming and Development

Four of the following:

↓

CAHE 544—Alternatives in the Counseling and Placement of Adults (3)

Elective approved by adviser (3)

Specialization in Higher Education

Students are required to take 15 ... offered by adult and higher education.

This specialization is designed ... focus area with adviser's approval.

Common Specialization Core (24)

CAHA 598 – Capstone for Issues in Adult and Higher Education (3)

~~HESACAHE~~ CAHE 500 - Foundations of Higher Education (3)

~~HESACAHE~~ CAHE 502 - Equity, Diversity, and Social Justice in Higher Education (3)

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~~HESACAHE~~ CAHE 503 - U.S. College Students (3)
~~HESACAHE~~ CAHE 522 - College Student Development Theory (3)
CAHA ~~HESA~~ 562 - Helping Skills for Student Affairs Professionals (3)
CAHE ~~HESA~~ 572 - Assessment Methods in Higher Education (3)
~~HESA~~ 573 - Applied Assessment Methods in Higher Education (3)

Research Core

~~CAHE 572~~— Assessment Methods in Higher Education (3)
~~ETR 520~~— Introduction to Research Methods in Education (3)

Internship Core (3)

~~HESACAHA~~ CAHA 586 - Internship in Adult and Higher Education ~~and Student Affairs~~ (3)
(This requirement may be waived through current professional experience as approved by program adviser.)

Electives (9)

CAHE 701 ~~HESA 501~~ - Student Affairs Administration and Practice (3)
CAHE ~~HESA~~ 509 - Campus Environments and Student Cultures (3)
CAHE ~~HESA~~ 523 - Advocacy, Outreach, and Interventions in Student Affairs (3)
CAHA ~~HESA~~ 530 - Instructional Theory, Practice and Teaching in Postsecondary Education (3)
CAHA ~~HESA~~ 562 - Helping Skills for Student Affairs Professionals (3)
CAHA ~~HESA~~ 590 - Workshop in Higher Education ~~and Student Affairs~~ (1-3)
CAHE ~~HESA~~ 703 - Postsecondary Access in Higher Education (3)
CAHE ~~HESA~~ 771 - Legal Aspects of Higher Education Administration (3)
Elective approved by adviser (3)

Suggested Focus Areas

One of the following focus areas with ... program adviser.

Student Affairs Administration

Four of the following:
CAHA 562— Helping Skills for Student Affairs Professionals (3)
↓
Elective approved by adviser (3)

Higher Education Leadership

Four of the following:
CAHA 555— Seminar in the Community College (3)
↓
~~CAHE 772~~— Financing Higher Education (3)
Elective approved by adviser (3)

Thesis Option

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Same as the non-thesis option except that instead of taking CAHA 598, ~~Capstone in Adult and Higher Education and Student Affairs~~, for 3 semester hours, students complete 6 semester hours of CAHA HESA 699, Master's Thesis.

Comprehensive Examination

Students in the non-thesis option fulfill the comprehensive examination requirement by successfully completing a comprehensive writing assignment while enrolled in CAHA 598. Students in the thesis option fulfill this requirement in conjunction with the thesis defense.

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Master of Science in Education in Counseling

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Admission

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Applicants to the program in counseling ... All materials must be received by the Graduate School and the ~~Department of Counseling, Adult and Higher Education and Student Affairs~~ by February 1... ..

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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.

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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 and Student Affairs~~ no later than ~~February~~ **March 1**.

Admission

Admission to the doctoral program requires a master's degree either in ~~adult education, and higher education, 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 evidence of an applicant's professional qualifications and potential. Each applicant must submit a resume/CV and written goals statement. ~~Ordinarily,~~ **A**n interview with the ~~adult and higher education admissions~~

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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 credits 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/her~~ **their** 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 ~~15~~ **21** 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)

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

~~HESA CAHA~~ 702 - Philosophy of Postsecondary Education (3)

~~HESA CAHE~~ CAHE - Evaluating Higher Education Programs (3)

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

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

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

~~HESA CAHE~~ 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.

Specialization in College Teaching

~~HESA 504~~ **CAHA 502 - Educating for Equity and Social Justice in Higher Education (3)**

~~HESA CAHA~~ **CAHA702 - Philosophy of Postsecondary Education (3)**

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~~HESA-CAHA~~ CAHA 530 - Instructional Theory, Practice and Teaching in Postsecondary Education (3)
~~HESA-CAHA~~ CAHA 733 - Theory Building for Learning in Postsecondary Education (3)
~~HESA-CAHA~~ CAHA 740 - Pedagogical Innovations and Student Learning (3)
~~HESA-CAHA~~ CAHA 759 - Critical and Feminist Pedagogies in Adult and Higher Education (3)
Elective (3)

Specialization in Community College Leadership

CAHA ~~HESA~~ 555 - Seminar in the Community College (3)
CAHA ~~HESA~~ 575 - Public Policy Studies in Higher Education (3)
CAHE ~~HESA~~ 704 - Strategic Marketing and Enrollment Management (3)
CAHA ~~HESA~~ 740 - Pedagogical Innovations and Student Learning (3)
CAHE ~~HESA~~ 751 - Community College Students (3)
CAHE ~~HESA~~ 771 - Legal Aspects of Higher Education Administration (3)
CAHE ~~HESA~~ 772 - Financing in Higher Education (3)

Specialization in Higher Education Administration

CAHA 502 ~~HESA-504~~ - Educating for Equity and Social Justice in Higher Education (3)
~~HESACAHA~~ CAHA 575 - Public Policy Studies in Higher Education (3)
~~CAHE 503~~ - U.S. College Students
CAHA ~~HESA~~ 702 - Philosophy of Postsecondary Education (3)
CAHE ~~HESA~~ 703 - Postsecondary Access in Higher Education (3)
~~HESACAHE~~ CAHE-771- Legal Aspects of Higher Education Administration (3)
~~HESACAHE~~ CAH-772 - Financing Higher Education (3)
Elective (3)

~~HESACAHA~~ CAHA 799 - Doctoral Research and Dissertation (12)

When students pass the required exams and are eligible for dissertation, they must remain continuously enrolled and take a minimum of 3 semester hours of dissertation hours (~~HESACAHA~~ CAHA 799) per semester (spring, summer, and fall) to continue enrollment in the Ed.D. program.

Examinations

~~Candidacy examination.~~ Students will need to successfully pass their candidacy examination prior to registering for ~~HESACAHA~~ 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 he they 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 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

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requirements of the Graduate School.

~~Specialization in Community College Leadership~~

~~The specialization in Community College Leadership is designed~~

~~↓~~

~~Dissertation~~

~~CAHA 799—Dissertation (12)~~

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

~~Freeman~~

~~Doctor of Philosophy in Counselor Education and Supervision~~

~~↓~~

~~Admission~~

~~↓~~

~~Admission to the doctoral program in ... semester. All materials must be received by the Graduate School and the Department of Counseling, Adult and Higher Education and Student Affairs by February 1~~

~~↓~~

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Certificates of Graduate Study

Adult Education (18)

The certificate of graduate study in adult education is designed for professionals in adult education settings ↓
~~CAHE 572—Assessment Methods in Higher Education (3)~~

Career Development (12)

This certificate is designed to prepare professionals in educational settings, public service agencies, and the ↓
~~CAHC 595—Career Counseling and Development in a Multicultural Society (3)~~

Department of Educational Technology, Research and Assessment

Other Catalog Change Page 104, 2018-19 Graduate Catalog

Certificate of Graduate Study

↓

Distance Education (18)

↓

User Experience (UX) and Learning Analytics (18)

This certificate prepares graduate-level students in educational data mining and user modeling for conducting or evaluating research and programs in areas such as online learning systems, adaptive

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learning environments. Students completing the certificate will gain the necessary skills for conducting research on usability and effectiveness of data displays and communicating about where data come from and how the data are used to promote effective learning.

Required Courses (12):

- ETR 537 - Methods of Learning Analytics (3)
- ETR 556 - User Experience (UX) Research Methods (3)
- ETT 537 - Introduction to Human Computer Interaction Design (3)
- ETT 557 - User Experience (UX) Design (3)

6 ~~credits~~ semester hours from the following (6):

- ETR 560 - Computer Data Analysis (3)
- ETR 722 - Methods of Multivariate Analysis (3)

One of the following:

- ~~ETR 525 - Qualitative Research in Education (3)~~
- ~~ETR 526 - Advanced Technologies in Qualitative Research (3)~~
- ~~ETR 739X - Fieldwork Methods in Educational Research (3)~~
- ETR 590 - Workshop in Research and Assessment (1-3)
- ETR 592 - Special Topics in Research and Assessment (1-3)
- ETR 790 - Workshop in Research and Assessment (1-3)
- ETR 792 - Special Topics in Research and Assessment (1-3)
- ETT 511 - Advanced Instructional Media Design (3)
- ETT 531 - Visual Literacy (3)
- ~~ETT 511 - Advanced Instructional Media Design (3)~~
- ETT 590 - Workshop in Instructional Technology (1-3)
- ETT 592 - Special Topics in Instructional Technology (1-3)
- ETT 790 - Advanced Workshop in Instructional Technology (1-3)
- ETT 792 - Advanced Topics in Instructional Technology (1-3)

Department of Kinesiology and Physical Education

All University Sections

The Graduate School

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Freeman

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Graduate Programs

↓

Department of Kinesiology and Physical Education

↓

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

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Kinesiology and Physical Education
with ~~or without~~ specialization in
Adapted Physical Education
Exercise Physiology/~~Fitness Leadership~~

Directory for Correspondence

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Freeman

Graduate Degree Programs, Specializations, and Departments

↓

Exercise Physiology/~~Fitness Leadership~~: See Kinesiology and Physical Education

Department Section

Pres. Other Catalog Change Page 110, 2018-19 Graduate Catalog
Freeman

Master of Science in Education in Kinesiology and Physical Education

↓

Requirements

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

↓

In each of the specializations, students are required to take 9-15~~2~~ 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.

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Master of Science in Education in Kinesiology and Physical Education

↓

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.

BOT/ Other Catalog Change Page 111, 2018-19 Graduate Catalog
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Doctor of Philosophy in Kinesiology and Physical Education

The Ph.D. program in kinesiology and physical education prepares students for faculty positions that comprise teaching, research, service, and leadership in a specific area of specialization. The doctoral program builds on the practical competencies of the master's program to prepare the student for the integration of theory and skills as the base for original research. Areas of specialization include, but are not limited to, adapted physical education, athletic training, biomechanics, exercise physiology, motor control, sport pedagogy, sport and exercise psychology, and sport management.

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

Admission

Admission to the doctoral program requires a master's degree in one of the specialization areas of kinesiology and physical education, which includes, but is not limited to, adapted physical education, athletic training, exercise physiology, pedagogy, sport and exercise psychology, and sport management. Required application materials include a(n): (1) official report of GRE Scores; (2) official or student copies of transcripts; (3) personal statement regarding the student's academic and career goals; (4) current resume or vita; (5) two letters of recommendation; and (6) writing sample. In addition to the aforementioned application materials, a student must identify a graduate faculty member in the kinesiology and physical education department with whom to work, obtain a letter/memo of support of the faculty member's willingness to serve as the student's doctoral ~~advisor~~ advisor, and participate in a personal interview with the doctoral admissions committee.

Milestones and Examinations

In conjunction with their dissertation ~~advisor~~ advisor, committee members, and doctoral program director, students must successfully complete various milestones and examinations during their time in the program.

Requirements

Program requirements are flexible to best complement the individual student's background and professional goals. ~~The~~ Students ~~have~~ has significant input into the selection of specific courses for their program of study, in consultation with their doctoral ~~advisor~~ advisor and committee. The doctoral degree, which is comprised of four core elements (outlined below), requires a minimum of 60 semester hours beyond the master's degree. No previous course work during ~~the students'~~ the student's master's program will be accepted within their doctoral plan of study. These core elements are as follows.

Kinesiology and Physical Education Core (15)

- KNPE 701 - Pedagogy in Kinesiology and Physical Education (3)
- KNPE 702 - Advanced Pedagogy in Kinesiology and Physical Education (3)
- KNPE 711 - Advanced Seminar in Kinesiology and Physical Education I (3)
- KNPE 712 - Advanced Seminar in Kinesiology and Physical Education II (3)
- KNPE 721 - Scholarship in Kinesiology and Physical Education (3)

Research Core (18)

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ETR 521 - Educational Statistics I (3)

ETR 522 - Educational Statistics II (3)

ETR 525 - Qualitative Research in Education (3)

ETR 720 - Advanced Research Methods in Education (3)

~~Advisor~~ ~~Advisor~~-approved course work in research methods, quantitative analyses, or qualitative research (6)

Specialization Area (15)

~~Advisor~~ ~~Advisor~~-approved specialization course work in areas such as specialization-specific courses (not completed during ~~Master's~~ ~~master's~~ program), quantitative statistics, qualitative research, directed research hours, independent study, seminars (15)

Dissertation Research (12)

KNPE 799 - Doctoral Research and Dissertation (12)

Department of Leadership, Educational Psychology, and Foundations

All University Section

The Graduate School

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Freeman

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Graduate Programs

↓

College of Education

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Department of Leadership, Educational Psychology, and Foundations

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

Educational Administration

Educational Psychology **Learning, Motivation, and Culture**

School Business Management

Department Section

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Freeman

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

Educational ~~a~~Administration

Educational Psychology

Learning, ~~m~~Motivation, and ~~c~~Culture

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School ~~bB~~Business ~~mM~~Management

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Master of Science in Education in ~~Educational Psychology~~ Learning, Motivation, and Culture

The M.S.Ed. program in ~~educational psychology~~ learning, motivation, and culture promotes the successful completion of a ~~master's thesis or~~ capstone project.

↓

Admission

↓

transcripts showing the GPA for the last two years of undergraduate work.

~~—scores on the Miller Analogies Test (MAT) or the verbal and quantitative parts of the General Test of the —GRE.~~

a two-page essay describing their career goals and interests relevant to ~~educational psychology,~~ learning, motivation, and culture; the origins of those interests; and how the ~~educational psychology~~ learning, motivation, and culture program should be able to help them reach those goals.

three letters of recommendation from employers, supervisors, or professors.

Note: the Graduate Record Exam (GRE) is NOT required for this program

While a minimum GPA of 3.00 ... not previously submitted.

University Honors ... resume.

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

Student-at-large and transfer hours in combination may not exceed ~~45~~ 6 semester hours for students pursuing the M.S.Ed. degree in ~~educational psychology~~ learning, motivation, and culture. See “Requirements for Graduate Degrees” for limitation on study-abroad credit.

Advisement

When admitted to the program, the student is assigned an adviser who ~~is a faculty member in the area of interest that the student intends to pursue~~ will assist the student in all aspects of the program. **See program website for upcoming cohorts and course sequences.** ~~A course of study is developed for each student.~~

Requirements

The M.S.Ed. in ~~educational psychology~~ learning, motivation, and culture requires a minimum of ~~33~~ 30 semester hours, ~~including either Option A or Option B.~~ as follows:

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Course work, as aligned with the cohort sequencing, in learning, human development, motivation, family and community, diversity and culture, learning and development theories, and understanding and application of research in all of these areas. (27)

Successful completion of a capstone project (3)

Option A

This option is designed for students who would like to enroll in a doctoral program.

~~EPS 501—Psychological Foundations of Education (3)~~

↓

~~—EPFE 530—Comparative/International Education (3)~~

Courses selected in consultation with the student's major adviser, at least one course in the major (9)

~~EPS 699A—Master's Thesis (6)~~

Option B

Option B is designed for students who are not considering enrolling in a doctoral program.

~~EPS 501—Psychological Foundations of Education (3)~~

↓

~~One of the following (3)~~

~~—EPFE 500—Social Foundations of Education (3)~~

↓

~~—OR EPS 699B—Master's Project (6)~~

Comprehensive Examination

The comprehensive examination is conducted in conjunction with the oral defense of the ~~thesis or~~ capstone project.

Department of Special and Early Education

BOT Other Catalog Change

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Master of Science in Education in Special Education

Specialization in Advanced Special Education Practices

Specialization in Behavior Analysis

Specialization in Learning Behavior Specialist I

Specialization in Orientation and Mobility

Specialization in Vision Rehabilitation Therapy

Specialization in Visual Impairments

↓

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The specialization in Behavior Analysis leads to the Board Certified Behavior Analyst (BCBA) credential with a master's degree. The BCBA specialization can be combined with the LBSI PEL. The specializations in Learning Behavior Specialist I and Visual Impairments are ...additional semester hours.

↓

Retention

↓

Candidates in the LBS I and Visual Impairments ... Candidates in other specializations or who are seeking endorsement also may be required to complete content area tests before enrolling in student teaching or internship courses. Candidates in the BCBA specialization must pass the Board Certified Behavior Analyst Examination after completing all required course work. The graduate advising. ... Standards for Professional Practice for Special Educators.

↓

Specialization in Advanced Special Education Practices

↓

Specialization in Behavior Analysis

This specialization is designed for educators and other professionals who wish to gain expertise in behavior analysis. Candidates who complete this specialization will gain the necessary skills to solve problems and address concerns related to individuals with learning and behavioral challenges in school and community settings in combination with a master's degree. After completing an approved course sequence, candidates are eligible to take the Board Certified Behavior Analyst Examination required for certification as a BCBA.

SESE 554 - Applied Behavior Analysis and Positive Behavior Support in School and Community Settings (3)

SESE 570 - Concepts and Principles in Behavior Analysis (3)

SESE 578 - Issues and Trends in Teaching Students with Emotional and Behavioral Disorders (3)

SESE 603 - Functional Analysis for Special Educators (3)

SESE 606 - Methods for Teaching Students with Emotional/Behavioral Disorders (3)

SESE 686 - Practicum in Behavior Analysis (3)

SESE 709 - Advanced Applied Behavior Analysis and Research-Based Interventions for Individuals with Autism Spectrum Disorder (3)

SESE 710 - Behavioral Applications and Consultation in School and Community Settings (3)

SESE 711 - Ethics and Professional Behavior for Behavioral Consultation in Special Education (3)

SESE 792 - Seminar: Single-Case Research Methodologies for Behavior Analysts (3)

One or more elective (3): SESE 526 - Working with and Supporting Families of Young Children with Disabilities and Special Needs (3), other elective with adviser approval

Specialization in Learning Behavior Specialist I

↓

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School of Interdisciplinary Health Professions

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Grading Policies for Clinical Courses

Students must make satisfactory ... graduate program.

Certificates of Graduate Study

Health Professions Education (18)

This interdisciplinary certificate prepares students for college-level and clinical education in the health professions. Course work supports student understanding of and competencies with communication, research methods, teaching, curriculum development and assessment, and leadership in current academic or health care settings. With satisfactory completion students meet course requirements for knowledge and skills focused on the theory, research, and practice of education as it applies to the health professions. Students can complete the program through online course work and additionally can participate in on-campus offerings as desired. This certificate is open to any NIU graduate student or graduate student-at-large in good academic standing in the university. A student wishing to pursue this certificate should consult with their program ~~advisor~~ advisor or School of Interdisciplinary Health Professions program faculty.

The objectives of the certificate in Health Professions Education will be to support student abilities to:

Demonstrate the interdisciplinary communication skills necessary to function effectively in today's clinical and academic environments,

Apply in-depth knowledge of content areas to quality measurement of health professions education,

Become efficient in discerning, implementing, and evaluating new developments and advances in health professions education,

Develop strategies for a diverse, culturally-aware workforce or learning environment.

Primary Content Area (8-9)

HSCI 530¹ - Working with Diverse Populations in Health and Human Sciences (3)

HSCI 560 - Research Methods in Health and Human Sciences (3)

OR ETR 520 - Introduction to Research Methods in Education (3)

~~HSCI 567 - Internship in Health Sciences (1-3)~~

HSCI 640 - Communication for Health Professionals (3)

~~HSCI 567 - Internship in Health Sciences (1-3)~~

HSCI 710 - Teaching in the Health Professions (1-3)

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Additional Requirements (9-10)

Select at least one course from each of the following three groups or approved course plan with program advisor consent.

Curriculum Development

ETT 510 - Instructional Media and Technology (3)

NURS 622 - Foundations in Nursing Education II (4)

TLCI 510 - ~~Community Influences~~ Critical Perspectives in Curriculum and Instruction (3)

OR ETT 529 - Theories of Instructional Design and Technology (3)

Evaluation and Assessment

ETR 528 - Educational Assessment (3)

OR ETR 536 - Assessment Design (3)

HESA 710 - Evaluating Higher Education Programs (3)

OR ETR 531 - Program Evaluation in Education (3)

~~ETR 528 - Educational Assessment (3)~~

~~OR ETR 536 - Assessment Design (3)~~

Leadership and Management

AHPT 700 - Physical Therapy Administration (3)

COMS 672 - Seminar in Organizational Development and Communication (3)

COMS 680 - Seminar in Conflict Management and Negotiation (3)

COMS 609² - Topics in Communication Theory (3)

PHHE 624 - School Health Programs: Planning, Managing, and Evaluating (3)

PHHE 655 - Human Resource Management in the Health Care Setting (3)

Footnotes

¹ Students with prior credit in the 400-level option for this credit should select an alternative with consultation with program faculty.

² When topic is appropriate.

COLLEGE OF LIBERAL ARTS AND SCIENCES

All University Sections

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Interdisciplinary Study of Language and Literacy 329
Latino and Latin American Studies 327

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Graduate Concentrations

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Biochemistry and Biophysics
~~Latino and Latin American Studies~~

Certificates of Graduate Study

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International Business
Latino and Latin American Studies
Law and Women's and Gender Studies

↓

Directory for Correspondence

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Graduate Concentrations and Certificates of Graduate Study

↓

Latino and Latin American Studies: Director, Center for Latino and Latin American Studies

↓

Interdisciplinary Academic Centers and Courses

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Center for Latino and Latin American Studies

↓

~~Concentration in Latin American Studies~~
~~Students pursuing ... transcript.~~

~~Since the Center for Latino and Latin American Studies ... departments.~~

~~Students interested ... consecutive years.~~

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Requirements (12)

~~HIST 582 – Mexico Since 1810 (3),~~

↓

~~POLS 673K – Foreign Area Politics: Latin America (3)~~

Interdisciplinary Academic Centers and Courses

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↓

Center for Latino and Center for Latino and Latin American Studies

↓

Certificate of Graduate Study: Latin American Studies (12)

Coordinator: Christina D. Abreu (Center for Latino and Latin American Studies)

This graduate certificate is designed to enhance students' knowledge of Latin American history, literature, and culture. The graduate certificate is recommended for students who want to demonstrate, whether to a scholarly or professional audience, an advanced, interdisciplinary understanding of Latin America. The interdisciplinary approach exposes them to diverse texts, different ways of analyzing evidence, and comparative perspectives.

Since the Center for Latino and Latin American Studies is not a degree-offering unit, all graduate degrees are obtained through the student's major department, whose specific requirements must be met. The certificate is available to students in good standing in any graduate program in the university. Students-at-large in good standing may also pursue the certificate. Faculty who regularly teach courses which contribute to the certificate come from a variety of departments.

Students who wish to pursue this certificate should consult early in their graduate studies with both their major department faculty adviser and the director of the Center for Latino and Latin American Studies. Students may earn transcript credit for the certificate by completing 12 hours of course work. Students must take courses from at least two disciplines to earn the graduate certificate in Latin American Studies. In addition to the courses listed, students can enroll in any graduate-level special topics course or directed study focused on Latin America with the approval of the director of the Center for Latino and Latin American Studies.

Requirements (12 credits)

One of the following (3)

ANTH 504 - Peoples and Cultures of the Caribbean (3)

FLSP 556 - Colonial Latin American Literature (3)

FLSP 562 - Seminar on the Cultures of Latin America (3)

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HIST 586 - Inequality in Latin America (3)
HIST 620 - Reading Seminar in Latin American History (3)
HIST 720 - Research Seminar in Latin American History (3)

Three of the following (9)

ANTH 504 - Peoples and Cultures of the Caribbean (3)
ANTH 511 - Settlement of the Americas (3)
ANTH 514 - Archaeology of Mesoamerica (3)
ANTH 515 - Archaeology of the American Southwest (3)
ANTH 516 - Human Migration (3)
ANTH 517 - Archaeology of South America (3)
ANTH 626 - Latin American Peasants and Social Change (3)
ARTH 580 - Studies in African, Oceanian, Native American, Pre-Columbian, and Latin-American Art (3)
ARTH 658 - Topics in Art History: African, Oceanian, Native American, Pre-Columbian, and Latin-American Art (3)
ENGL 671 - Postcolonial Literatures in English (3)
ENGL 693C - Ethnic American Literature: Latina/Latino American Literature (3)
FLPO 561 - Brazilian Civilization (3)
FLSP 539 - Women Authors in Hispanic Literature (3)
FLSP 540 - Spanish American Poetry and Theater (3)
FLSP 541 - Spanish American Novel (3)
FLSP 545 - Latin American Women Writers (3)
FLSP 552 - Literature of the Caribbean (3)
FLSP 554 - Mexican Literature, Culture, and Film (3)
FLSP 555 - Spanish-American Short Story (3)
FLSP 556 - Colonial Latin American Literature (3)
FLSP 557 - 19th Century Spanish American Literature (3)
FLSP 558 - Spanish American Modernismo and Vanguardias: 1880-1945 (3)
FLSP 559 - Spanish American Historical Novels (3)
FLSP 560 - Contemporary Spanish American Literature (3)
FLSP 562 - Seminar on the Cultures of Latin America (3)
FLSP 587 - Hispanic Dialectology (3)
FLSP 591 - History of the Spanish Language (3)
HIST 541 - The African Diaspora (3)
HIST 559 - The Atlantic World, 1492-1860s (3)
HIST 581 - Indigenous Mexico (3)
HIST 582¹ - Mexico since 1810 (3)
HIST 583 - Africans in Colonial Latin America (3)
HIST 584 - History of Brazil (3)
HIST 585 - Modern Latin American Revolutions (3)
HIST 586 - Inequality in Latin America (3)

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HIST 587 - The Latin American City (3)
HIST 620 - Reading Seminar in Latin American History (3)
HIST 720 - Research Seminar in Latin American History (3)
MUHL 626 - Survey of World Music (3)
MUSP 641 - Study of Caribbean Instruments (1)
MUSP 644 - Study of Afro-Caribbean Percussion Instruments (1)
POLS 673K - Foreign Area Politics: Latin America (3)

College Section

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Lesbian, Gay, Bisexual, and Transgender, and Queer Studies (12)

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

↓

Department of Economics

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IBHE

Joint M.S. in ~~Applied Probability and~~ Statistics

Students in good standing in the Ph.D. in Economics program may request approval by the ~~Division~~ **Department** of Statistics to also earn an M.S. in ~~Applied Probability~~ Statistics while they work toward their Ph.D. in Economics. These students must fulfill the requirements for the Econometrics field above in addition to the course work listed below and any thesis or comprehensive exam requirement within the ~~Division~~ **Department** of Statistics.

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Department of Mathematical Sciences/Division of Statistics

All University Section

Inter-College Interdisciplinary Certificates

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Homeland Security

↓

Environmental and Hazards Risk Assessment Track (15-18)

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

Department/Division Section

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IBHE

Course revisions

Graduate Catalog

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**.

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**.

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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.

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.

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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.

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~~Master of Science in Applied Probability and Statistics~~

~~At the time of admission ... student’s program.~~

↓

~~Division of Statistics (3)~~

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

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IBHE

~~Applied Statistics (12)~~

~~This certificate is designed for ... statistics with approval of the department.~~

~~Four of the following (12)~~

↓

~~STAT 677 Sampling Techniques (3)~~

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

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~~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

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Statistics.

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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

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 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 semester hours completed in STAT courses numbered 600 and above. At most, six semester hours can be courses offered outside of the

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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 ~~Master's~~ master's thesis or pass a comprehensive examination based upon ~~his or her~~ student's plan of study. Usually, a student pursuing full-time graduate study will be required to write a ~~Master's~~ master's 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)

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 with an emphasis in Statistics

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

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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.