

**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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

**SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog**

p. 1 of 86

**ALL UNIVERSITY SECTION**

**Interdisciplinary Academic Centers and Courses**

New Courses Graduate Catalog

INTL 501. STUDY ABROAD PROGRAMS (1-12). A variable credit course structured around a theme within a discipline. Approval of topic and enrollment requires departmental approval when there is no NIU equivalent course available. May be repeated to a maximum of 12 semester hours.

INTL 502. STUDY ABROAD PROGRAMS (1-12). A variable credit course structured around a theme within a discipline. Approval of topic and enrollment requires departmental approval when there is no NIU equivalent course available. May be repeated to a maximum of 12 semester hours.

**COLLEGE OF BUSINESS**

**All University Section**

**Admission to Graduate Study**

Other catalog change Page 19, 2018-19 Graduate Catalog

**Graduate Management Admission Test (GMAT)**

Applicants for graduate study in the College ... on the GMAT may be waived if:

an applicant has already earned a graduate degree from an accredited institution;

an applicant to the Global M.B.A. format or to the M.S. in Digital Marketing program who is an NIU University Honors graduate with a B.S. or B.A. in a STEM-related field;

an applicant to the M.S.T. program presents satisfactory scores on the LSAT or provides evidence of passing all parts of the C.P.A. examination;

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Other catalog change Page 56, 2018-19 Graduate Catalog

**Master of Business Administration**

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**Admission**

Admission to the M.B.A. program ... M.B.A. Programs at (866) 648-6221 for details.

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 2 of 86

NIU University Honors students who graduate with a B.A. or B.S. in a STEM-related field are guaranteed admission into the Global M.B.A. format as space permits. These students are exempt from the GMAT requirement.

**Credit Requirements**

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**Department of Accountancy**

New courses

Page, 65, 2018-19 Graduate Catalog

CIP: 52.03

676. DATA ANALYTICS AND DECISION MAKING IN TAXATION (3). Examination of the use of data analysis as both an investigative tool and a graphic medium for communicating business information. Challenges students to build their data and analytic competency to become less reactive and more proactive so they can embrace change, operate with ambiguity, and pursue creative techniques to communicate complex information within and beyond the tax department. Focuses on ensuring the quality of data and its impact on strategic decision. PRQ: A grade of C or better in ACCY 644 or consent of the department.

677. ADVANCED DATA ANALYTICS AND DECISION MAKING IN TAXATION (3). Advanced examination of the use of technology to identify and solve tax problems for the firm. Relies heavily on the use of communication skills and decision making to propose unique and innovative solutions that require the manipulation of large amounts of data. Focuses on effective communication of actionable tax and business strategies for organizations. PRQ: A grade of C or better in ACCY 676 or consent of the department.

Course revisions

Page 63, 2018-19 Graduate Catalog

644. ADVANCED TAXATION (3). Study of the federal income taxation of business entities. Emphasis on corporations, partnerships and S-corporations and includes an introduction to tax research property transactions. A student may receive credit for only one of the following: ACCY 450, ACCY 456, ACCY 550, ACCY 556, ACCY 644, or ACCY 650. Not available for credit in the M.A.S. in taxation track. Not available for Phase II credit in the MAS program. A student must earn a grade of C or better in an income tax concepts course intermediate financial reporting II course prior to enrollment.

645. PROFESSIONAL TAX RESEARCH (3). Study of the legal ... various tax authorities. A student must earn a grade of C or better in an income tax concepts course prior to enrollment. CRQ: A grade of C or better in ACCY 644 or consent of the department.

646. TAX PRACTICE AND PROCEDURE (3). Study of the structure, ... representation of taxpayers. A student must earn a grade of C or better in an income tax concepts course prior to enrollment. PRQ: A

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 3 of 86

grade of C or better in ACCY 644 or consent of the department.

647. CORPORATE TAXATION (3). Study of federal ... following: ACCY 456, ACCY 556, ACCY 644, ACCY 647, ACCY 650. ~~A student must earn a grade of C or better in an income tax concepts course prior to enrollment.~~ PRQ: A grade of C or better in ACCY 644 or consent of the department.

649. PARTNERSHIP TAXATION ~~TAXATION OF FLOW-THROUGH ENTITIES~~ (3). Study of the federal income taxation of partnerships and S-corporations, with emphasis on the tax laws related to the formations, operations, allocations, distributions, liquidations, and sales/exchanges of partnership and S-corporation interests. ~~A student must earn a grade of C or better in an income tax concepts course prior to enrollment.~~ PRQ: A grade of C or better in ACCY 644 or consent of the department.

651. FEDERAL ESTATE AND GIFT TAXATION (3). Study of the ... to succeeding generations. ~~A student must earn a grade of C or better in an income tax concepts course prior to enrollment.~~ PRQ: A grade of C or better in ACCY 644 or consent of the department.

652. TAXATION OF ESTATES AND TRUSTS (3). Study of federal ... income, estate, and gift taxes. ~~A student must earn a grade of C or better in an income tax concepts course prior to enrollment.~~ PRQ: A grade of C or better in ACCY 644 or consent of the department.

653. ACCOUNTING FOR INCOME TAXES (3). Study of the ... uncertainties is also provided. ~~A student must earn a grade of C or better in an income tax concepts course prior to enrollment.~~ PRQ: A grade of C or better in ACCY 644 or consent of the department.

654. SPECIAL TAX TOPICS (1-3). Study of selected ... enrollments during a single semester. ~~A student must earn a grade of C or better in an income tax concepts course prior to enrollment.~~ PRQ: A grade of C or better in ACCY 644 or consent of the department.

656. TAX CONCEPTS AND PROPERTY TRANSACTIONS (3). Study of the ... involuntary conversions. ~~A student must earn a grade of C or better in an income tax concepts course prior to enrollment.~~ PRQ: A grade of C or better in ACCY 644 or consent of the department.

657. TAXATION OF COMPENSATION AND BENEFITS (3). Study of tax ... and retirement plan distributions. ~~A student must earn a grade of C or better in an income tax concepts course prior to enrollment.~~ PRQ: A grade of C or better in ACCY 644 or consent of the department.

658. STATE AND LOCAL TAXATION (3). Study of the nature ... issues, with current trends and law changes. ~~A student must earn a grade of C or better in an income tax concepts course prior to enrollment.~~ PRQ: A grade of C or better in ACCY 644 or consent of the department.

659. TAX ACCOUNTING METHODS AND PERIODS (3). Study of timing ... tax reform alternatives. ~~A student must earn a grade of C or better in an income tax concepts course prior to enrollment.~~ PRQ: A

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 4 of 86

grade of C or better in ACCY 644 or consent of the department.

Other catalog change

Pages 59-60, 2018-19 Graduate Catalog

**Master of Accounting Science**

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**Phase One**

The College of Business has Phase One requirements that must be completed by each student. See Phase One Requirements listed under "Graduate Study in Business."<sup>1</sup> College of Business Phase One courses must be completed before enrolling in Phase Two M.A.S. requirements. No Phase One course may be used to satisfy a Phase Two elective or requirement. The Director of Graduate Studies in Accountancy will determine which College of Business Phase One graduate courses will be included in each student's program of courses based upon successful completion of undergraduate course work.

~~The Phase One foundation courses~~ The M.A.S. has Phase One requirements that 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. A student with a baccalaureate degree in accountancy and acceptable undergraduate grades may have already satisfied M.A.S. Phase One requirements. Courses completed for the Foundation of Accountancy certificate of graduate study meet most of the M.A.S. Phase One accountancy requirements. Earning a Foundation of Accountancy certificate of graduate study does not waive the admission criteria. The M.A.S. program director ~~Director of Graduate Studies in Accountancy~~ will determine which M.A.S. Phase One graduate courses will be included in each student's program of courses. ~~Phase One courses must be completed before enrolling in Phase Two M.A.S. requirements. Phase One courses may not be used as Phase Two electives or requirements. A student must have a C or better in each M.A.S. Phase One accountancy course. A student enrolled in M.A.S. Phase One courses may take Phase Two courses at the discretion of the Director of Graduate Studies in Accountancy provided the student has successfully completed all prerequisites for the Phase Two courses and has maintained a 3.00 GPA in M.A.S. Phase One courses. None of the required M.A.S. Phase One courses may be counted as accountancy electives in Phase Two. It is recommended that calculus be taken in addition to finite math (equivalent to MATH 210). The writing of a thesis is optional.~~

**Required Accountancy Courses (M.A.S. Phase One Course Work):**

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ACCY 560 - Assurance Services (3)

~~The graduate Phase One requirements ... Accountancy certificate does not waive the admission criteria.~~

~~A student must have a ... order to register for any Phase Two course.~~

~~None of the required Phase One accountancy courses may be counted as accountancy electives in Phase Two.~~

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 5 of 86

The writing of a thesis is optional. It is recommended that calculus be taken in addition to finite math (equivalent to MATH 210).

**Phase Two**

Students are required to complete a minimum of 30 semester hours of course work beyond Phase One and the baccalaureate degree. The total Phase Two credits accepted in transfer from other institutions may not exceed 9 semester hours. ACCY courses numbered 600 or above and completed with a C or better in either the Certificate of Advanced Study in Accountancy or the Certificate of Advanced Study in Accounting Analytics meet Phase Two requirements; however, Students must maintain a minimum average GPA of 3.00 in all graduate course work completed in Phase Two.

Other catalog change

Page 60, 2018-19 Graduate Program

**Professional Area of Study**

~~The Professional area of study ... hours of course work.~~

~~Fifteen (15) semester hours in accounting courses~~

~~ACCY 633—Advanced Financial Reporting (3)~~

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~~An additional fifteen (15) semester hours of elective course work approved by the department~~

Other catalog change

Pages 60-61, 2018-19 Graduate Catalog

**Master of Science in Taxation**

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**Admission**

Admission to the Master of Science in Taxation program is competitive. At a minimum, applicants must meet the admission requirements of the NIU Graduate School. An applicant is also required to have a baccalaureate degree or a master's degree from an accredited institution with at least 15 semester hours in accounting (including a course equivalent to ACCY 450) (including an income tax concepts course) or department approval (prior work experience will be given consideration); or a law degree (J.D.) from an institution accredited by the American Bar Association.

~~If applicants do not have a ... scale) at the baccalaureate institution. These applicants must also present satisfactory scores on the GMAT or LSAT unless they have passed all parts of the CPA examination (applicants must attach appropriate documentation to their application materials).~~

**Transfer Credit**

The total semester hours accepted in transfer from accredited institutions may not exceed 9 semester hours.

**Requirements**

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 6 of 86

ACCY 644 - Advanced Taxation (3) (students who test out of ACCY 644 may substitute with an approved ACCY elective)

ACCY 645 - Professional Tax Research (3)

ACCY 647 - Corporate Taxation (3)

ACCY 649 - ~~Partnership Taxation~~ Taxation of Flow-Through Entities (3)

ACCY 651 - ~~Federal Estate and Gift Taxation~~ (3)

ACCY 656 - Tax Concepts and Property Transactions (3)

ACCY 676 - Data Analytics and Decision Making in Taxation (3)

Course work from the following ~~(15)~~ (12)

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ACCY 648 - Advanced Corporate Taxation (3)

ACCY 651 - Federal Estate and Gift Taxation (3)

ACCY 652 - Taxation of Estates and Trusts (3)

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ACCY 661 - Advanced State and Local Taxation (3)

ACCY 673 - ~~Internship in Accountancy~~ (3)

ACCY 677 - Advanced Data Analytics and Decision Making in Taxation (3)

Other catalog change

Page 61, 2018-19 Graduate Catalog

**Master of Accountancy**

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The MAC program is a part-time cohort program with students admitted only in the fall semester.

Guaranteed admission into the program is available for University Honors students who have successfully completed a non-accountancy undergraduate degree from NIU, subject to capacity.

**Master of Accountancy Learning Goals and Objectives**

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Other catalog change

Page 62, 2018-19 Graduate Catalog

**Foundation of Accountancy (15)**

The **Foundation of Accountancy** certificate of graduate study in accountancy is designed to provide working professionals and non-accountancy graduate students with a set of courses focused on the foundational areas in the accountancy discipline. A certificate in **The Foundation of Accountancy certificate** will enhance a student's understanding of the role of accounting in business and other organizations. The courses partially fulfill the educational requirements to sit for the CPA examination and count towards completion of the **M.A.S.** Phase One accountancy courses for the Master of Accounting Science (see Master of Accounting Science admission requirements) and Master of Accountancy (see **Master of Accountancy admission requirements**) programs.

~~The certification program is a part-time cohort program with students admitted only in the fall semester. A~~

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 7 of 86

~~minimum of three terms (including summer school) is required to complete the certificate. The admission criteria follow:~~

~~↓~~

~~Students interested in the certificate ... certificate coordinator.~~

~~To successfully complete the ... six calendar years of starting.~~

**Required courses**

ACCY 510 - Accounting Information Systems (3)

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**Department of Finance**

Course revisions

Page 66, 2018-19 Graduate Catalog

560. FINANCIAL MARKETS AND INVESTMENTS (3). ... PRQ: FINA 607 ~~FINA 500 and FINA 505~~, or consent of department.

575. FINANCIAL DATA ANALYSIS (3). Uses and limitations of financial data bases ~~including CRSP, COMPUSTAT, DISCLOSURE, MorningStar, and various resources available through the Internet and the World Wide Web~~. Application of contemporary statistical methodology in analyzing this data for decision making purposes. PRQ: Consent of department.

**Department of Marketing**

New course

Page 71, 2018-19 Graduate Catalog

CIP: 52.14

515. MARKETING METRICS AND STATISTICAL ANALYSIS TOOLS (2). Introduction to key marketing metrics and statistical analysis tools utilized in the development and implementation of marketing strategies. Provides ~~students with~~ a working knowledge of a wide variety of metrics utilized across all facets of marketing including finance/investment analysis, marketing planning, customer analysis, competitor analysis, etc. Basic marketing statistical analysis tools are introduced and applied to address marketing challenges in such areas as customer acquisition and retention, customer lifetime value, digital marketing communication, costs per conversion, and product/pricing assessment. Extensive use of real-life case studies and hands-on examples.

Course revision

Page 71, 2018-19 Graduate Catalog

603. MARKETING RESEARCH AND ANALYSIS (3). ... PRQ: MKTG 505 and ~~OMIS 524~~ MKTG 515, or consent of department.

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 8 of 86

Course revisions Page 71, 2018-19 Graduate Catalog

626. BRAND MANAGEMENT STRATEGY (3).

684. CAPSTONE APPLICATIONS APPLICATION IN DIGITAL MARKETING (3).

Other catalog change Page 70, 2018-19 Graduate Catalog

**Master of Science in Digital Marketing**

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**Degree Requirements (30-39 37)**

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**Phase One (8 6):**

MKTG 505 - Graduate Survey of Marketing (2)

MKTG 515 - Marketing Metrics and Statistical Analysis Tools (2)

OMIS 507 - Business Information Systems (2)

~~OMIS 524 - Business Statistics (2)~~

↓

~~OMIS 505 - Principles of Operations Management (2)~~

**Phase Two (30-31):**

Other catalog change

Pages 70-71, 2018-19 Graduate Catalog

**Master of Science in Digital Marketing**

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**For International applicants without a baccalaureate or higher degree from an accredited U.S. college or university:**

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- Positive recommendations, preferably from an academic source.

**For NIU University Honors/STEM baccalaureate graduates:**

NIU University Honors students who graduate with a B.A. or B.S. in a STEM-related field are guaranteed admission into the Master of Science in Digital Marketing program as space permits. These students are exempt from the GMAT requirement.

**Degree Requirements (30-39)**

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**Phase Two (30-31):**

**Marketing Strategy Foundation (15)**

**Required Courses (9):**

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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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 9 of 86

Two of the following (6):

- MKTG 626 - Brand Management Strategy (3)
- MKTG 630 - Services Marketing (3)
- MKTG 640 - Digital Selling Strategy (3)
- MKTG 650 - Personal Selling for Managers (3)
- MKTG 655 - Promotional Strategy (3)
- MKTG 656 - Global Marketing Strategy (3)
- MKTG 660 - Marketing Seminar (3)
- MKTG 664 - New Product and Service Innovation (3)

↓

**Capstone (3)**

- MKTG 684 - Capstone Applications Application in Digital Marketing (3)
- OR MKTG 686 - Capstone Digital Marketing Project (3)

**Department of Operations Management and Information Systems**

New courses

Pages 75-77, 2018-19 Graduate Catalog

CIP: 11.01

**Course List (MSDA)**

**M.S. in Data Analytics (MSDA)**

MSDA 628X. SUPPLY CHAIN BUSINESS ANALYTICS (3). *Crosslisted as OMIS 628.* Development and application of optimization methods to analyze supply chain issues. Covers linear programming, network optimization, integer programming, and nonlinear programming with an emphasis on model formulation, solution techniques, and interpretation of results.

MSDA 645X. APPLIED STATISTICS FOR BUSINESS ANALYTICS USING SAS (3). *Crosslisted as OMIS 645.* Comprehensive study of statistical methods in business analytics using SAS. Emphasis on the appropriate data analyses and interpretation of the results to assist business leaders in decision making.

MSDA 649X. BUSINESS COMPUTING ENVIRONMENT (3). *Crosslisted as OMIS 649.* Introduces students to the fundamentals of data management and analysis using SAS and R. Emphasis will be placed on the management of large distributed data sets and data manipulation, including reading, processing, recoding, and reformatting of data. Topics of this course include: advanced programming, using SQL with SAS and R, and optimizing SAS and R programs.

MSDA 652X. BUSINESS APPLICATIONS OF DATABASE MANAGEMENT SYSTEMS (3). *Crosslisted as OMIS 652.* Critical examination of the design, implementation, and management of database systems. Topics include the relational database model, entity-relationship modeling, normalization, the logical implementation of databases, transaction management, distributed databases,

**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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

**SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog**

p. 10 of 86

object-oriented databases, client/server systems, data warehousing, database administration, and the use of databases in Website design. Laboratory experience with current database software. A student must earn a grade of C or better in an information systems concepts course prior to enrollment.

MSDA 661X. BUSINESS INTELLIGENCE APPLICATIONS AND TOOLS (3). *Crosslisted as OMIS 661*. Provides a foundation in the area of business intelligence (BI). Introduction to various BI technologies such as Microsoft SQL Server Management Studio, Analysis Services, Reporting Services, and/or SAP Business Objects to analyze enterprise data. Use of software tools to build an end-to-end BI solution. PRQ: MSDA 652X or consent of department.

MSDA 665X. BIG DATA ANALYTICS FOR BUSINESS (3). *Crosslisted as OMIS 665*. In-depth study of the concepts, methods, and tools for Data Science and Big Data Analytics with the focus on business scenarios. Topics include the Data Analytics Lifecycle, Basic Data Analytics Methods using the open-source RStudio, Advanced Analytics Theories and Methods including Clustering, Association Rules, Linear and Logistic Regression, Classification and Time Series Analysis, and Advanced Analytics Technology and Tools including the open-source software MapReduce and Hadoop. PRQ: MSDA 652X or Consent of department.

MSDA 673X. BUSINESS DATA VISUALIZATION (3). *Crosslisted as OMIS 673*. Visualization design and evaluation principles. Creating visualizations that effectively communicate the meaning behind data to people through visual perception. Comprehensive understanding of data visualization and the abilities to apply techniques for visualizing multivariate, text-based, temporal, geospatial, hierarchical, and network/graph-based data. Required use of SAS and R software. Application of related concepts and techniques in case studies to lead data-driven decisions in the real business world. PRQ: Consent of department.

MSDA 681X. ADVANCED PREDICTIVE DATA ANALYTICS FOR BUSINESS (3). *Crosslisted as OMIS 681*. Comprehensive study of advanced predictive modeling methods and tools used in business to predict future events or to discover meaningful patterns. Emphasis on formulating predictive analytics questions, determining the most appropriate predictive analytics methods and tools, and interpreting results and presenting data-driven solutions.

MSDA 683X BUSINESS APPLICATIONS OF TEXT MINING (3). *Crosslisted as OMIS 683*. Introduction to the power of large amounts of text data and the computational methods to find patterns in such large texts using R. Focus will be geared more towards the application of various text mining techniques to business problems, rather than on the intricacies of different algorithms.

MSDA 690X. INFORMATION TECHNOLOGY PROJECT MANAGEMENT (3). *Crosslisted as OMIS 690*. Application and integration of the project management body of knowledge areas to managing information technology projects. Focus on project management tools and techniques for defining and managing the project goal, scope, schedule, and budget. Other topics include quality management, risk management, and knowledge management as they relate to information technology projects. A student

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 11 of 86

must earn a grade of C or better in an information systems concepts course prior to enrollment.

New course

Page 76, 2018-19 Graduate Catalog

CIP: 52.13

663. ADVANCED BUSINESS APPLICATION DEVELOPMENT AND ANALYTICS USING SAP (3). SAP is the global market leader in ERP software. Covers advanced topics in SAP ERP. Topics include customization of SAP ERP using ABAP and the use of SAP tools to carry out the data analytics lifecycle. PRQ: OMIS 643.

Course revisions

Pages 75-77, 2018-19 Graduate Catalog

OMIS 628. SUPPLY CHAIN BUSINESS ANALYTICS (3). **Crosslisted as MSDA 628X.** ... ..

OMIS 645. APPLIED STATISTICS FOR BUSINESS ANALYTICS USING SAS (3). **Crosslisted as MSDA 645X.** ... ..

OMIS 649. BUSINESS COMPUTING ENVIRONMENT (3). **Crosslisted as MSDA 649X.** ... ..

OMIS 652. BUSINESS APPLICATIONS OF DATABASE MANAGEMENT SYSTEMS (3). **Crosslisted as MSDA 652X.** ... ..

OMIS 661. BUSINESS INTELLIGENCE APPLICATIONS AND TOOLS (3). **Crosslisted as OMIS MSDA 661X.** ... ..

OMIS 665. BIG DATA ANALYTICS FOR BUSINESS (3). **Crosslisted as MSDA 665X.** ... ..

OMIS 673. BUSINESS DATA VISUALIZATION (3). **Crosslisted as MSDA 673X.** ... ..

OMIS 681. ADVANCED PREDICTIVE DATA ANALYTICS FOR BUSINESS (3). **Crosslisted as MSDA 681X.** ... ..

OMIS 683. BUSINESS APPLICATIONS OF TEXT MINING (3). **Crosslisted as MSDA 683X.** ... ..

OMIS 690. INFORMATION TECHNOLOGY PROJECT MANAGEMENT (3). **Crosslisted as MSDA 690X.** ... ..

Course revisions

Page 75, 2018-19 Graduate Catalog

640. MANAGEMENT OF INFORMATION SYSTEMS TECHNOLOGY (3). ... .. ~~PRQ: All Phase One courses, or consent of department.~~

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 12 of 86

643. ENTERPRISE PROCESS IMPROVEMENT (3). . . . . ~~PRQ: All Phase One courses, or consent of department.~~

665. BIG DATA ANALYTICS FOR BUSINESS (3). . . . . PRQ: ~~OMIS 652~~ **OMIS 645** or consent of department.

Other catalog change

Page 73, 2018-19 Graduate Catalog

**Master of Science in Management Information Systems**

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Each MIS student will not be allowed to take more than 12 credit hours per semester.

**NIU University Honors students who graduate with a B.A. or B.S. are guaranteed admission into the Master of Science in Management Information Systems (MIS) program as space permits.**

**Master of Science in Management Information Systems Learning Goals and Objectives**

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Other catalog change

Page 74, 2018-19 Graduate Catalog

**Master of Science in Data Analytics**

↓

**For International applicants without a baccalaureate or higher degree from a U.S. college or university, GRE or GMAT is required for admission:**

- Strong record of academic potential demonstrated by GMAT or GRE score.
- Official IELTS (minimum 6.5 overall) or TOEFL (minimum 80) score received directly from the testing agency.

**For NIU University Honors graduates:**

**NIU University Honors students who graduate with a B.A. or B.S. are guaranteed admission into the Master of Science in Data Analytics (MSDA) program as space permits.**

Other catalog change

Page 74, 2018-19 Graduate Catalog

**Master of Science in Data Analytics**

↓

**Phase Two (30)**

**Business & Communication (9)**

~~OMIS 628~~ **MSDA 628X** - Supply Chain Business Analytics (3)

~~OMIS 673~~ **MSDA 673X** - Business Data Visualization (3)

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 13 of 86

~~OMIS 690~~ **MSDA 690X** - Information Technology Project Management (3)

**Statistics (3)**

~~OMIS 645~~ **MSDA 645X** - Applied Statistics for Business Analytics Using SAS (3)

**Programming (3)**

~~OMIS 649~~ **MSDA 649X** - Business Computing Environment (3)

**Big Data (15)**

~~OMIS 652~~ **MSDA 652X** - Business Applications of Database Management Systems (3)

~~OMIS 661~~ **MSDA 661X** - Business Intelligence Applications and Tools (3)

~~OMIS 665~~ **MSDA 665X** - Big Data Analytics for Business (3)

~~OMIS 681~~ **MSDA 681X** - Advanced Predictive Data Analytics for Business (3)

~~OMIS 683~~ **MSDA 683X** - Business Applications of Text Mining (3)

**Total hours (30-36)**

Other catalog change

Pages 74-75, 2018-19 Graduate Catalog

**Specialization in SAP and Business Enterprise Computing (9)**

↓

**Specialization in SAP and Business Enterprise Computing consists of the following courses:**

~~OMIS 643~~—Enterprise Process Improvement (3)

OMIS 653 - Enterprise Systems Configuration with SAP (3)

OMIS 661 - Business Intelligence Applications and Tools (3)

**OMIS 663 - Advanced Business Application Development and Analytics Using SAP (3)**

Students who choose this specialization will use ~~OMIS 653, OMIS 661,~~ and two of the above three courses and one other elective courses course to serve the Phase Two Elective requirement.

**Certificates of Graduate Study**

**Enterprise Management Using SAP Software (12)**

↓

**Required Courses:**

~~OMIS 640~~—Management of Information Systems Technology (3)

OMIS 643 - Enterprise Process Improvement (3)

OMIS 653 - Enterprise Systems Configuration with SAP (3)

OMIS 661 - Business Intelligence Applications and Tools (3)

**OMIS 663 - Advanced Business Application Development and Analytics Using SAP (3)**

**Data Analytics Using SAS Software—SAS Joint Certificate program (12)**

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 14 of 86

↓

**Required Courses**

OMIS 645 - Applied Statistics for Business Analytics Using SAS (3)

OMIS 661 - Business Intelligence Applications and Tools (3)

OMIS 665 - Big Data Analytics for Business (3)

OMIS 670 - Social Media Analytics for Business (3)

OMIS 694 - Advanced Topics in Information Systems (3) (For this certificate students must take the topic: SAS Data Analytics)

Other catalog change

Pages 74-75, 2018-19 Graduate Catalog

**Data Science for Business (12)**

↓

**Required Courses:**

OMIS 645 MSDA 645X - Applied Business Analytics Using SAS (3)

OMIS 649 MSDA 649X - Business Computing Environments (3)

OMIS 681 MSDA 681X - Advanced Predictive Data Analytics for Business (3)

OMIS 683 MSDA 683X - Business Applications of Text Mining (3)

**COLLEGE OF EDUCATION**

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

**All University Section**

**A Guide to Reading This Catalog**

~~Other Catalog Change Page 5, 2018-19 Graduate Catalog~~

~~Course Designators~~

↓

~~CAHA - Adult and Higher Education~~

~~CAHC - Counseling~~

↓

~~HDFS - Human Development and Family Sciences~~

~~HESA - Higher Education and Student Affairs~~

~~HIIST - History~~

↓

**Department Section**

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 15 of 86

Course Deletions

Page 86-88, 2018-19 Graduate Catalog

**General (CAHE)**

- 702. ADVANCED COLLEGE STUDENT DEVELOPMENT THEORY (3).
- 710. STRATEGIC DECISION MAKING AND ORGANIZATIONAL CHANGE IN HIGHER EDUCATION (3).

**Adult and Higher Education (CAHA)**

- 500. THE NATURE OF ADULT EDUCATION (3).
- 501. ADULT LEARNING: MATURITY THROUGH OLD AGE (3).
- 545. PLANNING AND PROMOTING NONCREDIT ADULT EDUCATION (1-3).
- 550X. TEACHING ORAL SKILLS TO ADULT ENGLISH LANGUAGE LEARNERS: METHODS AND MATERIALS (3).
- 551X. TEACHING LITERACY SKILLS TO ADULT ENGLISH LANGUAGE LEARNERS: METHODS AND MATERIALS (3).
- 552X. CURRICULUM DEVELOPMENT FOR ADULT ENGLISH LANGUAGE LEARNERS (3).
- 553X. CROSSCULTURAL ISSUES IN THE ADULT ESL CLASSROOM (3).
- 560. NONTRADITIONAL ADULT HIGHER EDUCATION (3).
- 565. CONTINUING EDUCATION FOR PROFESSIONAL GROUPS (3).
- 568. CONTINUING HIGHER EDUCATION (3).
- 571. PROFESSIONAL ISSUES IN STUDENT AFFAIRS (3).
- 581. COMMUNITY PROJECT DEVELOPMENT AND ADULT EDUCATION (3).
- 701. PROFESSIONAL PRACTICES IN ADULT AND HIGHER EDUCATION (3).
- 703. HUMOR AND ADULT LEARNING (3).
- 716. ADULT LEARNING IN THE WORKPLACE (3).
- 722. ADULT AND HIGHER EDUCATION IN SOCIAL CONTEXT (3).
- 761. ADULT LEARNING IN SOCIAL MOVEMENTS: BUILDING CIVIL SOCIETY (3).
- 770. LEADERSHIP IN ADULT EDUCATION (3).
- 786. INTERNSHIP IN ADULT AND HIGHER EDUCATION (3-12).

New Course

Page 95, 2018-19 Graduate Catalog

CIP Code: 13.0403

CAHE 573. APPLIED ASSESSMENT METHODS IN HIGHER EDUCATION (3). *Crosslisted as ETR 573X. Provides students the opportunity to practice and apply assessment methods through an active higher education assessment project. Provides instruction and guidance to conceptualize, operationalize, and implement a higher education assessment project.*

Course Revisions

Page 86, 2018-19 Graduate Catalog

~~CAHEHESA 500. FOUNDATIONS OF HIGHER EDUCATION (3) . . . . .~~

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 16 of 86

~~CAHEHESA 502. EQUITY, DIVERSITY, AND SOCIAL JUSTICE IN HIGHER EDUCATION (3) .....~~

~~CAHEHESA 503. U.S. COLLEGE STUDENTS (3) .....~~

~~CAHEHESA 509. CAMPUS ENVIRONMENTS AND STUDENT CULTURES (3) .....~~

~~CAHEHESA 522. COLLEGE STUDENT DEVELOPMENT THEORY (3) .....~~

~~CAHEHESA 523. ADVOCACY, OUTREACH, AND INTERVENTIONS IN STUDENT AFFAIRS (3) .....~~

~~CAHEHESA 572. ASSESSMENT METHODS IN HIGHER EDUCATION (3) .....~~

~~CAHE 701. HESA 501. STUDENT AFFAIRS ADMINISTRATION AND PRACTICE (3) .....~~

~~CAHEHESA 703. POSTSECONDARY ACCESS IN HIGHER EDUCATION (3) .....~~

~~CAHEHESA 704. STRATEGIC MARKETING AND ENROLLMENT MANAGEMENT (3) .....~~

~~CAHEHESA 770. THE ADMINISTRATION OF HIGHER EDUCATION (3) .....~~

~~CAHEHESA 771. LEGAL ASPECTS OF HIGHER EDUCATION ADMINISTRATION (3) .....~~

~~CAHEHESA 772. FINANCING HIGHER EDUCATION (3) .....~~

CAHA 502. ~~HESA 504. EDUCATING CULTURALLY DIVERSE ADULTS~~ **FOR EQUITY AND SOCIAL JUSTICE IN HIGHER EDUCATION** (3). Analysis and critique of economic, educational, sociological, cultural, and professional issues having an impact on **equity, inclusion, and social justice in postsecondary contexts** the education of culturally diverse adults. Focus on the development of educational programs and classes which address these issues.

~~CAHAHESA 530. INSTRUCTIONAL THEORY, PRACTICE AND TEACHING IN POSTSECONDARY EDUCATION (3) .....~~

~~CAHAHESA 533. APPLIED LEARNING THEORIES IN POSTSECONDARY EDUCATION (3) .....~~

~~CAHAHESA 540. CURRICULUM AND PROGRAM DEVELOPMENT IN POSTSECONDARY CONTEXTS (3) .....~~

~~CAHAHESA 555. SEMINAR IN THE COMMUNITY COLLEGE (3) .....~~

~~CAHAHESA 562. HELPING SKILLS FOR STUDENT AFFAIRS PROFESSIONALS (3) .....~~



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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 17 of 86

~~CAHAHESA 570. ORGANIZATION, PERSONNEL MANAGEMENT, AND ACADEMIC ADMINISTRATION (3) . . . . .~~

~~CAHAHESA 575. PUBLIC POLICY STUDIES IN HIGHER EDUCATION (3) . . . . .~~

~~CAHAHESA 699. MASTER'S THESIS (1-6) . . . . .~~

~~CAHAHESA 702. PHILOSOPHY OF POSTSECONDARY EDUCATION (3) . . . . .~~

~~CAHAHESA 733. THEORY BUILDING FOR LEARNING IN POSTSECONDARY EDUCATION (3) . . . . .~~

~~CAHAHESA 740. PEDAGOGICAL INNOVATIONS AND STUDENT LEARNING (3) . . . . .~~

~~CAHAHESA 757. SEMINAR IN HIGHER EDUCATION (3) . . . . .~~

~~CAHA HESA 799. DOCTORAL RESEARCH AND DISSERTATION (1-15). . . . .~~

Course Revisions

Page 86, 2018-19 Graduate Catalog

~~CAHE HESA~~ CAHE 751. COMMUNITY COLLEGE STUDENTS PERSONNEL SERVICES (3). Seminar on student personnel characteristics, services, and problems topics peculiar to the community (junior) college students. Analysis of current practice and research in the field with emphasis on personnel practices and instruments, orientation procedures, counseling and record keeping, registration, testing and test interpretation, placement, student activity programs, and institutional research on student characteristics, development, persistence, and learning in community college settings.

~~CAHE HESA~~ CAHA 590. WORKSHOP IN ADULT AND HIGHER EDUCATION AND STUDENT AFFAIRS (1-3). Designed for teachers, counselors, and administrators to study contemporary issues in adult and higher education and student affairs. May be repeated to a maximum of 12 semester hours when content varies. . . . .

~~CAHE HESA~~ CAHE 597. INDEPENDENT RESEARCH IN ADULT AND HIGHER EDUCATION AND STUDENT AFFAIRS (1-6). . . . .

~~CAHE HESA~~ CAHA 700. SEMINAR IN ADULT AND HIGHER EDUCATION AND STUDENT AFFAIRS (1-6). Advanced study and discussion of important issues relating to the field of adult and higher education and student affairs. Group and individual interests contribute to the design of the course. . . . .

~~CAHE HESA~~ CAHA 710. EVALUATING ADULT HIGHER EDUCATION PROGRAMS (3). Advanced study of program design and evaluation methods necessary to analyze and improve programs in adult higher education effectively.

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 18 of 86

~~CAHE HESA~~ CAHA 720. REVIEW OF RESEARCH IN ~~ADULT AND~~ HIGHER EDUCATION (3).  
Comprehensive study of research literature in ~~adult and~~ higher education and related social science fields.

~~CAHE HESA~~ CAHA 721. APPLIED RESEARCH DESIGN IN ~~ADULT AND~~ HIGHER EDUCATION (3).  
Provides the opportunity to practice and apply research design skills to an active ~~adult and~~ higher education research project (e.g., pilot study, dissertation). Emphasis ... develop an ~~adult and~~ higher education research project.

~~CAHE HESA~~ CAHA 759. CRITICAL AND FEMINIST PEDAGOGIES IN ~~ADULT AND~~ HIGHER EDUCATION (3). ... ..

~~CAHE HESA~~ CAHA 797. INDEPENDENT RESEARCH IN ~~ADULT AND~~ HIGHER EDUCATION (1- 6).  
... ..

~~CAHE HESA~~ CAHA 798. RESEARCH SEMINAR IN ~~ADULT AND~~ HIGHER EDUCATION (1-3).  
Designed for the advanced doctoral student interested in planning and conducting research studies in ~~adult and~~ higher education. ... ..

Other Catalog Change

Page 80, 2018-19 Graduate Catalog

**Master of Science in Education in Adult and Higher Education**

↓

**Admission**

↓

Applicants will be reviewed holistically ... .. with an applicant if additional information is required.

University Honors students who graduate with a ~~bachelors-bachelor's~~ degree in a related field or as approved by the department are guaranteed admission into the M.S.Ed. program as space permits. University Honors student applicants will still need to complete an application including submission of letters of recommendation, goals statement, and CV/resume.

Other Catalog Change

Page 81-82, 2018-19 Graduate Catalog

**Master of Science in Education in Counseling**

↓

**Requirements**

Students are required to take a minimum of 60 semester hours. Students are required to take ~~36~~ **39** semester hours in the core curriculum, ~~45~~ **12** ... selects a thesis or non-thesis option.

**Common Core **(39)****

↓

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 19 of 86

CAHC 511 - Career Counseling (3)

~~CAHC 521 - Counseling Children and Adolescents (3)~~

CAHC 525 - Counseling Skills and Strategies (3)

↓

**Clinical Core (9)**

↓

**Clinical Mental Health Counseling Specialization Core (12)**

CAHC 524 - Clinical Mental Health Counseling: Programs, Issues, and Practices (3)

~~CAHC 532 - Evidence Informed Practices in Clinical Mental Health (3)~~

CAHC 784X - Systems, Couples, and Family Counseling (3)

↓

**School Counseling Specialization Core (12)**

CAHC 513 - Postsecondary and College Counseling for School Counselors (3)

~~CAHC 521 - Counseling Children and Adolescents (3)~~

CAHC 523 - School Counseling: Programs, Issues and Practices (3)

↓

Other Catalog Change

Page 82, 2018-19 Graduate Catalog

**Master of Science in Education in Counseling**

↓

**Specialization in School Counseling**

This area consists of course work and experiences that prepare students to do counseling in a K-12 school setting. Candidates seeking professional educator licensure must successfully complete the Illinois Licensure Testing System (ILTS): Test of Academic Proficiency (TAP; or state approved substitution) no later than the semester prior to practicum. Candidates must also pass the tests required by their licensure field (ILTS School Counselor [181] exam) prior to internship. See also “Educator Licensure information.”

Other Catalog Change

Page 83, 2018-19 Graduate Catalog

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

↓

**Course Requirements**

The Ph.D. in counselor education and supervision requires a minimum of 105~~84~~ semester hours, including a maximum of 30 semester hours from the master’s degree plus a minimum of 75~~54~~ additional semester hours normally distributed as follows.

**Common Core (27)**

~~CAHC 593 - Crisis Intervention (3)~~

CAHC 700 - Professional Orientation to Counselor Education: Identity and Ethics (3)

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 20 of 86

CAHC 701- Professional Seminar in Counselor Education and Development (3)

CAHC 730 - Advanced Theories of Counseling (3)

~~CAHC 740 – Leadership, Advocacy, and Mentoring (3)~~

CAHC 750 - Advanced Practicum in Individual Counseling (3)

↓

CAHC 786 - Internship in Counseling (9)

CAHC 790 - Research and Scholarship in Counselor Education (3)

~~CAHC 799 – Doctoral Research and Dissertation (15)~~

**Research Core (12)**

↓

ETR 525 - Qualitative Research in Education (3)

~~ETR 531 – Program Evaluation in Education (3) Or other appraisal course with approval of student’s program committee~~

ETR 720 - Advanced Research Methods in Education (3)

~~Electives selected in consultation with student’s program committee (9)~~

**Dissertation (15)**

CAHC 799 - Doctoral Research and Dissertation (15)

Other Catalog Change

Page 85, 2018-19 Graduate Catalog

**Certificates of Graduate Study**

↓

~~**Workplace Learning and Performance (18)**~~

~~This certificate is jointly administered by the Department of Counseling, Adult and Higher Education and the Department of Educational Technology, Research and Assessment. See the College of Education Certificates of Graduate Study for a complete description of this certificate.~~

[Note: This certificate is not being deleted. It will be solely administered by the Department of Educational Technology, Research and Assessment.]

Other Catalog Change

Page 85, 2018-19 Graduate Catalog

**Professional Educator License with and Endorsement in School Counseling**

A student ... Counseling.

~~The student must declare school counseling ... be admitted into the School Counseling area of specialization prior to entering practicum.~~

Further, S students entering the counseling program who want ... the following:

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 21 of 86

~~Other Catalog Change~~

~~Course List~~



~~Adult and Higher Education and Student Affairs (CAHA/HESA)~~

Department of Curriculum and Instruction

All University Section

University Services

Other Catalog Change

Pages 54, 2018-19 Graduate Catalog

**Regional Programs**



College of Education: M.S.Ed. in adult and higher education, ... childhood education, educational administration, ~~elementary education~~, instructional technology, ... educational administration.

Department Section

New Course

Page 95, 2018-19 Graduate Catalog

CIP Code: 13.0201

LTIC 500. INTRODUCTION TO TEACHING ENGLISH LANGUAGE LEARNERS (3). Survey of practices and principles for teaching English language learners in multilingual contexts.

Course Revisions

Page 95, 2018-19 Graduate Catalog

LTIC 550. TEACHING ORAL SKILLS TO ADULT ENGLISH LANGUAGE LEARNERS: METHODS AND MATERIALS (3). ~~Crosslisted as CAHA 550X. ....~~

LTIC 551. TEACHING LITERACY SKILLS TO ADULT ENGLISH LANGUAGE LEARNERS: METHODS AND MATERIALS (3). ~~Crosslisted as CAHA 551X. ....~~

LTIC 552. CURRICULUM DEVELOPMENT FOR ADULT ENGLISH LANGUAGE LEARNERS (3). ~~Crosslisted as CAHA 552X. ....~~

LTIC 553. CROSSCULTURAL ISSUES IN THE ADULT ESL CLASSROOM (3). ~~Crosslisted as CAHA 553X. ....~~

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 22 of 86

Other Catalog Change

Pages 91, 2018-19 Graduate Catalog

**Department of Curriculum and Instruction (LT--, MLTL, TLCI, TLEE)**

↓

The Department of Curriculum and Instruction offers the M.A.T. specialization in elementary education, M.S.Ed. degree in curriculum and instruction ~~or~~ and literacy education, and ... multicultural education.

↓

**Master of Science in Education**

Curriculum and Instruction

~~Elementary education~~

Literacy Education

Other Catalog Change

Pages 94, 2018-19 Graduate Catalog

**Requirements for Specialization in Literacy Education**

↓

Successful completion of a candidacy examination. A candidacy examination ... can be made at the Department of ~~Literacy and Elementary Education~~ Curriculum and Instruction.

Other Catalog Change

Page 94, 2018-19 Graduate Catalog

**Postsecondary Developmental Literacy and Language Instruction (12)**

↓

**Requirements (12)**

↓

One of the following (3)

~~CAHE HESA~~ CAHE 509 - Campus Environments and Student Cultures (3)

~~CAHE HESA~~ CAHE 522 - College Student Development Theory (3)

~~CAHE 702~~ Advanced College Student Development Theory (3)

~~LTCY 586~~ Internship in Literacy Education (approved topics) (3)

LTCY 592 - Special Topics in Literacy Education (3)

LTCY 597 - Independent Research in Literacy Education (3)

LTIC 551/~~CAHA 551X~~ - Teaching Literacy Skills to Adult English Language Learners: Methods and Materials (3)

LTIC 553/~~CAHA 553X~~ - Crosscultural Issues in the Adult ESL Classroom (3)

LTRE 718 - Adult Reading Instruction (3)

Other Catalog Change

Page 94-95, 2018-19 Graduate Catalog

**Teaching English as a Second Language and Bilingual Education (15-18)**

↓

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 23 of 86

One of the following (3)

↓

LTIC 550/~~CAHA 552X~~ - Teaching Adults English as a Second Language: Methods and Materials for Teaching Oral Skills (3)

Course work from the following (6-9)

↓

LTIC 551/~~CAHA 551X~~ - Teaching Literacy Skills to Adult English Language Learners: Methods and Materials (3)

LTIC 552/~~CAHA 552X~~ - Curriculum Development for Adult English Language Learners (3)

LTIC 553/~~CAHA 553X~~ - Crosscultural Issues in the Adult ESL Classroom (3)

↓

If chosen, take 3 semester hours in one of the following:

~~CAHA 586— Internship in Adult and Higher Education and Student Affairs (3)~~

ENGL 696 - Practicum in the Teaching of College English (3)

LITC 586 - Internship in Literacy Education (1-12)

Department of Educational Technology, Research and Assessment

College Section

Other Catalog Change

Pages 79, 104, 2018-19 Graduate Catalog

**Certificates of Graduate Study**

↓

~~**Workplace Learning and Performance (18)**~~

~~The certificate of graduate ... development.~~

~~CAHA 533— Applied Learning Theories in Postsecondary Education (3)~~

↓

~~ETT 562— Instructional Design II (3) (If not taken to fulfill requirements above.)~~

[Note: This certificate is not being deleted. It will be solely managed by the Department of Educational Technology, Research and Assessment.]

Department Section

New Course

Page 107, 2018-19 Graduate Catalog

CIP Code: 13.0603

ETR 573. APPLIED ASSESSMENT METHODS IN HIGHER EDUCATION (3). *Crosslisted* as HESA 573X. ~~Provides students the o~~ppportunity to practice and apply assessment methods through an active higher

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 24 of 86

education assessment project. ~~Provides~~ instruction and guidance to conceptualize, operationalize, and implement a higher education assessment project.

Other Catalog Change

Page 104, 2018-19 Graduate Catalog

**Certificates of Graduate Study**

↓

**Workplace Learning and Performance (18)**

This certificate is jointly ... complete description of this certificate. The certificate of graduate study in workplace learning and performance is available to any graduate-level student in good standing. This certificate is designed to prepare professionals to analyze, design, implement, and evaluate practices and systems that promote individual, group, and organizational learning, creativity, and performance through training and development, organization development, and career development.

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

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

ETT 561X - Human Resource Development (3),

OR ETT 715X - Strategic Human Resource Development (3)

ETT 560 Instructional Design I (3),

OR ETT 562 - Instructional Design II (3)

ETT 564 - Training and Performance Technology (3)

Two of the following (6)

~~CAHE HESA~~ CAHA 530 - Instructional Theory, Practice and Teaching in Postsecondary Education (3) (If not taken to fulfill requirements above.)

ETR 531 - Program Evaluation in Education (3)

ETR 560 - Computer Data Analysis (3)

ETT 562 - Instructional Design II (3) (If not taken to fulfill requirements above.)

ETT 565 - Advanced Instructional Design (3)

ETT 715X - Strategic Human Resource Development (3)

~~ETT 765X - Consultation in Human Services (3)~~

ETT 764 - Advanced Training and Performance Technology (3)

ETT 765X - Consultation in Human Services (3)

[Note: This certificate is not new. It will be solely managed by the department. Course requirements have been updated.]

**Department of Kinesiology and Physical Education**

Course Revisions

Page 115, 2018-19 Graduate Catalog

KNPE 596. SPECIAL TOPICS IN KINESIOLOGY AND PHYSICAL EDUCATION (1-3). Topics announced. May be repeated to a maximum of ~~6~~ 9 semester hours when subject varies.



**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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

**SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog**

p. 25 of 86

LESM 592. SPECIAL TOPICS IN SPORT MANAGEMENT (1-3). Topics announced. May be repeated to a maximum of ~~6~~9 semester hours when topic varies. PRQ: Admission into the M.S. in sport management program or consent of department.

Course Revision

Page 116, 2018-19 Graduate Catalog

LESM 586. INTERNSHIP IN SPORT MANAGEMENT (1-~~6~~12). Supervised ~~full-time management~~ experience for students in a sports management setting. May be repeated to a maximum of ~~6~~12 semester hours. PRQ: ~~Completion of all course work; admission into the M.S. in sport management program; or~~ eConsent of department.

Other Catalog Change

Page 109, 2018-19 Graduate Catalog

**Master of Science in Sport Management**

This 36-semester-hour program is designed to prepare students for a management career in the sport industry. Students attain theoretical knowledge and practical skills in preparation for various sport managerial careers in athletic and sport clubs, and intercollegiate athletics, professional and amateur sports, equipment merchandising, and sport consulting.

University Honors students with a B.A. or B.S. in a related field are guaranteed admission into the M.S. in Sport Management as space permits.

Other Catalog Change

Page 110, 2018-19 Graduate Catalog

**Master of Science in Education in Kinesiology and Physical Education**

↓

**Admission**

↓

Applicants to the master's ... Graduate School.

University Honors students who graduate with a B.A. or B.S. in a related field are guaranteed admission into the M.S.Ed. program as space permits.

Other Catalog Change

Page 110, 2018-19 Graduate Catalog

**Specialization in Adapted Physical Education**

↓

**Thesis Option (36)**

↓

Specialization Core (9)15

↓

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 26 of 86

KNPE 591 - Assessment and Program Planning in Adapted Physical Education (3)

Two of the following (6)

KNPE 569 - Instructional Skills for Physical Education (3)

KNPE 577 - Physical Education in the Elementary School (3)

KNPE 620 - Seminar in Physical Education Curriculum (3)

Select one from the science core (3-4)

~~KNPE 514 - Neuromuscular Aspects of Physical Performance (3)~~

~~KNPE 535 - Mechanical Analysis of Motor Skills (3)~~

KNPE 557 - Applied Physiology of Exercise (4)

KNPE 578 - Seminar in Motor Development (3)

~~KNPE 635 - Biomechanics (3)~~

~~KNPE 652 - Exercise Bioenergetics (3)~~

KNPE 686 - Seminar in Motor Learning (3)

Select one from the social science core (3)

~~KNPE 507 - History of Physical Education (3)~~

~~KNPE 509 - Philosophy of Physical Education (3)~~

KNPE 582 - Psychology of Sport and Exercise (3)

↓

Course work related to the student's degree specialization approved by an adviser (93)

KNPE 699A - Master's Thesis (6)

Other Catalog Change

Page 111, 2018-19 Graduate Catalog

**Specialization in Pedagogy and Curriculum Development in Physical Education**

↓

**Thesis Option (36)**

↓

Specialization Core (915)

KNPE 620 - Seminar in Physical Education Curriculum (3)

Two of the following (6)

~~KNPE 568 - Principles of Supervision of Physical Education (3)~~

KNPE 569 - Instructional Skills for Physical Education (3)

KNPE 577 - Physical Education in the Elementary School (3)

Two of the following (6)

KNPE 589 - Inclusion Strategies for Special Populations: Theory and Practice (3)

KNPE 590 - Physical Education for Individuals with Physical and Sensory Disorders (3)

KNPE 591 - Assessment and Program Planning in Adapted Physical Education (3)

Select one from the science core (3-4)

~~KNPE 514 - Neuromuscular Aspects of Physical Performance (3)~~

~~KNPE 535 - Mechanical Analysis of Motor Skills (3)~~

KNPE 557 - Applied Physiology of Exercise (4)

KNPE 578 - Seminar in Motor Development (3)

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 27 of 86

~~KNPE 635 – Biomechanics (3)~~  
~~KNPE 652 – Exercise Bioenergetics (3)~~  
KNPE 686 - Seminar in Motor Learning (3)

Select one from the social science core (3)

~~KNPE 507 – History of Physical Education (3)~~  
~~KNPE 509 – Philosophy of Physical Education (3)~~  
KNPE 582 - Psychology of Sport and Exercise (3)

↓

Course work related to the student's degree specialization approved by an adviser (93)

KNPE 699A - Master's Thesis (6)

Other Catalog Change

Page 111, 2018-19 Graduate Catalog

**Adapted Physical Education (15)**

↓

KNPE 591 - Assessment and Program Planning in Adapted Physical Education (3)

~~SESE 565 – Collaboration and Consultation Skills for School Professionals (3);~~

**One 500/600-level course within Special and Early Education EED (3),**

OR KNPE 549 - Independent Study in Kinesiology and Physical Education (3)

Other Catalog Change

Page 113, 2018-19 Graduate Catalog

**Dance Education (KNDN)**

↓

**Kinesiology and Physical Education (KNPE)**

**Department of Leadership, Educational Psychology, and Foundations**

New Courses

Page 125, 2018-19 Graduate Catalog

CIP Code: 42.2806

EPS 552. CLASSROOM MANAGEMENT FOR ADOLESCENT STUDENTS (3). Applications of motivation and management principles and procedures to maintain a positive learning environment in classrooms, focusing particularly on the developmental needs of adolescent students. Topics include building relationships with students, establishing classroom structures and expectations, managing and resolving conflict appropriately, responding effectively to student misbehavior, and effectively implementing a variety of instructional modalities. Intended for middle and secondary licensure.

EPS 560. MIND, BRAIN, AND EDUCATION (3). Neuro-cognitive bases of learning, memory, and motivation, and their implications for educational practice. Survey topics include basic neuroanatomy and an overview of neuroscience methodologies; evaluating claims of “brain-based” educational techniques;

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 28 of 86

genetic, cultural, and environmental influences on brain development and learning; the cognitive and neural substrates of reading, mathematical reasoning, and creativity; and the cognitive and neural substrates of learning disability and giftedness. For each topic, classroom implications will be considered.

Other Catalog Change

Page 118-119, 2018-19 Graduate Catalog

**Master of Science in Education in Educational Psychology**

↓

**Admission**

↓

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

University Honors students who graduate with a B.A. or B.S. in a related field are guaranteed admission into the M.S.Ed. program as space permits. University Honors student applicants will still need to complete an application including submission of letters of recommendation, goals statement, and CV/resume.

Other Catalog Change

Page 120-121, 2018-19 Graduate Catalog

**Doctor of Education in Educational Leadership and Policy Studies**

↓

**Requirements**

The doctoral program in educational leadership and policy studies requires a minimum of 63~~42~~ semester hours of ... Endorsement. The Educational Policy Studies specialization is designed for individuals who hold a master's degree but do not hold or wish to pursue an Ed.S. degree but and are interested in doctoral-level analysis of educational issues, policies, and practices. Please note: neither specialization leads to Superintendent Endorsement.

**Specialization in Educational Leadership**

If the applicant holds an Ed.S. degree from NIU, the doctoral program requires 33~~42~~ semester hours as follows:

Course work in ..., sociocultural analyses of education (18~~24~~)

Transfer credit from the Ed.S. degree or equivalent (6)

↓

LEEA 799 - Doctoral Research and Dissertation (4~~5~~12)

If the applicant holds an Ed.S. degree from an institution other than NIU, the doctoral program requires 42 semester hours as follows:

Course work in research understandings and skills, learning and development theories, sociocultural analyses of education (24)

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 29 of 86

Electives approved by ~~adviser~~ adviser or program coordinator (6)

Successful completion of candidacy exam

LEEA 799 - Doctoral Research and Dissertation (12)

### Specialization in Educational Policy Studies

For students without an Ed.S. degree, the doctoral program requires ~~63~~ 66 semester hours beyond the master's degree as follows:

Course work ~~constituting common requirements~~ in research understandings and skills, learning and development theories, and sociocultural analyses of education (~~18~~ 24)

↓

LEEA 799 - Doctoral Research and Dissertation (~~15~~ 12)

### Candidacy Exam

~~This~~ The candidacy examination requires demonstration of ~~encompasses the common requirements and the area of professional~~ applicable knowledge in educational leadership and policy studies. ~~The exam process ensures a common standard is used in evaluating students for candidacy and to ensure all program candidates are able to demonstrate a broad body of educational leadership and policy studies content knowledge. The requirements and content matter covered on the exam are reinforced throughout course work, and special exam review sessions and practice exam opportunities are made available during students' final semester of course work.~~ A student must be in good academic standing, both overall and in the Ed.D. program to be eligible to take this examination. ~~See program Student Handbook for further information.~~ A student who fails this examination may, with the permission of the major department, repeat it no sooner than the following academic term. A student who fails this examination a second time, or is not granted approval for a second attempt, shall not be permitted to continue work toward the Ed.D. degree, and admission to that program shall be terminated.

## Department of Special and Early Education

### College Section

#### Other Catalog Change

Page 79, 2018-19 Graduate Catalog

### Director of Special Education (20)

This certificate is designed for school leaders seeking the Director of Special Education endorsement on the Professional Educator License (PEL). It is available to ~~students~~ candidates who can document two full years of full-time special education teaching or service as a school social worker, school psychologist, school nurse, school counselor, or speech language pathologist ~~or~~ with a valid PEL. ~~Students~~ Candidates must have attained a GPA of at least 3.20 in their most recent degree program. Individuals who do not have a master's degree at

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 30 of 86

the start of the program must have completed a master's degree and pass the appropriate content area test prior to recommendation for the Director of Special Education endorsement. Application materials for this certificate are available through the Department of Special and Early Education.

New Courses

Pages 136, 138, 2018-19 Graduate Catalog

CIP Code: 13.1099

SESE 686. PRACTICUM IN BEHAVIOR ANALYSIS (3). Supervised field experience in behavior analysis in schools, agencies, and other facilities. May be repeated to a maximum of 9 credit-semester hours. PRQ: Consent of department.

SESE 692. SEMINAR IN EVIDENCE-BASED PRACTICES IN SPECIAL EDUCATION: SINGLE CASE RESEARCH METHODS (3). In-depth analysis of critical issues and research supported practices in the field of special education. Consideration of major concepts underlying single-case research regarding individuals with disabilities. Serves as a capstone experience for candidates in the LBS1 master's program. May be repeated up to 6 credit-semester hours. PRQ: SESE 603 and completion of 15 additional credit-semester hours in SEED course\_work, or consent of department.

SEVI 545. HOME MANAGEMENT FOR PERSONS WITH VISUAL IMPAIRMENTS AND MULTIPLE DISABILITIES (3). Study of adaptive techniques involved in teaching home management and related life skills to individuals who are visually impaired and/or multiply disabled. Emphasis on individuals who are transition-aged, vocational-aged, and seniors. Includes simulated visual impairments during completion of common home tasks. PRQ: Consent of department.

Course Revisions

Page 134, 2018-19 Graduate Catalog

SESE 552. ASSISTIVE TECHNOLOGY/MULTIPLE DISABILITIES (3). Evaluating abilities ... programming augmentative communication devices and using other assistive technology devices. ~~PRQ: SESE 561.~~

SEVI 585A. SUPERVISED FIELD EXPERIENCE ~~STUDENT TEACHING~~ IN SPECIAL EDUCATION: ~~VISION~~ VISUAL IMPAIRMENTS (9 ~~1-12~~). Supervised ~~student teaching~~ of field experience working with children and adolescents with ~~vision~~ visual impairments in culturally and educationally diverse settings. All ~~students~~ candidates must satisfy the regulations governing the certification they are pursuing ~~student teaching~~. PRQ: Consent of department.

Course Revision

Page 137, 2018-19 Graduate Catalog

SESE 792. SEMINAR: SINGLE CASE RESEARCH METHODOLOGIES ~~AND EVIDENCE-BASED PRACTICES~~ FOR BEHAVIOR ANALYSTS IN SPECIAL EDUCATION (3). In-depth analysis of critical

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 31 of 86

issues and research supported practices in the field of special education. Consideration of major concepts underlying single-case research regarding individuals with disabilities. Includes analyzing the overview of single-case designs, data analysis, identification of variables, intervention planning, measurement systems, and parameters most critical in study of children and youth with special needs. Serves as a capstone experience for candidates in the BCBA-Board Certified Behavior Analyst master's program. May be repeated up to 6 credit hours. PRQ: SESE 603 or consent of department.

Other Catalog Change

Page 129, 2018-19 Graduate Catalog

**Master of Science in Education in Early Childhood Education**

The ~~major~~ M.S.Ed. in early childhood education program offers focused study ... Early Childhood Illinois Professional Educator License (PEL) requirements to teach children from birth through grade 2 in Illinois public schools. Candidates who meet the PEL requirements will be automatically eligible to receive the Gateways to Opportunity Level 5 Early Childhood Education (ECE) credential. Candidates may also elect to complete course work to fulfill early childhood special education approval requirements for teaching children with disabilities and special needs, birth through age six in pre-kindergarten. Advisers evaluate candidates' prior course work, professional experience, and previous credentials to determine individual programs leading to PEL professional educator license with early childhood endorsement and/or early childhood special education approval, as well as the Gateways Level 5 ECE credential.

↓

**Non-Thesis Option**

↓

SEEC 504 - Developmentally Appropriate Practice in the Primary Classroom (3)

SEEC 510 —Preschool Movement in the United States (3),

OR SEEC 511 - Comparative/International Early Childhood Education (3)

↓

Other Catalog Change

Page 130, 2018-19 Graduate Catalog

**Master of Science in Education in Special Education**

↓

Candidates seeking licensure must successfully complete the Illinois Licensure Testing System Test of Academic Proficiency (or state approved substitution) prior to no later than the semester prior to student teaching, admission to the Teacher Education Program in special education and Candidates must also pass the tests required by their licensure field prior to student teaching. See also "Educator Licensure Information."

Other Catalog Change

Page 131, 2018-19 Graduate Catalog

**Specialization in Advanced Special Education Practices**

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 32 of 86

This specialization focuses on a program of study to strengthen the professional development of candidates. Candidates may choose from several options or develop a unique plan of study that meets their professional development needs, who have a professional educator license with endorsement in special education.

Other Catalog Change

Page 132, 2018-19 Graduate Catalog

**Specialization in Visual Impairments**



SEVI 586 - Topical Seminar in Teaching Students with Visual Impairments (3)

One graduate level course in research, such as: SESE 792 or ETR 520 or approved by adviser.

~~Elective course work with adviser's approval~~

Candidates also may be required to complete prerequisite courses prior to enrolling in specific graduate courses.

Other Catalog Change

Page 130 – 132, 2018-19 Graduate Catalog

**Master of Science in Education in Special Education**



**Specialization in Visual Impairments**

The specializations in Advanced ... these programs.

The specializations in Learning ... Visually Impaired. In some cases candidates working toward both the PEL and master's degree may need to complete additional semester hours will be necessary to meet the requirements for both licensure and the master's degree.



The specializations in Vision Rehabilitation Therapy and Orientation and Mobility are designed to serve individuals ...



**Advisement**

A candidate is assigned a graduate adviser when admitted to the program. The candidate also is assigned to a faculty mentor. Candidates are strongly encouraged to contact their faculty mentors early in their degree program. Courses of study are developed ... Graduate Catalog early in the program.



**Specialization in Advanced Special Education Practices**



**Required courses in this specialization**

SESE 592 - Seminar in Special Education (3)

OR SESE 747 - Advanced Seminar in Special Education (3)

SESE 792/692 - Seminar in evidence-based practices in special education: Single case research methods (3)

~~Seminar: Single Case Research Methodologies and Evidence-Based Practices in Special Education~~, or another research course approved by adviser (3)



**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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

**SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog**

p. 33 of 86

Course work in the major (12-18)  
Additional course work approved by adviser (6-9)

**Specialization in Learning Behavior Specialist I**

↓  
One graduate level course in research, such as SESE 792692, or approved by adviser.

↓  
**Specialization in Orientation and Mobility**

↓  
One graduate level course in research, such as: SESE 792692 or ETR 520 or approved by adviser.

↓  
**Specialization in Visual Impairments**

↓  
One graduate level course in research, such as: SESE 792692 or ETR 520 or approved by adviser.

Other Catalog Change

Page 132 – 133, 2018-19 Graduate Catalog

**Director of Special Education (20)**

This certificate is designed for ... document two full years of full-time special education teaching or service as a school social worker, school psychologist, school nurse, school counselor, or speech-language pathologist on with a valid PEL. ...

**COLLEGE OF ENGINEERING AND ENGINEERING TECHNOLOGY**

**Department of Electrical Engineering**

Course Revisions

Page 145, 2018-19 Graduate Catalog

530. DESIGN WITH FIELD PROGRAMMABLE LOGIC DEVICES (3). Design ... gates. Design of finite state machines and introduction to latest computer-aided computer-aided tools. PRQ: ELE 350 250 or consent of department.

655. MICROPROCESSOR SYSTEM DESIGN (3). .... PRQ: ELE 657 557 or consent of department.

Other Catalog Change

Page 144, 2018-19 Graduate Catalog

**Requirements for Accelerated B.S./M.S. Sequence**

This accelerated sequence ... lead to a B.S. degree only, but only after all the requirements for that degree have been met. University Honors students who are actively accumulating points through honors coursework or Engage PLUS are guaranteed admission.

**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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

**SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog**

p. 34 of 86

Other Catalog Change

Page 145, 2018-19 Graduate Catalog

**Doctor of Philosophy in Electrical Engineering**

↓

**Elective Course Work (45)**

Students must take an additional 45 semester hours of graduate course work as electives. **This may include up to 27 extra dissertation hours in addition to the required dissertation hours.** All elective courses must be approved by the Graduate Studies Committee, in consultation with the faculty adviser and the chair of the department. Students in the professional track need to take 3 semester hours of Industry Residency (ELE 701).

Other Catalog Change

Page 145, 2018-19 Graduate Catalog

Certificates of Graduate Study

↓

Digital Signal Processing (12)

**Choose 4 from the following with at least one being at a 600 level**

ELE 551 - Digital Filter Design (3)

ELE 552 - Real-Time Digital Signal Processing (3)

**ELE 559 - Signal Processing Detection Theory (3)**

ELE 650 - Digital Signal Processing Credits: (3)

ELE 651 - Random Signal Processing Credits: (3)

**ELE 660 - Digital and Analog Communication Systems (3)**

**Department of Industrial and Systems Engineering**

New Courses:

2018-19 Graduate Catalog

CIP CODE: 14.3501

ISYE 504. OPERATIONS RESEARCH MODELS FOR ISYE APPLICATIONS (3). A review of several operations research techniques such as linear programming, nonlinear programming, dynamic programming, goal programming, queuing theory, and Markov chains, and their applications to Industrial and Systems Engineering related problems. PRQ: consent of the department.

ISYE 610. COMPUTATIONAL BIOMECHANICS (3). Applying biomechanical tools and bioinstrumentation techniques to quantitatively evaluate the physical stresses of the body structures in workers. Based on the biomechanical considerations, design or improve the workplace to minimize the physical stresses of workers and improve the productivity. Major topics include: body structure, anthropometry, bioinstrumentation, occupational biomechanical models, and workplace design. PRQ: ISYE 510, or consent of the department.

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

**SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog**

p. 35 of 86

Other Catalog Change                      2018-19 Graduate Catalog

**Accelerated B.S./M.S. Sequence**

This plan is open to all ... faculty adviser. University Honors students who are actively accumulating points through honors course work or Engage PLUS are guaranteed admission.

↓

Other Catalog Change                      Page 149, 2018-19 Graduate Catalog

**Master of Science in Industrial and Systems Engineering**

↓

**Specialization in Engineering Management (30)**

↓

**Track 1- Engineering Decision Analysis**

Three of the following (9)

↓

ISYE 635 - Advanced Experimental Design for Engineering (3),  
~~OR STAT 674—Design and Analysis of Experiments (3)~~  
ISYE 670 - Data Analytics for Engineers (3)

↓

**Certificates of Graduate Study**

↓

**Lean Six Sigma (12)**

↓

Four of the following (12)

ISYE 535 - Experimental Design for Engineering (3),  
~~OR STAT 674—Design and Analysis of Experiments (3)~~  
ISYE 539 - Six Sigma Excellence and Modern Problem Solving (3)

↓

Other Catalog Change                      Page 150, 2017-18 Graduate Catalog

**Doctor of Philosophy in Industrial and Systems Engineering**

↓

**Core Courses (12)**

↓

**Electives (4833)**

An additional 4833 semester hours of graduate course work as electives. ... department.

**Dissertation (2136)**

A minimum of 2136 semester hours of ISYE 799, Doctoral Dissertation must be taken. The student must successfully pass the candidacy examination before taking ISYE 799.

**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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

**SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog**

p. 36 of 86



**Department of Mechanical Engineering**

New Course: 2018-19 Graduate Catalog

CIP CODE: 14.1901

579. DIGITAL HUMAN MODELING AND SIMULATION (3). Fundamentals of using computational methods to simulate the human musculoskeletal system as articulated kinematic chains. Use of methods adapted from robot kinematics and dynamics, coupled with joint biomechanics and joint strength profiles. Prediction of serial link motion of the human body and associated physical demands and limitations. PRQ: MEE 320, and MEE 380 or MEE 381, or consent of the department.

Course Revisions: 2018-19 Graduate Catalog

697. INDEPENDENT STUDY (1-3). Independent . . . , but only 3 semester hours of combined credit in MEE 697 and MEE 698 will count toward the degree. PRQ: Consent of department.

698. SPECIAL TOPICS IN MECHANICAL ENGINEERING (1-3). Advanced study of mechanical engineering topics. Course may be repeated, but only 3 semester hours of combined credit MEE 697 and MEE 698 will count toward the degree. to a maximum of 9 semester hours, with no more than 3 semester hours in the same topic. PRQ: Consent of department.

Other Catalog Change 2018-19 Graduate Catalog

**Master of Science in Mechanical Engineering**



Admission to the graduate program . . . with a GPA of at least 3.00. University Honors students who are actively accumulating points through honors course work or Engage PLUS are guaranteed admission.

**Department of Technology**

Course Deletion: Page 159 2018-19 Graduate Catalog

TECH 520. COMPUTER-INTEGRATED MANUFACTURING (3).

Course Revisions: Page 160 2018-19 Undergraduate Catalog

TECH 522. ADVANCED INDUSTRIAL MANUFACTURING (3). . . . PRQ: TECH 420 or TECH 520  
TECH 425 or TECH 444, or consent of department.

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 37 of 86

TECH 523. AUTOMATED MANUFACTURING SYSTEMS (3). .... PRQ: **TECH 325**, TECH 326, ~~TECH 520, and TECH 525~~, or consent of department.

**COLLEGE OF HEALTH AND HUMAN SCIENCES**

**All University Sections**

**The Graduate School**

Other Catalog Change Page 11, 2018-19 Graduate Catalog

**College of Health and Human Sciences**  
~~Doctor of Philosophy (Ph.D.) Health Sciences~~  
↓  
**School of Interdisciplinary Health Professions**  
Master of Science (M.S.)  
↓  
**Doctor of Philosophy (Ph.D.)**  
**Health Sciences**

**College Section**

Course Deletions Page 164, 2018-19 Graduate Catalog

UHHS 751. FUNDING AND POSITIONING RESEARCH: GRANTMANSHIP SKILLS (1).

UHHS 752. FUNDING AND POSITIONING RESEARCH: ETHICS AND PROFESSIONAL RESPONSIBILITIES (1).

Course Revisions Page 164, 2018-19 Graduate Catalog

UHHS 731. RESEARCH DESIGN, CONDUCT, AND ANALYSIS IN THE HEALTH SCIENCES II (3). .... PRQ: UHHS 730 **or consent of program**.

UHHS 740. DATA ANALYSIS IN THE HEALTH SCIENCES (3). .... PRQ: UHHS 730 or consent of ~~school~~ **program**.

UHHS 770. INDEPENDENT STUDY (1-3). .... A maximum of **125** hours may count toward the degree. PRQ: Consent of adviser **and program director**.

Other Catalog Change Page 162-3, 2018-19 Graduate Catalog

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

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 38 of 86

**Doctor of Philosophy in Health Sciences**

The college-wide Ph.D. program emphasizes an interprofessional orientation to research and practice: as students work with Graduate-graduate faculty members from across the college. The Ph.D. prepares students from a wide range of health and human sciences fields to function effectively as scholars and researchers within academic and practice settings. Doctoral students participate in shared learning across online seminars and research tools courses by making connections to health topics from the perspectives of multiple disciplines. Students complete an individualized program of study that is tailored to individual needs before taking the candidacy examination and conducting a dissertation under the supervision of a dissertation director(s). The residency requirement is fulfilled through limited face-to-face meetings for core program courses. Admission and course requirements are detailed under the School of Interdisciplinary Health Professions.

**Admission**

A student seeking ... accredited institution.

**Course Requirements**

Completion of ... master's degree.

**Core Courses (8)**

↓

**Research Methods Requirements (12)**

↓

**Individualized Program of Study (12)**

All students are required ... course work may be required.

**Additional Requirements**

All students must ... available online.

**Candidacy Examination (1)**

UHHS 798—Candidacy Examination (1)

A student must ... program is terminated.

**Doctoral Research and Dissertation (12)**

UHHS 799—Doctoral Research and Dissertation (12)

**Oral Defense of Dissertation**

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

**Research Tool Requirement**

The Research Tool Requirement is met by completing UHHS 730, UHHS 731, and UHHS 740.

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 39 of 86

[Note: This program is not being deleted. It is being moved to the School of Interdisciplinary Health Professions.]

School of Allied Health and Communicative Disorders

New Course

Page 168, 2018-19 Graduate Catalog

CIP Code: 51.3699

AHCD 620. MINDFULNESS: MEDITATION SKILLS AND PRACTICE (0.5/2). ~~This course is~~ ~~designed~~ Designed for Allied Health Professionals ~~that who~~ may utilize mindfulness techniques in their clinical work, academic interactions, and personal activities/relationships. Benefits of this practice include decreased perceived stress levels, increased compassion toward self and others, increased attention and listening skills, and clear focused thinking. PRQ: Consent of school.

New Courses

Page 171, 2018-19 Graduate Catalog

CIP Code: 51.2308

AHPT 601. INTRODUCTION TO PHYSICAL THERAPY PRACTICE (2). Expected roles and diverse skill sets of a physical therapist as a life-long learner, evidence-based clinician, and member of an interdisciplinary health care team. Emphasis on system-based clinical reasoning and decision-making, patient-focused care across the life-span, learning strategies, professional communication, and cultural competence. PRQ: Consent of school.

AHPT 604. MOVEMENT SYSTEMS IN PHYSICAL THERAPY (2). Integration of movement systems including cardiovascular, pulmonary, endocrine, integumentary, nervous, and musculoskeletal. Topics include human kinetics, human kinematics, and human biomechanics as it relates to human movement concepts in physical therapy. CRQ: AHPT 610. PRQ: Consent of school.

Course Revisions

Page 168, 2018-19 Graduate Catalog

~~AHCD~~ ~~COMD~~ 699. MASTER'S THESIS (1-6). May be repeated to a maximum of 6 semester hours. **S/U and IP grading may be used.** PRQ: Consent of the student's adviser.

AUD 685. CLINICAL CLERKSHIP IN AUDIOLOGY (1). Observation, ... children. **Must be repeated over three terms;** ~~m~~May be repeated to a maximum of 4 semester hours. PRQ: AUD 678 and AUD 684 with a grade of B- or better; or consent of school.

AUD 686. CLINICAL INTERNSHIP IN AUDIOLOGY (1). Advanced ... and supervision. **Must be repeated over three terms;** ~~m~~May be repeated to a maximum of 4 semester hours. PRQ: AUD 679, AUD 680, and **three terms of** AUD 685 with a grade of B- or better; or consent of the school.

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 40 of 86

AUD 693. EXTERNSHIP IN AUDIOLOGY (1-15 3 - 9). Advanced practicum in audiologic assessment and management in an external setting. **Must be repeated over three consecutive terms for a total** ~~May be repeated to a maximum~~ of 21 semester hours. ....

Course Revisions

Page 169, 2018-19 Graduate Catalog

AUD 798. AU.D. RESEARCH (1-3). ....

AHPT 744. INDEPENDENT STUDY IN PHYSICAL THERAPY (1-6). Independent study ... maximum of 6 semester hours. **S/U grading may be used.** PRQ: Consent of school.

Course Revisions

Page 171, 2018-19 Graduate Catalog

AHPT 610. FOUNDATIONS OF PHYSICAL THERAPY I (23). Development of skill ... , and flexibility. ~~Topics include joint biomechanics, kinematics and anatomical applications.~~ **CRQ: AHPT 604.** PRQ: Consent of school.

AHPT 611. FOUNDATIONS OF PHYSICAL THERAPY II (23). ....

AHPT 612. FOUNDATIONS OF PHYSICAL THERAPY III (32). Physical therapy management approaches and examination techniques. Topics include screening examinations, **standardized assessments, transfer training, basic wheelchair fitting** ~~posture, balance, and gait assessments,~~ and gait training using assistive devices. PRQ: Consent of school.

AHPT 614. FOUNDATIONS OF PHYSICAL THERAPY V (3). Development of skills ~~in~~ **using decision-making models to** ~~examination, evaluation and~~ **create evidence-based prescriptive plans in the treatment** of individuals with **and without** movement disorders. ~~Related to soft tissue or other system dysfunction.~~ PRQ: Consent of school.

AHPT 620. TOPICS IN CLINICAL EDUCATION (1). Introduction to the roles and responsibilities of healthcare professionals in various settings across the continuum of ~~healthcare, including the process of~~ clinical education. **Course will include experiential engagement in professional and interdisciplinary collaboration in physical therapy.** Students may repeat up to 2 credits. PRQ: Consent of school.

AHPT 639. EVALUATION AND TREATMENT OF MUSCULOSKELETAL DISORDERS (34). ....

AHPT 642. DIFFERENTIAL DIAGNOSIS IN PHYSICAL THERAPY (3). Exploration into **screening, physical therapy** diagnosis and medical management of patients ~~with musculoskeletal disorders~~ throughout the life span ~~and in multiple clinical settings.~~ Basic issues and concepts in human physiology, anatomy, pathology, and pharmacology will be ~~reviewed in terms of applied~~ **ability** to evidence-based practice. PRQ: Consent of school.



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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 41 of 86

AHPT 709. APPLIED RESEARCH METHODS IN PHYSICAL THERAPY I (1-2). Application of research concepts in the design of a clinical research study. May be repeated up to 4 semester hours. PRQ: Consent of school.

Other Catalog Change

Page 165, 2018-19 Graduate Catalog

### Specialization in Speech-Language Pathology

#### Admission

Admission to the specialization in speech-language pathology is limited to the summer term with an application deadline of January 1<sup>st</sup>. To be assured consideration for admission, prospective students must submit all required completed application materials through the Communication Sciences and Disorders Centralized Application Service (CSDCAS) (application forms, official transcripts, GRE general test scores, and letters of recommendation) and to the Graduate School portals. by the stated application deadline. NIU university honors students admitted via the freshman guaranteed admission program should check with the SLP program regarding entry requirements.

↓

A typewritten statement describing the applicant's qualifications, goals, and career aspirations as they relate to the speech-language pathology communicative disorders program at NIU.

Documentation of 25 hours of supervised observation of speech-language pathology services.

Final decisions regarding admissions are made by the program's admission committee on the basis of a total profile of an applicant's qualifications.

↓

#### Requirements

↓

AHCD/COMD 699 - Master's Thesis (maximum of 3 semester hours) (1-3)

Students are required to complete the following practicum courses:

Other Catalog Change

Pages 166-7, 2018-19 Graduate Catalog

### Doctor of Audiology

↓

#### Admission

To be considered for admission to the Doctorate of Audiology (Au.D.) degree program, prospective students must submit completed application materials to the Graduate School no later than January 15 for fall admission. To be assured consideration for admission, prospective students must submit all required application materials through the Communication Sciences and Disorders Centralized Application Service (CSDCAS) and the Graduate School portals. Admission to the Au.D. program is typically limited to the fall term, but exceptions may be considered in light of a review of deficiency course work.

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 42 of 86

Admission to the ...

↓

The Statement of Purpose is an integral part of the application. ~~The statement should be no less than one page, but no more than two (2) pages. Students should use this opportunity to tell the admissions committee about their interests in audiology, as well as what makes them attractive candidates for the Au.D. program.~~ address their personal and professional goals.

Three (3) letters ...

↓

**Requirements**

Students must complete a minimum of 112 semester hours from the following.

↓

AUD 693- Externship in Audiology (218)

↓

**Special Clinical/Practicum Requirements**

To be engaged in any clinical practicum experience..., absence of active tuberculosis, annual flu shot, and a negative criminal background check are required. ~~Students must complete ... American Speech-Language Hearing Association.~~

Other Catalog Change

Page 167, 2018-19 Graduate Catalog

**Doctor of Physical Therapy**

↓

proof of Hepatitis B, rubella, mumps, rubeola, and varicella immunity  
annual flu shot and TB tests

↓

**Admission**

Admission to the D.P.T. is limited and competitive. To be assured consideration for admission to the D.P.T. program, prospective students must submit the all required documentation of clinical hours to Physical Therapy Centralized Application System (PTCAS) and the physical therapy program and all other completed application materials to the Graduate School application portals no later than October 15 for the following fall session. Interested students should view the PTCAS and D.P.T. admission websites. At <http://www.chhs.niu.edu/pt/dpt/admission.asp> Admission to the professional physical therapy program is based on the following criteria:

Completion of a Bachelor's degree from an accredited institution prior to matriculation

Completion of all prerequisite course work with a minimum 3.00 GPA prior to admission matriculation

Completion of a minimum of 50 hours of observation/volunteer/paid work in a physical therapy setting. These hours must be obtained in at least two different settings within four years of the time of application.

Competitive scores on the GRE General Test

Professional essay

Letters of reference

**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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

**SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog**

p. 43 of 86

An on-campus interview

~~A minimum 3.00 GPA (on a 4.00 scale) in the last 60 semester hours of undergraduate course work~~

~~A minimum 3.00 GPA (on a 4.00 scale) in the following prerequisite courses:~~

↓

~~A course in medical terminology~~

Other Catalog Change

Page 168, 2018-19 Graduate Catalog

**Doctor of Physical Therapy**

↓

**Program Requirements**

Students must complete a minimum of 107 semester hours from the following:

**AHPT 601 - Introduction to Physical Therapy Practice (2)**

AHPT 602 - Communication and Educational Skills for Physical Therapists (3)

AHPT 603 - Psychosocial Aspects of Physical Therapy (3)

**AHPT 604 - Movement Systems in Physical Therapy (2)**

AHPT 608 - Physical Therapy: Evidence-Based Practice (2)

AHPT 609 - Research Methods in Physical Therapy (3)

AHPT 610 - Foundations of Physical Therapy I (~~2~~3)

AHPT 611 - Foundations of Physical Therapy II (~~2~~3)

AHPT 612 - Foundations of Physical Therapy III (~~2~~3)

↓

AHPT 639 - Evaluation and Treatment of Musculoskeletal Disorders (~~3~~4)

↓

AHPT 709 - Applied Research Methods in Physical Therapy I (~~3~~2)

↓

AHPT 799 - Applied Research Methods in Physical Therapy II (~~3~~4)

↓

**School of Family and Consumer Sciences**

New Course

Page 179, 2018-19 Graduate Catalog

CIP Code: 42.2811

HDFS 785. SEX THERAPY (3). Basic knowledge, theory and interventions of sex therapy with diverse couples and individuals. Diagnosis, assessment, conceptualization and treatment of sexual issues and dysfunctions. PRQ: Consent of school.

Course Revisions

Page 178, 2018-19 Graduate Catalog

HDFS 633. INTERNSHIP IN COMMUNITY AGENCIES: MARRIAGE AND FAMILY THERAPY (1-

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 44 of 86

96). May be repeated to a maximum of 96 semester hours. ....

HDFS 639. PRACTICUM: FAMILY THERAPY (1-12). Under faculty .... Children and Family Services' (DCFS) policy. S/U grading. PRQ: Consent of school.

Other Catalog Change

Pages 173-74 2018-19 Graduate Catalog

**School of Family and Consumer Sciences (HDFS)**

↓

A student pursuing an advanced degree in the School of Family, ~~and Consumer, and Nutrition~~ Sciences is expected to meet the requirements of a major area ....

↓

Admission requirements ... study. Prior to initial registration, each student planning a major in family, ~~and consumer, and nutrition~~ sciences should confer with the graduate adviser.

↓

**Post Master's Certificates**

Medical Family Therapy and Counseling

~~Educator Licensure in Family and Consumer Sciences~~

**Master of Science in Applied Human Development and Family Sciences**

This major provides professional career enhancement for advanced graduate work and research, ~~secondary and~~ college teaching, and programming ....

↓

Within the major, there is also the opportunity to specialize in marriage and family therapy, ~~and leadership in aging studies.~~

↓

**Admission**

↓

An applicant ... A student may be required to remove deficiencies in the area of ~~applied human development and family sciences and child studies~~ by successfully completing designated courses...

The maximum combined ... Exceptions to these limits may be approved in special cases by the coordinator of the applied ~~human development and family sciences and child studies~~ faculty, provided that the Graduate School limit of transfer credit is not exceeded.

Other Catalog Change

Page 175, 2018-19 Graduate Catalog

**Specialization in Leadership in Aging Studies (33)**

↓

**Application Process**

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 45 of 86

↓

Two letters or recommendation ....

~~A declaration form for the specialization in leadership in aging studies. The PDF form can be found on the Human Development and Family Sciences website.~~

Other Catalog Change

Pages 175-76, 2018-19 Graduate Catalog

### Specialization in Marriage and Family Therapy

The specialization in ... human relationships. Through extensive course work, and clinical experience working with client couples, families, and individuals, and under the supervision by a Approved Supervisors of the American Association for Marriage and Family Therapy (AAMFT), students in the specialization learn to integrate theory and research while developing the clinical skills of marriage and family therapists. The sSpecialization prepares students to function in mental health, family service, hospital, business, and human social service settings, and upon graduation students have completed all requirements for associate membership in the American Association for Marriage and Family Therapy.

Upon graduation graduation, students have completed all requirements for a state associate marriage and family therapy license and for association membership in AAMFT. SMFT students graduate with a Master of Science in Applied Human Development and Family Sciences with a Specialization in Marriage and Family Therapy. Additional information about the specialization may be found on the FACS website.

### Application Process

The specialization in marriage and family therapy admits a limited number of students once a year with application review in the spring semester. Accepted applicants to begin the program in the following fall semester. The pPriority dDeadline for applications is January 15. Late applications will be considered if space is available. Applications for the Specialization specialization in Marriage marriage and Family family Therapy therapy are completed on-line through the Graduate School. The following documents are submitted to the Graduate School:

- Completed application
- Unofficial transcripts from all undergraduate and graduate institutions
- GRE Scores
- Statement of Purpose
- Three letters of recommendation
- Current resume/curriculum vita

Guidelines for the Statement of Purpose are provided on the website for applicants.

Application materials ... <http://www.chhs.niu.edu/fcs/marriage/index.shtml>.

There are two ... only if enrollment slots are available.

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 46 of 86

~~Except in extraordinary ...specialization.~~

**Admission**

After a review of the applications, qualified candidates are invited to an interview day in February. Under extraordinary circumstances, faculty may conduct a long-distance interview with a candidate. Admission decisions are made following the interview process. Students are accepted into the graduate major in Applied Human Development and Family Sciences. Graduates of the program receive a Master of Science in Applied Human Development and Family Science with a Specialization in Marriage and Family Therapy.

Students admitted to this graduate major are required to have 9 undergraduate semester hours in human development and family sciences including a course in:

Child or Lifespan Development

Family Relations

Family Theories or Child Development Theories (Upper Division)

Upon acceptance, the coordinator of Human Development and Family Sciences will notify candidates if there is a deficiency with the three required courses. Students are required to complete deficiency courses with a B or better by the end of their first semester in the SMFT Program. Failure to do so may result in removal from the program. Deficient courses may be taken at NIU or another institution.

~~An applicant is required to have a ... credit is not exceeded.~~

**Special Requirements for Practicum**

↓

**Requirements**

↓

HDFS 633 - Internship in Community Agencies: Marriage and Family Therapy (6)

↓

HDFS 784 - Theoretical Foundations of Family Therapy (3),

HDFS 785 - Sex Therapy (3)

Two of the following (6)

↓

HDFS 705 - Introduction to Medical Family Therapy and Counseling (3)

PHHE 506 - Dimensions of Human Sexuality (3)

Other Catalog Change

Pages 176-7, 2018-19 Graduate Catalog

**Family and Child Development (15)**

↓

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

**SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog**

p. 47 of 86

**Required Core (9)**

↓

HDFS 685 - Family Stress and Structural Diversity (3)

**Additional Requirements (6)**

Two of the following content courses (6)

Other Catalog Change

Page 177, 2018-19 Graduate Catalog

**Gerontology (18)**

**Certificate of Graduate Study**

The interdisciplinary ... university. A minimum GPA of 3.00 in all certificate courses, and completion of all certificate course work within six calendar years are required. ~~A student wishing to pursue this certificate must apply to the gerontology program.~~ 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 or School of Family and Consumer Sciences program faculty.

↓

**Leadership in Aging Services (18)**

**Certificate of Graduate Study**

This interdisciplinary certificate ... Administration in Illinois. ~~A student wishing to pursue this certificate must apply to the College of Health and Human Sciences.~~ 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 or School of Family and Consumer Sciences program faculty

**Primary Content Area (12)**

↓

Other Catalog Change

Page 163, 2018-19 Graduate Catalog

**Gerontology (18)**

↓

**Primary Content Area (9-15)**

↓

**Additional Requirements (9)**

Graduate courses focused on aging chosen with the approval of gerontology director.

ANTH 565 - Medical Anthropology (3)

~~CAHA 501—Adult Learning: Maturity Through Old Age (3)~~

~~CAHE HESA~~ CAHE 590<sup>1</sup> - Workshop in Adult and Higher Education and Student Affairs (3)

**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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

**SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog**

p. 48 of 86

**School of Health Studies**

**All University Section**

**Inter-College Interdisciplinary Certificates**

Other Catalog Change

Page 329, 2018-19 Graduate Catalog

**Certificates of Graduate Study**

**Homeland Security**

↓

**Cybersecurity Track (15)**

↓

Two of the following (6)

↓

PHHE 607 - **Public Health and** Health Services Management (3)

↓

**Health Sciences Track (16)**

Five of the following: (15)

↓

PHHE 605 - **Biostatistics in Public Health** (43)

PHHE 607 - **Public Health and** Health Services Management (3)

New Course

Page 185, 2018-19 Graduate Catalog

CIP Code: 44.0503

PHHE 665. PUBLIC HEALTH PROGRAM AND POLICY EVALUATION (3). Introduction to public health program and policy evaluation. Emphasis on practical application of knowledge learned, including the development of logic models, evaluation questions, and a comprehensive evaluation plan for a public health program or policy. Exploration of theoretical aspects of evaluation, including threats to validity, and a framework for developing public health evaluation plans. Involves an iterative preparation of an evaluation proposal for a public health program or policy selected by the student. PRQ: PHHE 605 or consent of school.

Course Revisions

Page 185, 2018-19 Graduate Catalog

PHHE 603. BEHAVIORAL AND SOCIAL ASPECTS OF PUBLIC HEALTH (3). Examination of ... communities. Introduction to strategies for ~~disease and injury prevention~~ **health promotion**, including an



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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 49 of 86

overview of needs assessment, public health-related theories and models, and the design of culturally relevant solutions such as policies, programs or interventions and theory for public health practice. Discussion of the relationships among concepts of health, disease, and values. PRQ: Consent of school.

PHHE 607. PUBLIC HEALTH AND HEALTH SERVICES MANAGEMENT (3). Analysis of techniques ... decision making, strategic planning, negotiation and mediation, and marketing, as well as and leadership and communication styles. Case studies demonstrate application of concepts. PRQ: Consent of school

PHHE 641. HEALTH DISPARITIES IN THE UNITED STATES (3). Exploration of social and cultural determinants of health from a systems thinking perspective. Topics include structural bias, social inequities and racism that undermine health and create challenges to achieving health equity at organizational, community and societal levels and health inequities. Includes the definition, and measurement, and amelioration of health disparities. Concentration predominantly on disparities based on gender, race/ethnicity, sexual orientation, socioeconomic status, country of birth, and geography, and their intersection.

PHHE 695. INTERNSHIP IN PUBLIC HEALTH AND HEALTH EDUCATION (1-95). Work individually in practical public health and health education situations under the guidance of an agency staff member and a university supervisor. May be repeated to a maximum of 12 5 semester hours. S/U grading. PRQ: Consent of school.

Other Catalog Change

Pages 180-83, 2018-19 Graduate Catalog

**Master of Science in Nutrition and Dietetics**

↓

**Requirements**

↓

Two to three of the following (5-6)

↓

PHHE 607 - Public Health and Health Services Management (3)

↓

**Master of Public Health (M.P.H.)**

↓

**Non-Thesis Option**

↓

**Requirements**

↓

PHHE 607 - Public Health and Health Services Management (3)

↓

**Public Health (16)**

↓

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

**SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog**

p. 50 of 86

**Requirements (13)**

↓

PHHE 607 - **Public Health and** Health Services Management (3)

↓

Other Catalog Change

Page 182, 2018-19 Graduate Catalog

**Master of Public Health (M.P.H.)**

↓

**Grading Policy**

M.P.H. students must earn a minimum grade of B- **minus** in each of the nine core courses (PHHE 601, PHHE 603, PHHE 605, PHHE 607, PHHE 609, PHHE 611, PHHE 613, PHHE 661, and PHHE 669) **and** in any required specialization courses (PHHE 621 and PHHE 631 for those specializing in Health Promotion, or PHHE 651, PHHE 653, and PHHE 655 for those specializing in Health Services Management).

Other Catalog Change

Page 182, 2018-19 Graduate Catalog

**Master of Public Health (M.P.H.)**

↓

**Non-Thesis Option**

↓

**Requirements**

↓

PHHE 695 - Internship in Public Health ~~and Health Education~~ (3-5)

**School of Interdisciplinary Health Professions**

**All University Section**

**A Guide to Reading This Catalog**

Other Catalog Change

Page 5, 2018-19 Graduate Catalog

**Course Designators**

↓

SEVI–Visual Impairments

**SIHP–School of Interdisciplinary Health Professions**

SOCI–Sociology

**Directory for Correspondence**

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 51 of 86

Other Catalog Change Page 14-5, 2018-19 Graduate Catalog

**Graduate Degree Programs, Specializations, and Departments**

↓

Health Sciences: See Interdisciplinary Health Professions

Health Services Management: See Health Studies

Health Studies: Jeanne Isabel James-Ciesla, interim chair of school

↓

Instructional Technology: See Educational Technology, Research and Assessment

Interdisciplinary Health Professions: Beverly Henry, interim chair of school

Kinesiology and Physical Education: Paul Carpenter, Ph.D., departmental director of graduate studies

↓

Rehabilitation Counseling: See Allied Health and Communicative Disorders Interdisciplinary Health Professions

↓

**School Section**

New Course Page 187, 2018-19 Graduate Catalog

CIP Code: 51.99

HSCI 530. WORKING WITH DIVERSE POPULATIONS IN HEALTH AND HUMAN SCIENCES (3). Examination of relationships among culture, health, and well-being. Investigation of historical, cultural, social, economic, political, and environmental factors that impact health behavior and health status of diverse groups. Exploration of strategies for culturally and linguistically appropriate service delivery addressing the needs of diverse populations. Content and activities to include professional strategies and interpersonal skills for teaching and supervision in the classroom, workplace, and clinical settings with diverse populations.

New Course Page 188, 2018-19 Graduate Catalog

CIP Code: 51.0799

HSCI 710. TEACHING IN THE HEALTH PROFESSIONS (1-3). Exploration of teaching philosophy, course design, teaching methods, and assessment practices applied to clinical or classroom settings. Topics include deliberate practice, accreditation standards, appreciative inquiry, or clinical skills assessment. Experiential learning through shadowing, coaching, or teaching tailored to student learning goals. **Students** **b**Build upon prior education course\_work or experiences. May be repeated up to 3 **credit-semester** hours. PRQ: Consent of school.

New Course Page 188, 2018-19 Graduate Catalog

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 52 of 86

CIP Code: 51. 99

SIHP 697. INDEPENDENT STUDY (1-6). Independent study under direction of a faculty member. May be repeated to a maximum of 6 semester hours. S/U grading may be used. PRQ: Consent of school.

New Course Page 188, 2018-19 Graduate Catalog

CIP Code: 51.2310

REHB 699. MASTER’S THESIS (1-6). May be repeated to a maximum of 6 semester hours. S/U [Grading](#) [grading](#) may be used. PRQ: Consent of school.

Other Catalog Change Page 186, 2018-19 Graduate Catalog

**School of Interdisciplinary Health Professions (HSCI, REHB, SIHP)**

Other Catalog Change Page 186, 2018-19 Graduate Catalog

**School of Interdisciplinary Health Professions**

↓

**Faculty**

↓

Noel Ysasi, Ph.D., CRC, University of Texas Rio Grande Valley, assistant professor

[NOTE: Faculty for the Ph.D. in Health Sciences include graduate faculty members from across the College of Health and Human Sciences.](#)

The School of Interdisciplinary Health Professions offers the majors in Health Sciences at both the master's and doctoral level, and Rehabilitation Counseling (M.S.) master's program. The M.S. degree program in health sciences prepares students for leadership roles in health-related professions. Throughout this 30-~~semester~~ semester-hour program, students learn about interdisciplinary communication skills, health-services quality measurement, culturally aware leadership and evidence-based analysis in order to effectively work in professional and academic environments. The Doctor of Philosophy in Health Sciences emphasizes an inter-professional orientation to research and practice. It seeks to educate students from a wide range of disciplines to teach, conduct research and practice in an ever more complex inter-professional world; it also seeks to respond to an increasing demand for faculty and practitioners who are prepared to function in fields grounded in information-driven, evidence-based practice. The rehabilitation counseling (M.S.) curriculum prepares students for careers ... Certification (CRCC).

Other Catalog Change Page 187, 2018-19 Graduate Catalog

**Master of Science in Rehabilitation Counseling**

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 53 of 86



### **Grading Policies for Clinical Courses**

Students must make ... will be dismissed from the graduate program.

### **Doctor of Philosophy in Health Sciences**

The college-wide Ph.D. program emphasizes an interprofessional orientation to research and practice as students work with [Graduate-graduate](#) faculty members from across the college. The Ph.D. prepares students from a wide range of health and human sciences fields to function effectively as scholars and researchers within academic and practice settings. Doctoral students participate in shared learning across online seminars and research tools courses by making connections to health topics from the perspectives of multiple disciplines. Students complete an individualized program of study that is tailored to individual needs before taking the candidacy examination and conducting a dissertation under the supervision of a dissertation director(s). The residency requirement is fulfilled through limited face-to-face meetings for core program courses.

### **Admission**

A student seeking admission to the Ph.D. program must be admitted to the Graduate School, submit three letters of recommendation and a personal statement. Scores on the GRE are waived for applicants who have earned a graduate degree with a GPA of 3.50 or higher from an accredited institution.

### **Course Requirements**

Completion of this degree requires a minimum of 45 semester hours of graduate course work at NIU beyond the graduate credits earned toward the student's master's degree.

### **Core Seminars (8)**

UHHS 710 - Scientific Underpinnings and Seminal Readings in the Health Sciences (3)

UHHS 720 - Contemporary Health Science Topics (2)

UHHS 760 - Knowledge Integration in the Health Sciences (3)

### **Research Tools Requirements (12)**

UHHS 730 - Research Design, Conduct, and Analysis in the Health Sciences I (3)

UHHS 731 - Research Design, Conduct, and Analysis in the Health Sciences II (3)

UHHS 740 - Data Analysis in the Health Sciences (3)

UHHS 750 - Research Positioning and Grantsmanship Skills (3)

### **Individualized Program of Study (12)**

All students are required to complete an individualized program of study related to their professional areas of interest. Proposed course work must be pre-approved by the student's adviser. Additional course work may be required.

### **Additional Requirements**

All students must complete a research ethics milestone prior to admission to the candidacy examination.

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 54 of 86

Students fulfill the requirement by demonstrating competency with ethical decision-making in the context of designing and implementing research for scientific and clinical communities. The research ethics training and assessment are available online.

**Candidacy Examination (1)**

UHHS 798 - Candidacy Examination (1)

A student must receive approval from his or her graduate committee to take the candidacy examination. The candidacy examination is a written examination based on the core courses and the student's individual program of study. Upon satisfactory completion of the candidacy examination the student is admitted to candidacy for the Ph.D. degree. The examining committee may allow a student who fails a candidacy exam to repeat it after a period of time determined by the committee. A student who fails the candidacy examination a second time or is not granted permission for a second attempt will not be permitted to continue work toward the doctorate and admission to the doctoral program is terminated.

**Doctoral Research and Dissertation (12)**

UHHS 799 - Doctoral Research and Dissertation (12)

**Oral Defense of Dissertation**

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

Note: This is not a new program, it is being moved from the college section.

**Department of Military Science**

Other Catalog Change

Page 189, 2018-19 Graduate Catalog

**Department of Military Science (MILS)**

↓

**Course List (Advanced Courses)**

Credit earned in military science is not applicable toward graduate degree requirements.

For a complete list of Military Science courses, please see the current undergraduate catalog.

301 - Leadership and Problem

**School of Nursing**

Course Revisions

Page 195, 2018-19 Graduate Catalog

**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  
Second Meeting 2018-19 Academic Year  
November 12, 2018**

**SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog**

p. 55 of 86

701. ADVANCED NURSING LEADERSHIP (3). .... PRQ: Admission to the ~~D.N.P.~~ nursing graduate program or consent of school.

704. CLINICAL PREVENTION FOR POPULATION HEALTH (3). .... PRQ: ~~NURS 701;~~ Admission to the nursing graduate program or consent of school.

706. INFORMATICS FOR EVIDENCE-BASED NURSING (3). .... PRQ: ~~NURS 702~~ Admission to the nursing graduate program or consent of school.

713. DNP PROJECT I: PRACTICUM (2-3)...

723. DNP PROJECT II: PRACTICUM (2-3)...

733. DNP PROJECT III: PRACTICUM (2-3)...

Other Catalog Change

Page 191, 2018-19 Graduate Catalog

**Master of Science in Nursing**



**Requirements**



**Core Courses – Required for all Nursing M.S. and Post-Bachelor’s D.N.P. Students (26-27)**

Other Catalog Change

Page 193, 2018-19 Graduate Catalog

**Doctor of Nursing Practice**



**Advanced Role Component Courses (49-52)**



See Requirements for Core Courses Required for all Nursing M.S. Students (26-27) AND



Other Catalog Change

Page 193, 2018-19 Graduate Catalog

**D.N.P. Leadership Component Courses (35-38)**



**Scholarly Project Courses for D.N.P (15-18)**



NURS 713. DNP PROJECT I: PRACTICUM (2-3).



NURS 723. DNP PROJECT II: PRACTICUM (2-3).



**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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

**SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog**

p. 56 of 86

NURS 733. DNP PROJECT III: PRACTICUM (2-3).

**COLLEGE OF LIBERAL ARTS AND SCIENCES**

**All University Section**

**Inter-College Interdisciplinary Certificates**

Other Catalog Change                      Page 330, 2018-19 Graduate Catalog

**Museum Studies (15-18)**

↓

ART 625/WGSTS 625X - Museums: Gender, Race and Class (3)

↓

**College Section**

Course Deletions                              Page 201, 2018-19 Graduate Catalog

LGBT 600. LESBIAN, GAY, BISEXUAL, AND TRANSGENDER STUDIES (3).

LGBT 602. INTERNSHIP (3).

LGBT 610X. RESEARCH IN WOMEN’S, GENDER, AND SEXUALITY STUDIES (3). *Crosslisted as WGST 610.*

LGBT 620. SPECIAL TOPICS IN LGBT STUDIES (3).

Course Deletion                              Page 202, 2018-19 Graduate Catalog

WGST 605. FEMINIST THEORY (3).

New Course                                      Page 202, 2018-19 Graduate Catalog

CIP: 05.0299

WGSS 605. FEMINIST AND QUEER THEORIES (3). Concepts, methods, and development of feminist and queer theories; systematic overview of schools of feminist theory and queer studies as they are grounded in different social identities and epistemological perspectives; implications of these theories for scholarly research and social change.

Course Revisions                              Page 201, 2018-19 Graduate Catalog

WGSTS 524. TOPICS IN GENDER AND STEM (3). ....



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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 57 of 86

WGSTS 530. SPECIAL TOPICS IN WOMEN'S AND GENDER, AND SEXUALITY STUDIES (3).  
....

WGSTS 534. LANGUAGE AND GENDER (3). ....

WGSTS 602. INTERNSHIP IN WOMEN'S AND GENDER, AND SEXUALITY STUDIES (3-6). ....

WGSTS 610. RESEARCH METHODS IN WOMEN'S, GENDER, AND SEXUALITY STUDIES (3).  
*Crosslisted as LGBT 610X.* Interdisciplinary ....

WGSTS 620. TOPICS IN WOMEN'S AND GENDER, AND SEXUALITY STUDIES (3). ....

WGSTS 625X. MUSEUMS: GENDER, RACE, AND CLASS (3). ....

WGSTS 639. INDEPENDENT STUDY IN WOMEN'S AND GENDER, AND SEXUALITY STUDIES  
(1-3). ....

Other Catalog Change

Page 197, 199, 2018-19 Graduate Catalog

**Law and Women's and Gender Studies**

↓

**Requirements (12)**

↓

~~CAHE HESA~~ CAHE 759 - Critical Feminist Pedagogies in Adult and Higher Education (3)

↓

**Women's and Gender Studies (12)**

↓

**Requirements (12)**

↓

~~CAHE HESA~~ CAHE 759 - Critical and Feminist Pedagogies in Adult and Higher Education (3)

↓

Other Catalog Change

Page 198-199, 2018-19 Graduate Catalog

**Law and Women's and Gender Studies**

↓

IV. One of the following (2-4) or an additional course from Section II

↓

HIST 502 - Gender and Sexuality in History (3)

~~HIST 513 - Family, Sexuality, and Society since 1400 (3)~~

HIST 573 - Topics in Women's History (3)

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 58 of 86

- ↓  
**Women's and Gender Studies (12)**  
**Requirements (12)**  
↓  
Two of the following (6)  
↓  
HIST 507 - Medieval Women (3)  
~~HIST 513 - Family, Sexuality, and Society Since 1400 (3)~~  
HIST 573 - Topics in Women's History (3)  
↓

Other Catalog Change

Page 197, 2018-19 Graduate Catalog

- Law and Women's and Gender Studies**  
↓  
**Requirements (12)**  
↓  
I. WGSTS 605 - **Feminist and Queer** Theories (3)  
↓  
II. One of the following (3-4)  
↓  
WGSTS 602<sup>3</sup> - Internship in Women's and Gender, **and Sexuality** Studies (3)  
↓  
IV. One of the following (2-4) or an additional course from Section II  
↓  
WGSTS 530 - Special Topics in Women's and Gender, **and Sexuality** Studies (3) (Requires advance approval of the director of Women's, Gender, and Sexuality Studies.)  
WGSTS 534 - ~~Women, Men, and Language~~ **and Gender** (3)  
WGSTS 610 - Research **Methods** in Women's, Gender, and Sexuality Studies (3)  
WGSTS 620<sup>5</sup> - Topics in Women's and Gender, **and Sexuality** Studies (3)  
WGSTS 625X - Museums: Gender, Race, and Class (3)  
**OR ART 625 - Museums: Gender, Race, and Class (3)**  
WGSTS 639<sup>5</sup> - Independent Study in Women's and Gender, **and Sexuality** Studies (1-3)

Other Catalog Change

Page 198, 2018-19 Graduate Catalog

**Lesbian, Gay, Bisexual, and Transgender, and Queer Studies (12)**  
[Note: Title change needs Pres. Freeman approval.]

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

This interdisciplinary certificate fosters research and teaching ... and methods in lesbian, gay, bisexual,

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 59 of 86

and transgender, and queer studies and their application ... ..

This certificate of graduate study is available to any graduate-level student in good standing. Students interested in pursuing this certificate are advised to ~~must~~ consult with the ~~coordinator of lesbian, gay, bisexual, and transgender studies for approval of the course of study~~ director of the Center for the Study of Women, Gender, and Sexuality or the program adviser as early as possible in their graduate studies to determine the program of courses to be used toward the certificate.

**Requirements (12)**

~~LGBT 600~~ WGSS 605 - Lesbian, Gay, Bisexual, Feminist and Transgender Studies Queer Theories (3)  
One of the following (3)

~~ILAS~~ WGSS 602 - Internship in Women, Gender, and Sexuality Studies (3-6), or an equivalent internship course approved by the coordinator or adviser. The internship experience must include activities related to LGBTQ+ Studies.

~~LGBT~~ WGSS 610X - Research Methods in Women's, Gender and Sexuality Studies (3)

Two of the following<sup>3</sup> (6)

↓

PHHE 506 - Dimensions of Human Sexuality (3)

~~WGST 605 - Feminist Theory (3)~~

WGSTS 620<sup>2</sup> - Topics in Women, 's and Gender, and Sexuality Studies (3)

Other Catalog Change

Page 199, 2018-19 Graduate Catalog

**Women's and Gender Studies (12)**

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

Women's and Gender Studies is an interdisciplinary program which ..., whose special 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 ... departments.

A student who wishes to pursue this certificate ... and the Women's and Gender Studies coordinator, or the program adviser. Students may earn transcript ... ..

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. Students interested in pursuing this certificate are advised to consult with the director of the Center for the Study of Women, Gender and Sexuality or the program adviser as early as possible in their graduate program studies to determine the program of courses to be used toward the certificate.

**Requirements (12)**

WGSTS 605 - Feminist and Queer Theories (3)

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 60 of 86

WGSTS 610 - Research Methods in Women's, Gender, and Sexuality Studies (3)

Two of the following (6)



CAHC 592<sup>1</sup> - Special Topics in Counseling (1-3)



ENGL 602D - Literary Theory and Criticism: Feminist Literary Theory and Criticism (3)



HDFS 600<sup>1</sup> - Seminar: In Contemporary Issues in Applied Human Development and Family Sciences (3 1-12)



HIST 610<sup>1</sup> - Reading Seminar in U.S. History (3)

~~LGBT 600 - Lesbian, Gay, Bisexual, and Transgender Studies (3)~~

MGMT 528 - Equal Opportunity and Employment (3)

NUTR 602 - Issues in Eating Disorders and Obesity (3)

NUTR 616 - Nutritional Factors in Obesity and Eating Disorders (3)

~~PHHE 506 - Dimensions of Human Sexuality (3)~~

PSYC 595<sup>1</sup> - Seminar in Special Topics (3)



WGSTS 524 - Topics in Gender and STEM (3)

WGSTS 530 - Special Topics in Women's and Gender, and Sexuality Studies (3)

WGSTS 534 - Language and Gender (3)

WGSTS 602 - Internship in Women's and Gender, and Sexuality Studies (3-6)

WGSTS 620 - Topics in Women's and Gender, and Sexuality Studies (3)

WGSTS 625X - Museums: Gender, Race, and Class (3)

OR ART 625 - Museums: Gender, Race, and Class (3)

WGSTS 639 - Independent Study in Women's and Gender, and Sexuality Studies (1-3)

Independent study and topics ... Center for the Study of Women, Gender and Sexuality or the program adviser, when substantial treatment of women's gender, and sexuality studies is included in the course.

Department of Biological Sciences

Other Catalog Change

Page 209, 2018-19 Graduate Catalog

**Master of Science in Biological Science**



**Specialization in Bioinformatics**



**Requirements**



Two of the following<sup>2</sup> (6-7)



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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

**SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog**

p. 61 of 86

~~STAT 573 535 - Statistical Methods and Models I Applied Regression Analysis (3)~~  
~~and STAT 573A - Statistical Computing Packages (1)~~  
~~STAT 574 - Statistical Methods and Models II (3)~~

**Specialization in Human Anatomical Sciences**

↓

Other Catalog Change

Page 211, 2018-19 Graduate Catalog

**Bioinformatics (16-17)**

↓

Two of the following<sup>2</sup> (6-7)

↓  
~~STAT 573 535 - Statistical Methods and Models I Applied Regression Analysis (3)~~  
~~and STAT 573A - Statistical Computing Packages (1)~~  
~~STAT 574 - Statistical Methods and Models II (3)~~

If the student has completed the equivalent of BIOS 567, ... ..

**Course List (BIOS)**

↓

**Department of Chemistry**

New Courses

Page 218, 2018-19 Graduate Catalog

CIP: 40.0501

616. SPECIAL TOPICS CHEMISTRY SEMINAR (1). Both CHEM 615 and CHEM 616 are required of thesis option master's and doctoral students each semester in residence except for summer session; they cannot be taken in the same semester. PRQ: Consent of department.

617. CANDIDACY (1). Preparation and defense of written and oral sections of the doctoral candidacy. Class taken only during terms when student is doing a doctoral candidacy examination. PRQ: Consent of department.

618. LITERATURE REVIEW (1). Preparation and presentation of comprehensive literature review on topic different from primary research area. Class must be taken within one year of successful completion of CHEM 617 examination. PRQ: CHEM 617 with a grade of B- or better.

691. SELECTED SKILLS IN CHEMISTRY AND BIOCHEMISTRY (1). Training in selected techniques in chemistry and biochemistry such as nuclear magnetic resonance, mass spectrometry, x-ray

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 62 of 86

crystallography, and computational chemistry. Course may be repeated up to a maximum of 6 semester hours. S/U grading. PRQ: Consent of department.

Other Catalog Change

Page 215, 2018-19 Graduate Catalog

**Master of Science in Chemistry**

Students who wish to enter the M.S. program should have a baccalaureate degree in a life, physical, or mathematical ... . These deficiencies must be satisfied with a grade of C or better during the first two semesters of enrollment in the program. University Honors students who graduate from Northern Illinois University with a baccalaureate degree in chemistry or a related area are guaranteed admission into the M.S. or Ph.D. program (with acceptable scores on entry tests for the latter) as space permits.

~~Prior to registration the student is required to take background examinations in the fields of analytical, inorganic, organic, and physical chemistry. These examinations are usually given a week before registration to aid the adviser in the preparation of a course of study for the student. A passing level has been established so that these examinations can also serve as proficiency examinations for required undergraduate courses. (Students will be informed in advance that undergraduate deficiencies may be satisfied in this manner.)~~

The background examination in general chemistry is required at the time of entering the program during the orientation weeks in January and August. All students must pass this exam with a normative score of 50% in order to hold a TA appointment in the department. Students failing to pass the exam must attend general chemistry lectures (CHEM 210 or CHEM 211) during their first semester, then retake the general chemistry examination at its next offering. Failure to pass the exam the second time will result in termination of the student's TA appointment.

The student must fulfill all requirements for the M.S. degree within five consecutive years from entry into the program.

↓

**Thesis Option**

A minimum of 30 semester hours of graduate work is required. The student must successfully complete a minimum of five courses (15 semester hours, excluding CHEM 615, CHEM 690, CHEM 698, and CHEM 699), of which at least 9 semester hours are to be in chemistry, for graduate credit. At least one of these courses must be CHEM 644, CHEM 645, or CHEM 646, or an equivalent physical chemistry graduate course. A minimum of two courses must be outside the primary area of study 14 semester hours, of which at least 12 must be from courses worth 3 or more credit-semester hours (acceptable courses include: CHEM 570 to 573; CHEM 600; CHEM 620 to CHEM 689). However, a student's research adviser may require additional course work inside or outside the department course offerings. Other courses can be taken if approved by the Graduate Program Committee. The remaining course hours may be fulfilled from the departmental (CHEM 616, CHEM 691) and university (e.g., UNIV 600) "skills" courses. The Graduate Program Committee will have a final say if a particular university course will qualify as a "skills"

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 63 of 86

course for the program. Only graduate courses from accredited institutions in which the student has earned a grade of B or better may be accepted towards an advanced degree, subject to approval of the department and the Graduate School.

Only graduate courses from accredited institutions in which the student has earned a grade of B or better may be accepted towards an advanced degree, subject to approval of the department and the Graduate School.

CHEM 615, Chemistry Seminar, or CHEM 616, Special Topics Chemistry Seminar, must be taken each semester unless a written waiver is given by the Director of Graduate Studies. CHEM 690, Graduate Seminar, must be taken the first two semesters of enrollment.

↓

**Essay Option**

A minimum of 36 semester hours of graduate work is required. The student must successfully complete a minimum of six courses for graduate credit (18 semester hours, excluding CHEM 615, CHEM 690, CHEM 698, CHEM 699, and CHEM 799), of which at least 12 semester hours are to be in chemistry. At least one of these courses must be CHEM 644, CHEM 645, or CHEM 646, or an equivalent physical chemistry graduate course. A minimum of two courses must be outside the primary area of study 15 semester hours, of which at least 12 hours must be from courses worth 3 or more credit hours. Acceptable courses include: CHEM 570 to 573; CHEM 600; CHEM 620 to CHEM 689. However, a student's research adviser may require additional course work inside or outside the department course offerings. Other courses can be taken if approved by the Graduate Program Committee. The remaining course hours may be fulfilled from the departmental (CHEM 616, CHEM 691) and university (e.g., UNIV 600) "skills" courses. The Graduate Program Committee will have a final say if a particular university course will qualify as a "skills" course for the program. Only graduate courses from accredited institutions in which the student has earned a grade of B or better may be accepted towards an advanced degree, subject to approval of the department and the Graduate School.

Only graduate courses from accredited institutions in which the student has earned a grade of B or better may be accepted towards an advanced degree, subject to approval of the department and the Graduate School.

CHEM 615, Chemistry Seminar, or CHEM 616, Special Topics Chemistry Seminar, must be taken each semester unless a written waiver is given by the Director of Graduate Studies. CHEM 690, Graduate Seminar, must be taken the first two semesters of enrollment.

Students earning an M.S. degree through the Essay Option must have passed the qualifying examination and the research oral (candidacy) examination described ... ..

~~CHEM 615, Chemistry Seminar, must be taken each semester unless a written waiver is given by the Director of Graduate Studies.~~

↓

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 64 of 86

### **Educator Licensure Option**

Students in this option ... discipline coordinator. Retention in the program requires adherence to Graduate School and educator licensure requirements and regulations.

A minimum of 30 semester hours of graduate course work to be determined by the department is required. In most cases, the number of semester hours will exceed 30. In addition, the student must successfully complete a minimum of four courses worth a total of (12 semester hours) for of graduate credit from courses numbered CHEM 505 to CHEM 700, excluding CHEM 590 to CHEM 599, CHEM 615, CHEM 690, CHEM 698, and CHEM 699. At least one of the four courses must be CHEM 644, CHEM 645, or CHEM 646, or an equivalent physical chemistry graduate course. Acceptable courses include: CHEM 505 to CHEM 700, excluding CHEM 590-599, CHEM 615, CHEM 616, CHEM 690, CHEM 691, CHEM 698, and CHEM 699.

CHEM 690, Graduate Seminar, must be taken the first two semesters of enrollment.

The student must pass a comprehensive examination in chemistry and chemistry education. Only graduate courses from accredited institutions ... ..

~~The student must pass a comprehensive examination in chemistry and chemistry education.~~

~~A minimum of 30 semester hours of graduate work to be determined by the department is required. In most cases, the number of semester hours will exceed 30. Retention in the program requires adherence to Graduate School and educator licensure requirements and regulations.~~

### **Doctor of Philosophy in Chemistry**

↓

Other Catalog Change

Page 216, 2018-19 Graduate Catalog

### **Master of Science in Chemistry**

↓

### **Educator Licensure Option**

↓

### **Industrial Chemistry Option**

A minimum of 30 semester hours of graduate work is required. The course list must be approved by the faculty ~~advisor~~ advisor. The student must successfully complete a minimum of five courses worth a total of 15 semester hours of graduate credit, of which at least 9 semester hours must be in chemistry. Acceptable courses include: CHEM 570-573; CHEM 600; CHEM 620 —689). Many of these courses will be available online *during the semesters when they are taught*. The remaining course work may be done outside the department.



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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 65 of 86

Only graduate courses from accredited institutions in which the student has earned a grade of B or better may be accepted towards an advanced degree, subject to approval of the department and the Graduate School.

A thesis incorporating the results of this research problem and successfully defended as part of a comprehensive oral examination is required. Research towards this thesis may be carried out at the place of industrial employment. In that case, a faculty co-adviser will be appointed. The ~~co-adviser~~ adviser must approve a research problem and ensure a published product (peer-reviewed publication, patent application, or presentation as part of a national conference proceedings).

CHEM 698, Independent Study, should be taken as soon as possible, with enrollment to continue each term until enrollment in CHEM 699, Master's Thesis, is begun.

Other Catalog Change

Page 216, 2018-19 Graduate Catalog

**Doctor of Philosophy in Chemistry**

↓

Students ... These deficiencies must be satisfied with a grade of C or better during the first two semesters of enrollment in the program. University Honors students who graduate from Northern Illinois University with a baccalaureate degree in chemistry or a related area are guaranteed admission into the M.S. or Ph.D. program (with acceptable scores on entry tests for the latter) as space permits.

↓

**Course Requirements**

Graduate students working for a doctoral degree must complete ~~at least 90~~ the number of semester hours of graduate work ~~beyond the baccalaureate degree~~ required by the NIU Graduate School (currently 72) with a minimum GPA of 3.00. This ~~will include~~ formal course work, independent study, research, and the dissertation, as specified on the student's program of courses.

A minimum of ... (INSET).”

A minimum of 19 semester hours of graduate credit must be earned by successfully passing graduate-level courses. At least 15 of the 19 must be from courses worth 3 or more semester hours. At least 12 of the 19 must be from the core courses listed at the ~~Department's~~ department's website. Suitable courses include the following: CHEM 570–573; CHEM 600; courses in the range CHEM 620–689, and CHEM 700. The remaining course hour requirement may be fulfilled from the departmental (CHEM 616, CHEM 691) and university (e.g., UNIV 600) “skills” courses, or by courses inside or outside the department course offerings as required by a student's research adviser. Approval from the Graduate Program Committee is required for a student to earn credit for any such course work. Further requirements for the nanoscience specialization are given in the catalog under “Specialization in Nanoscience.”

~~Only~~ Graduate courses from accredited ... the Graduate School.

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

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 66 of 86

CHEM 615, Chemistry Seminar, or CHEM 616, Special Topics Chemistry Seminar, must be taken each semester unless a written waiver is given by the Director of Graduate Studies. As part of CHEM 615 or CHEM 616, students must give an oral presentation of their research once a year. CHEM 690, Graduate Seminar, must be taken during the first two semesters of enrollment.

Within one year after successful completion of their candidacy exam, a student must give a seminar based on a comprehensive literature review of a topic different from their primary research area. This seminar will be the primary activity of CHEM 618 (1 semester hour). The seminar will be observed and evaluated by the members of the student's candidacy examination committee. The candidacy examination committee chair will enter the student's grade for CHEM 618.

↓

**Examinations and Associated Committees**

The background examinations are required at the time of entering the program (described above in the requirements for the master's degree) in general chemistry is required at the time of entering the program during the orientation weeks in January and August. All students must pass this exam with a normative score of 50% in order to hold a TA appointment in the department. Students failing to pass the exam must attend general chemistry lectures (CHEM 210 or CHEM 211) during their first semester, then retake the general chemistry examination at its next offering. Failure to pass the exam the second time will result in termination of the students's TA appointment.

A written qualifying examination must be satisfactorily completed in the primary area. This examination will test comprehensive knowledge of the area at the graduate level. Faculty in each area will establish the graduate course(s) that will contribute towards the material upon which the examination is based. The examination will be based on three "core" graduate courses (the list is available in the department) that will contribute towards the examination material. If a student desires to substitute a single different graduate course for a core course for the examination, he or she must petition the Graduate Program Committee in writing. The qualifying examination must be taken no later than the first offering after completion of the fourth semester of enrollment as a graduate student. Students must have a GPA of at least 3.20 in previous graduate work to attempt the examination. A prospective doctoral candidate who has received an M.S. ... Failure on the second attempt will terminate further work toward the doctorate but not the master's M.S. degree.

Within one year of passing the qualifying examination in the primary field, the student must complete a research oral examination on his or her candidacy research examination on the student's field of research encompassing the background literature in the area, the current state of the student's research, and the proposed direction of the research. The candidacy examination committee, in consultation with the student and research advisor, will be formed from at least two faculty in addition to the student's adviser(s) representing the primary area and a secondary area and will constitute be included as part of the student's examining committee for all future examinations, with the addition of an extradepartmental representative for the final dissertation oral defense. The student's research adviser will chair the research oral committee.

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 67 of 86

~~This examination will serve as the admission to candidacy examination.~~ From the committee members, the Graduate Program Committee, in consultation with the research ~~advisor~~ adviser(s), will select the examination committee chair, for which position the student's adviser(s) are ineligible. The candidacy examination will consist of two parts. The written part will include a detailed survey of the background literature in the area, the current state of the student's research, and the proposed direction of the research. This document must be at least ~~thirty~~ 30 pages in graduate school dissertation format and will serve as the foundation for the future thesis/dissertation. It must be given to the committee at least two weeks prior to the examination date. The oral part will include a 45-minute presentation by the student based on their current and future research followed by questions from the committee. The combined written/oral candidacy examination will have a designed course number, CHEM 617 (1 semester hour). The grade will be entered by the examination committee chair. A student who fails to pass this examination with a grade of B- or above must retake it no earlier than four nor later than six months after the first attempt. Failure on the second attempt will terminate further work toward the doctorate degree.

~~Each doctoral candidate will give an oral presentation of her or his research once a year. The student's examining committee will evaluate the presentation and inform the student of its opinion in writing.~~

Within one year after successful completion of their candidacy exam, a student must give a seminar based on a comprehensive literature review of a topic different from their primary research area. This seminar will be the primary activity of CHEM 618 (1 semester hour). The seminar will be observed and evaluated by the members of the student's candidacy examination committee. The candidacy examination committee chair will enter the student's grade for CHEM 618.

Following completion of the literature review, the student must form a Ph. D. examining committee incorporating the candidacy examination committee and additional members as may be required by department or Graduate School policy. The research director(s) shall act as the chair (co-chairs) of the Ph.D. examining committee. Each post-candidacy doctoral candidate must give an oral presentation of her or his research once a year. The student's Ph.D. examining committee will evaluate the presentation and inform the student of its opinion in writing.

Appeals against dismissal for failure to ... The decision of the latter shall be final.

↓

**Specialization in Nanoscience**

↓

Students ... the student's transcript.

~~Since the Institute of Nanoscience, ... departments.~~

Students interested in pursuing this ... to be used for the specialization ~~and the director of the INSET for additional information about this program.~~

~~This interdisciplinary Ph.D. ... responsibilities.~~

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 68 of 86

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### Requirements for the Specialization in Nanoscience within the Ph.D. in Chemistry

A student can complete a specialization in nanoscience (nanochemistry) within the Ph.D. program in chemistry. A minimum of eight courses (24 19 semester hours, excluding CHEM 615, CHEM 690, CHEM 698, CHEM 699, and CHEM 799) must be taken for graduate credit of graduate credit must be earned by successfully passing graduate-level courses. At least 12 semester hours must be in chemistry.

Students must complete:

#### Core courses (9)

↓

CHEM 700G - Selected Topics in Chemistry: Nanoscience (1-3)

Students must take 3 semester hours in this course.

#### Distribution requirements (6)

↓

PHYS 790A - Special Topics in Physics: Solid State Physics (3 1-6)

Students must take 3 semester hours in this course.

The remaining 4 semester-hour requirement may be fulfilled from the departmental (CHEM 616, CHEM 691) and university (e.g., UNIV 600) “skills” courses, or by courses inside or outside the department course offerings as required by a student’s research adviser. Approval from the Graduate Program Committee is required for a student to earn credit for any such course work.

### Department of Communication

Course Revision

Page 222, 2018-19 Graduate Catalog

JOUR 652. SEMINAR IN MEDIA CONVERGENCE (3). Development, structure, Philosophy and theory future of the intersection of media and technology in relation to the production, distribution, and consumption of content print broadcast online journalism. Examination of how news media have changed and are changing, with focus on economic, political, and social systems the evolution of media in conjunction with the progression of technology and the individual, organizational, and societal implications. Advanced techniques for reporting, producing, and managing news for multiple platforms.

### Department of Economics

New Course

Page 232, 2018-19 Graduate Catalog

CIP: 45.0601

691. RESEARCH TOOLS FOR ECONOMISTS (3). Introduction for graduate students in economics to

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 69 of 86

the software applications, programing, and basic computational techniques needed to be productive researchers in economics.

Course Revision

Page 231, 2018-19 Graduate Catalog

584X. FINANCIAL DERIVATIVES (3). ~~Crosslisted with STAT 584.~~ Review of financial derivatives including futures, European and American options, and Exotic options. Greeks, trading and hedging strategies. Pricing derivative securities with appropriate boundary conditions, including Black-Scholes formula, binomial trees, lattice models and finite difference methods. Simulation and variance reduction techniques. Interest rate models. Covers the learning outcomes regarding financial models in the exam MFE of the Society of Actuaries (SOA), which is also the Exam 3F of the Casualty Actuarial Society (CAS). PRQ: STAT 583 or eConsent of department.

Other Catalog Change

Page 229, 2018-19 Graduate Catalog

**Master of Arts in Economics**

↓

The M.A. program in economics requires a minimum of 30 semester hours of graduate credit. The core courses have the prerequisites of ECON 590 - Economic Statistics and Econometrics (3) and ECON 591 - Mathematical Methods for Economics (3). Students are highly encouraged to take those courses as part of their graduate studies regardless of their background.

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**Course Requirements**

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ECON 690 - Econometrics I (3) ~~A. Econometrics~~

ECON 691 - Research Tools for Economists (3)

ECON 692A - Methods in Economics: Econometrics (1-2)

ECON 699A - Master's Research Component; Master's Thesis (1-6),

OR ECON 699B - Master's Research Component; Master's Research Paper (3),

OR a substantial research paper written in a 500- or 600-level economics course and approved by the professor teaching the course.

Students must choose at least 17 credit elective semester hours from courses numbered 500 or greater and only six-6 of those 17 credits-semester hours may be from outside the department with the approval of the Director of Graduate Studies.

Credits from ECON 590, ECON 591, and ECON 798 can not be counted toward the 17 semester hours of electives.

~~Students with an interest in ... field of study offered outside the department.~~

**Students with an interest in the Concentration in Financial Economics**

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 70 of 86

Students may earn a Concentration in Financial Economics by taking the following courses as part of their 17 hours of electives. ~~are expected to complete the following courses: ECON 584, ECON 740, ECON 742, ECON 791 and STAT 583.~~

ECON 584 - Financial Derivatives (3)  
ECON 740 - Financial Economics I (3)  
ECON 743 - Financial Economics II (3)  
ECON 791 - Computational Economics (2)  
STAT 601 - Stochastic Processes II (3)

#### Comprehensive Examinations

↓

Other Catalog Change

Graduate Catalog

#### Research-Tool Requirement

↓

#### 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 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 of Statistics.

STAT 515 - Statistical Computing (3)  
STAT 610 - Theory of Statistics I (3)  
STAT 611 - Theory of Statistics II (3)  
Two STAT courses 500 level or above (6)  
Two STAT courses 600 level or above (6)

#### Admission to Candidacy

↓

Other Catalog Change

Page 229-230, 2018-19 Graduate Catalog

#### Doctor of Philosophy in Economics

↓

#### Course Requirements

All doctoral students must satisfactorily complete a minimum of 60 semester hours of graduate course work, and no more than 12 credit-semester hours may be from 500-level courses, including ECON 648, Introduction to Game Theory (3), ECON 690, Econometrics I (3), ... equivalents will normally be required

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 71 of 86

~~to do so.~~

~~In addition, each student must take ... work in other applied fields may be obtained by consulting the department's director of graduate studies.~~

~~All doctoral students must earn at ... toward the Ph.D. from 500-level courses.~~

**Prerequisites:**

ECON 590 - Economic Statistics and Econometrics (3)  
ECON 591 - Mathematical Methods for Economics (3)  
ECON 660 - Microeconomic Analysis I (3)  
ECON 661 - Macroeconomic Analysis II (3)

**Core Courses:**

ECON 648 - Introduction to Game Theory (3)  
ECON 690 - Econometrics I (3)  
ECON 691 - Research Tools for Economics (3)  
ECON 692A - Methods in Economics: Econometrics (1)  
ECON 760 - Microeconomic Analysis II (3)  
ECON 761 - Macroeconomic Analysis II (3)  
ECON 796 - Research Seminar in Economics (3)  
ECON 798 - Current ~~research~~ Research Colloquium (8)  
ECON 799 - ~~Doctoral Dissertation~~ Research and Dissertation (12)

**Field Requirements**

Student must complete two of the following fields:

**Labor Economics**

ECON 700 - Labor Market Analysis I (3)  
ECON 701 - Labor Market Analysis II (3)

**Financial Economics**

ECON 740 - Financial Economics I (3)  
ECON ~~742-743~~ - Financial Economics II (3)

**Public Sector Economics**

ECON 750 - Public Sector Economics I (3)  
ECON 751 - Public Sector Economics II (3)

**Econometrics**

ECON 790 - Econometrics II (3)  
ECON 793 - Financial and Time-Series Econometrics (3)

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 72 of 86

Course work in other applied fields may be obtained by consulting the department's Director of Graduate Studies.

**Research-Tool Requirement**

The Department of Economics research-tool requirement is fulfilled by successfully completing ECON 590, ECON 591, ECON 690, ECON 691, and ECON 692A, which are required in the doctoral program.

**Admission to Candidacy**

↓

After successfully ... (ECON 796) to write a professional and original research paper in one of his or her their fields of study under the guidance of a research adviser chosen by the student. This paper generally serves as a basis for the student's dissertation. The paper will be evaluated by the research adviser and two additional faculty members approved by the research adviser a committee of three faculty members. Upon receiving a satisfactory evaluation, the student will be admitted to candidacy. The Ph.D. research paper must be successfully evaluated within one year of the initial enrollment in ECON 796 and must will be presented in the weekly research seminar (ECON 798) within one year after completing course work for the applied fields. The student must enroll in ECON 796 every semester until he or she has completed the Ph.D. Research Paper and the presentation in ECON 798. Failure to complete the Ph.D. Research Paper and Presentation within one year after the initial enrollment in ECON 796, completing the course work for the applied fields will result in dismissal from the doctoral program. Under exceptional circumstances, the student and their research adviser may submit a written request to the department's Graduate Committee requesting an extension of this time limit this time limit may be extended by the department's Graduate Committee.

Other Catalog Change

Page 230, 2018-19 Graduate Catalog

**Financial Engineering (15)**

Coordinator: Jeremy Groves, Director of Graduate Studies, Department of Economics

↓

**Requirements (9)**

~~STAT 583—Stochastic Processes I (4)~~

ECON 584X - Financial Derivatives (3)

~~OR STAT 584—Financial Derivative for Actuaries (3)~~

ECON 791 - Computational Economics (2)

STAT 601 - Stochastic Processes (3)

(MATH 535 - Numerical Analysis may be substituted for ECON 791 with consent of department.)

**Electives (6)**

↓

Department of English



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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 73 of 86

New Course

Page 239, 2018-19 Graduate Catalog

CIP: 23.1303

**General**

704. PUBLICATION AND PROFESSIONALIZATION IN ENGLISH STUDIES (3). Experience in producing professional written work for submission to professional journals in the field of English. Professional development in English studies including presentation and networking skills, reviewing academic books, producing vitas, and negotiating the academic job market. PRQ: Must be currently enrolled in the Ph.D. program in English.

Other Catalog Change

Page 234, 2018-19 Graduate Catalog

**Master of Arts in English**

The Department of English offers ...requires 36 semester hours. All students pursuing the M.A. in English are required to take **have the option of taking** a final comprehensive examination **or writing a thesis** after completing a minimum of 24 semester hours in the Department of English.

Students pursuing the M.A. ...; rhetoric and ~~professional~~ writing; ....

↓

**Areas of Study**

↓

**Rhetoric and Professional Writing**

ENGL 610 - Rhetoric of Prose Composition (3)

ENGL 625 - Methods of Research in Professional Writing (3)

~~ENGL 699 - Master's Thesis (3)~~

Course work from the following (9)

ENGL 609 - Creative Writing (3)

~~ENGL 624 - Professional Writing Institute (1-6)~~

ENGL 626 - Technical Writing (3)

↓

Two of the following (6)

↓

ENGL 631 - Topics in Professional Writing (3)

**ENGL 700 - Topics in the Teaching of College English (3)**

ENGL 703 - Seminar: Rhetorical Studies (3)

↓

Electives (0-6 **3-9**)

Other Catalog Change

Page 237, 2018-19 Graduate Catalog

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 74 of 86

### Doctor of Philosophy in English

↓

A graduate faculty member, .... Full-time students should be able to complete all the requirements for the doctoral degree in five years ~~beyond the baccalaureate degree or four years~~ beyond the master's degree.

↓

### Core Requirements (9 15)

↓

Issues in Criticism (3):

↓

ENGL 602D - Literary Theory and Criticism: Feminist Literary Theory and Criticism (3)

~~ENGL 603 - Traditions in Written Rhetoric (3)~~

↓

History of the Language (3):

↓

Rhetoric (3):

ENGL 603 - Traditions in Written Rhetoric (3)

ENGL 610 - Rhetoric of Prose Composition (3)

ENGL 630 - Theory and Research in Professional Writing (3)

Linguistics (3):

ENGL 615 - Descriptive English Linguistics (3)

ENGL 617 - Phonology (3)

ENGL 618 - Syntax (3)

ENGL 620 - Semantics (3)

ENGL 622 - Theories and Methods of Teaching English to Speakers of Other Languages (3)

ENGL 623 - Second Language Acquisition (3)

ENGL 633 - Pragmatics and Discourse (3)

Area of Specialization (12)

Courses to be determined by student in consultation with adviser.

Electives (3)

Electives could constitute a secondary area of specialization depending on the individual student's interests.

~~British and American Literature (18)~~

~~At least one course from each of the following groups~~

~~Medieval:~~

↓

~~ENGL 783 - Seminar: 20<sup>th</sup> Century American Literature (3)~~

~~Language, Linguistics, and Rhetoric (9)~~

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 75 of 86

~~At least one course from each of the following groups~~

~~Language/Linguistics:~~

~~ENGL 606—Morphology (3)~~

~~↓~~

~~ENGL 703—Seminar: Rhetorical Studies (3)~~

**Foreign Language Requirement**

↓

**Dissertation**

Candidates must write a dissertation that contributes to literary or linguistic knowledge of literature, linguistics, rhetoric, or English education, and exhibits original ....

**Department of Geographic and Atmospheric Sciences**

Course Revision

Page 245, 2018-19 Graduate Catalog

GEOG 556. FUNDAMENTALS OF MAPPING (3). For graduate students with little formal background in mapping. An introduction to mapping, with an emphasis on application in the geographic sciences. Concepts of maps as models, tools of visualization, and forms of graphic communication are introduced. Processes of map production, including imagery and surveying. Principles of map design.

Other Catalog Change

Page 244, 2018-19 Graduate Catalog

**Geographic Information Analysis (16-18)**

↓

Course work from the following (16-18)

↓

GEOG 690 - Community Geography (3)

**GEOG 761 - Advanced Spatial Modeling and Regression Techniques (3)**

GEOG 771J - Independent Research: Methods and Techniques (1-3)

↓

**Department of History**

Course Deletions

Page 258, 2018-19 Graduate Catalog

HIST 513. FAMILY, SEXUALITY, AND SOCIETY SINCE 1400 (3).

HIST 524. HABSBURG MONARCHY, 1815-1918 (3).

HIST 526. EAST CENTRAL EUROPE, 1914-PRESENT (3).

HIST 578. AMERICAN LEGAL HISTORY TO 1865 (3).

HIST 579. AMERICAN LEGAL HISTORY SINCE 1865 (3).

HIST 601. QUANTITATIVE METHODS FOR HISTORICAL SOCIAL ANALYSIS (3).

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 76 of 86

New Course

Page 257, 2018-19 Graduate Catalog

CIP: 54.0101

601. DIGITAL HISTORY (3). Introduction to digital history methods, tools, and practices such as text mining, data mining, data curation, document digitization, database construction, data visualization, digital mapping, and related digital approaches used to analyze historical societies and cultures.

Course Revision

Page 259, 2018-19 Graduate Catalog

HIST 518. MODERN EUROPEAN CULTURAL HISTORY (3). Intellectual foundations and cultural dimensions of European modernity. Subjects include the visual arts, literature, popular and mass culture, intellectual responses to violence, cultural representations of race and gender identity, with particular focus on the modern self, mass culture, consumer society, the avant-garde, and the intersection of culture and politics.

Course Revision

Page 260, 2018-19 Graduate Catalog

574. HISTORY OF IMMIGRATION IN THE UNITED STATES AND ETHNICITY (3). Survey of the nature and impact of immigration in United States American history from the colonial era to the present, focusing on ethnic group origins, persistence, modification, and interaction. Includes comparative analysis of European, Latino, and Asian immigration; law and policy; labor and economics; Examination of assimilation, acculturation, and accommodation theories; nativism and xenophobia; refugees and migrants; class, ethnicity, gender, and race; and immigrant communities and identities immigration legislation, multiculturalism, and minority relations.

Department of Mathematical Sciences, Division of Statistics

All University Section

Inter-College Interdisciplinary Certificates

Other Catalog Change

Page 329, 2018-19 Graduate Catalog

**Homeland Security**

↓

**Environmental and Hazards Risk Assessment Track (15-18)**

↓

STAT 570 500 - Introduction to Probability Theory (3)

Four of the following with at least one chosen from outside the division of statistics (12-15)

↓

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 77 of 86

- STAT 578 ~~538~~ - ~~Statistical Methods~~ ~~Applied Analysis~~ of ~~Time Series~~ Forecasting (3)  
STAT 581 - ~~Probabilistic Foundations of Actuarial Science~~ (3)  
STAT 665 ~~635~~ - Regression Analysis (3)

Department/Division Section

Course Deletions

Page 269, 2018-19 Graduate Catalog

- STAT 550. BASIC PROBABILITY MODELS AND STATISTICAL INFERENCE (3).  
STAT 573A. STATISTICAL COMPUTING PACKAGES (1).  
STAT 574. STATISTICAL METHODS AND MODELS II (3).  
STAT 579. PRACTICE OF BAYESIAN STATISTICS (3).  
STAT 581. PROBABILISTIC FOUNDATIONS OF ACTUARIAL SCIENCE (3).  
STAT 583. STOCHASTIC PROCESSES I (4).  
STAT 584. FINANCIAL DERIVATIVES FOR ACTUARIES (3). *Crosslisted with ECON 584X.*  
STAT 585. LIFE CONTINGENCIES AND PAYMENT MODELS I (3).  
STAT 586. LIFE CONTINGENCIES AND PAYMENT MODELS II (3).  
STAT 591. PROGRAMMING AND COMPUTING IN STATISTICS (3)  
STAT 668. METHODS IN BIostatISTICS (3).  
STAT 669. METHODS FOR QUALITY CONTROL AND IMPROVEMENT (3).  
STAT 672. THEORY OF STATISTICS (3).  
STAT 674. DESIGN AND ANALYSIS OF EXPERIMENTS (3).  
STAT 677. SAMPLING TECHNIQUES (3).  
STAT 679. ADVANCED STATISTICAL METHODS (3).  
STAT 785. ASYMPTOTIC THEORY OF STATISTICS (3).

New Courses

Page 269, 2018-19 Graduate Catalog

CIP: 27.0502

- STAT 511. MATHEMATICAL STATISTICS II (3). Principles of statistical hypothesis testing including the likelihood ratio test, uniformly most powerful tests and Bayesian testing techniques, theory of linear models including multiple linear regression and ANOVA. PRQ: STAT 510 [or consent of division](#).

New Courses

Page 269, 2018-19 Graduate Catalog

CIP: 27.0501

- STAT 515. STATISTICAL COMPUTING (3). Theory and assessment of commonly used numerical methods in statistical research such as (a) numerical optimization: Newton-Raphson, quasi-Newton, and other methods; (b) numerical integration: adaptive methods, Gauss quadrature, Monte Carlo; (c) Monte Carlo simulation: algorithms and methods for non-standard probability distributions; (d) numerical linear

**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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

**SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog**

p. 78 of 86

algebra: solving linear and non-linear systems of equations, SVD, Cholesky and other decompositions; (e) numerical roundoff and computer representation of numbers; (f) possibly numerical inversions of probability generating functions and Laplace transforms. PRQ: STAT 510, and either CSCI 230 or CSCI 240, or consent of the division.

STAT 517. APPLIED STATISTICAL LEARNING (3). Modern statistical methods for supervised and unsupervised learning with an emphasis on model assessment, selection, and regularization. Practical problems are solved using statistical software packages. A particular emphasis is placed on high dimensional problems. PRQ: STAT 510 or consent of division.

STAT 536. DESIGN AND ANALYSIS OF EXPERIMENTS (3). Design and analysis of single, multifactor, factorial, nested, and randomized block designs. PRQ: STAT 535 [or consent of division](#).

STAT 537. CATEGORICAL DATA ANALYSIS (3). Contingency tables. Poisson, binomial, and multinomial regression techniques. PRQ: STAT 535 [or consent of division](#).

STAT 610. THEORY OF STATISTICS I (3). Axiomatic foundations of probability, random variables and vectors, expectation, families of distributions, and transformations of random variables and vectors, convergence of distributions, convergence of random variables, derived distributions, distribution of the sample mean and variance. PRQ: STAT 500 or consent of the division.

STAT 611. THEORY OF STATISTICS II (3). Principles of data reduction, sufficiency, point estimation including method of moments, Bayesian and likelihood methods, evaluation of point estimators, developing and evaluating statistical hypothesis tests including likelihood ratio and Bayesian tests, interval estimation, asymptotic considerations. PRQ: STAT 610 or consent of the division.

STAT 617. STATISTICAL LEARNING (3). Supervised learning algorithms such as classification, regression, splines, lasso and other shrinkage methods, bootstrap, boosting, tree based methods and support vector machines, and unsupervised learning algorithms such as clustering and principal components analysis. PRQ: STAT 510 or STAT 537 or consent of division.

STAT 639. SURVIVAL ANALYSIS (3). Censoring, Kaplan-Meier estimator, log-rank tests, Cox proportional hazards and accelerated failure time regression models, diagnostics, competing risks and frailty models. PRQ: STAT 510 or consent of division.

STAT 640. LONGITUDINAL DATA ANALYSIS (3). Repeated measure ANOVA and MANOVA, linear mixed models, generalized linear mixed models, generalized estimating equations. Possible additional topics include analysis of data from crossover designs, and statistical validation of questionnaires. PRQ: STAT 510 and STAT 535, or consent of division.

STAT 642. QUANTITATIVE RISK MANAGEMENT (3). Risk measures; statistical methods in extreme value theory; multivariate distributions and dependence; elliptical distributions and copulas; credit risk

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 79 of 86

modeling; operational risk and insurance analytics. PRQ: STAT 500 or consent of division.

STAT 644. GENERALIZED LINEAR MODELS (3). Topics on generalized linear models, such as the exponential family of distributions, maximum likelihood estimation and inference, normal linear models, logistic regression for binary outcomes, nominal and ordinal logistic models, and Poisson regression and log-linear models. PRQ: STAT 611 or consent of division.

Course Revisions

Page 269, 2018-19 Graduate Catalog

STAT ~~570~~ 500. INTRODUCTION TO PROBABILITY THEORY (3). Includes probability spaces, random variables, discrete, ... . PRQ: MATH 232 and STAT 350, or consent of ~~division~~ department. CRQ: MATH 240 or consent of division.

STAT ~~572~~ 510. INTRODUCTION TO MATHEMATICAL STATISTICS I (3). Includes ~~d~~ Distributions of functions of random variables, laws of large numbers, central limit theorem, interval estimation, sufficiency, completeness, point estimation, and principles of Bayesian estimation statistical hypotheses, analysis of variance, and the multivariate normal distribution. PRQ: STAT 400 or ACSC 400X, or STAT ~~570~~ 500; or consent of division.

STAT ~~573~~ 535. STATISTICAL METHODS AND MODELS I APPLIED REGRESSION ANALYSIS (3). A first course in statistical methods and models including In-depth exploratory data analysis and graphical techniques, and statistical methods for regression analysis, experimental design, and basic sampling techniques. Extensive use of statistical computer packages. Includes techniques for model selection, assessment of influential observations, and verification of model assumptions. PRQ: MATH 211 and STAT ~~304~~ 300, or STAT 350, or consent of division. CRQ: STAT ~~573A~~.

STAT ~~578~~ 538. STATISTICAL METHODS APPLIED ANALYSIS OF TIME SERIES FORECASTING (3). Introduction to forecasting including use of regression in forecasting; Removal and estimation of trend and seasonality; exponential smoothing; stochastic time series models; stochastic difference equations; autoregressive, moving average, and mixed models; model identification and estimation; diagnostic checking; and the use of time series models in forecasting. PRQ: STAT ~~573~~ 535 or consent of division.

STAT ~~665~~ 635. REGRESSION ANALYSIS (3). Simple and multiple linear regression, estimation, confidence intervals and tests, and prediction. Theoretical analysis of the effect of departures from assumptions. Theoretical development of Diagnostic methods using residuals, transformations, outliers, and influence analysis. Polynomial regression, stepwise variable selection, and collinearity. Remedies for departures from assumptions. Theory of model selection. Regularization methods including ridge regression and lasso techniques. PRQ: STAT ~~574~~ 611 or consent of division.

STAT ~~666~~ 637. MODELS FOR DISCRETE MULTIVARIATE DATA ANALYSIS (3). A first course in the analysis ... . Bayesian analysis of categorical data. In addition, multivariate version of Binomial and

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 80 of 86

Poisson distribution will be reviewed. PRQ: STAT 572 510 and STAT 574 537, or consent of division.

STAT 667. RELIABILITY AND LIFE TESTING (3). Survival function, ... .. PRQ: STAT 572 510 and STAT 574, or consent of division.

STAT 670 600. PROBABILITY THEORY (3). Review of measures, measurable ... .. PRQ: MATH 630 and STAT 570 500, or consent of division.

STAT 674 601. STOCHASTIC PROCESSES II (3). Markov chains ... .. PRQ: STAT 670 600 or consent of division.

STAT 673 643. LINEAR MODELS (3). Theory of linear models ... .. PRQ: STAT 572 and STAT 574, or consent of division. CRQ: STAT 611 or consent of division.

STAT 675 645. MULTIVARIATE METHODS OF STATISTICS (3). Introduction to the techniques ... .. PRQ: STAT 510 572 or STAT 574, or consent of division.

STAT 676 646. DISTRIBUTION-FREE NON-PARAMETRIC STATISTICS (3). Survey of nonparametric statistical techniques and their logical foundations including the distributions of order statistics and ranks, distribution free statistics, tests of hypotheses, confidence intervals and Hodges-Lehmann estimators for one-sample, two-sample, and paired sample location problems, the two-sample dispersion problem, analysis of one-way and two-way layouts, tests of independence, goodness-of-fit tests, linear rank statistics, and U-statistics. Asymptotic relative efficiency. Nonparametric density estimation and regression, kernel methods, bandwidth selection, roughness penalties. Nonparametric resampling methods, standard error estimation, bootstrap confidence intervals, bootstrap tests. Nonparametric observed confidence levels. PRQ: STAT 611 572 or STAT 574, or consent of division.

STAT 678 638. TIME SERIES ANALYSIS (3). Models for analysis ... .. PRQ: STAT 510 572 and STAT 574, or consent of division.

STAT 680 625. BAYESIAN STATISTICS (3). Topics include Bayesian inference, Loss function and Risk, One parameter models and posterior inference, conjugate priors, non-informative priors, Multi-parameter models, Bayesian computation, Gibbs sampling and Markov Chain Monte Carlo Methods and Applications in different areas. Additional topics may include Decision theory, Theoretical and convergence properties of the Markov chain samplers, Bayesian model checking, selection and assessment criteria, Hierarchical models, Bayesian survival analysis. PRQ: STAT 510 572 and STAT 579, or consent of division.

STAT 694 695. STATISTICAL CONSULTING (3). Content varies and involves participation in actual consulting projects. Topics may include statistical techniques commonly used in solving real life problems, model for problem formulation; given specific data and research questions, identification of parameters and solutions; client-consultant interaction techniques; ill-posed problems and their



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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 81 of 86

formulation; management of consulting time, facilities, and personnel. Participation under supervision in actual consulting projects. PRQ: STAT 574 or eConsent of division. CRQ: STAT 572.

STAT 693 ~~697~~. GRADUATE READING IN PROBABILITY AND STATISTICS ~~INDEPENDENT STUDY~~ (1-9). May be repeated to a maximum of 9 semester hours. PRQ: Consent of division.

Other Catalog Change

Page 264, 2018-19 Graduate Catalog

**Doctor of Philosophy in Mathematical Sciences**

↓

Core Courses

↓

MATH 662 - Numerical Analysis (3)

STAT 610 - Theory of Statistics

STAT ~~670~~ 600 - Probability Theory (3)

STAT ~~672~~ - Theory of Statistics (3)

One of the following ...

↓

Group C

STAT ~~673~~ 643 - Linear Models (3)

STAT ~~679~~ - Advanced Statistical Methods (3)

STAT ~~680~~ 625 - Bayesian Statistics (3)

STAT ~~694~~ 695 - Statistical Consulting (3)

**Department of Psychology**

Course Revisions

Page 286, 2018-19 Graduate Catalog

655. INTERNSHIP IN CLINICAL PSYCHOLOGY (1-3). A period of one ... psychology faculty. The student must register for 3 semester hours during each of the fall and spring semesters and for 1 semester hours during the summer session for a total of 7 semester hours, of which 4 may be applied to the 90 semester hours required for the doctoral program. Students should contact their area head to determine the number of hours for which they need to register during any given academic term. PRQ: Departmental approval for the doctoral program.

656. INTERNSHIP IN SCHOOL PSYCHOLOGY 1-12. A period of 9 or 12 ... psychology faculty. The student must register for a minimum of 3 semester hours in each of the fall and spring semesters and, when appropriate, for a minimum of 1 semester hour during the summer session for a total of 65 to 30 semester hours. May be repeated, but only a total of 4 semester hours may be applied toward a graduate degree in psychology. Students should contact their area head to determine the number of hours for which they need to register during any given academic term. PRQ: Consent of department. Recommended: At least 2 semester hours of PSYC 653.

**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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

**SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog**

p. 82 of 86

**Department of Sociology**

Other Catalog Change

Page 292, 2018-19 Graduate Catalog

**Master of Arts in Sociology**

↓

Graduate courses are ..., social psychology, sociology of health and aging, **race, gender, and social inequality**, and criminology.

↓

**General Sociology (33)**

↓

Four elective courses in ..., social psychology, sociology of health and aging, **race, gender, and social inequality**, criminology, or another area approved by the graduate adviser (12).

↓

**Department of World Languages and Cultures**

Course Revision

Page 300, 2018-19 Graduate Catalog

**General (FLAL, FLIS, FLMT, FLPT, FLST)**

FLMT 597. METHODOLOGIES FOR THE TEACHING OF FOREIGN LANGUAGES AT THE UNIVERSITY LEVEL (3). ... .. Required course for new teaching assistants in the Department of World Languages and Cultures. ~~SAU grading.~~

Other Catalog Change

Page 296, 2018-19 Graduate Catalog

**Certificates of Graduate Study**

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**World Languages and Cultures - Spanish and Hispanic Studies (18)**

↓

Four of the following (12)

↓

500-level FLSP courses ~~(6)~~

One 500-level Spanish or Spanish-American culture and/or literature courses (3)

**COLLEGE OF VISUAL AND PERFORMING ARTS**

**School of Art and Design**

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  
Second Meeting 2018-19 Academic Year  
November 12, 2018

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 83 of 86

Course Revision Page 307, 2018-19 Graduate Catalog

ART 625. MUSEUMS: GENDER, RACE, AND CLASS (3). *Crosslisted as WGSTS 625X.* ....

Course Revisions: Page 309, 2018-19 Graduate Catalog

ARTE 783. DOCTORAL SEMINAR IN ART AND DESIGN EDUCATION (1). Analysis of selected problems and issues in art and design education. May be repeated to a maximum of 6 semester hours, but credit limited to 1 hour each semester. PRQ: Admission to the Ph.D. in Art and Design Education; the Ed.D. specialization in art education program; or consent of school.

ARTE 791. ~~CRITICAL THEORIES OF ART, CULTURE, AND PEDAGOGY~~ NEW IDEAS IN ART AND DESIGN EDUCATION (3). ~~Cultural theory~~ New ideas in the field as a basis for art and design education research and practice. Emphasis on the actual and potential impact of various critical traditions and contemporary critical theories theory and research on art and design education in schools and communities. PRQ: Admission to the art education specialization in the Ed.D. program in curriculum and instruction Ph.D. in Art and Design Education, or consent of school.

Course Revisions Page 310, 2018-19 Graduate Catalog

ARTH 540. STUDIES IN MODERN AND AMERICAN ART (3).

A. ~~American Art before 1945~~ 19th Century Art

B. The Avant-Garde 20th Century Modernism

C. Art Worlds—19th and 20th Centuries Thematic Subjects

D. Thematic Subjects

History, theory, and criticism of various aspects of modern and American art. May be repeated with different subjects. Multiple enrollments with different subjects are allowed in the same semester.

ARTH 651. TOPICS IN ART HISTORY: ANCIENT AND MIDDLE-EASTERN ART (3). ... ..

ARTH 652. TOPICS IN ART HISTORY: MEDIEVAL ART (3) ... ..

ARTH 653. TOPICS IN ART HISTORY: EARLY MODERN EUROPEAN ART (3). ... ..

ARTH 654. TOPICS IN ART HISTORY: MODERN AND AMERICAN ART (3). ... .. Topics, such as The Duchamp Effect, Controversies in American Art, Modernist Groups Global Moderns, will be announced. ... ..

ARTH 655. TOPICS IN ART HISTORY: CONTEMPORARY ART (3). ... .. Topics, such as Photography as Art and Art as Photography, Globalization and Contemporary Art, Identity in Contemporary Art, will be announced. ... ..

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

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 84 of 86

ARTH 656. TOPICS IN ~~ART HISTORY~~: DESIGN (3). ... ..

ARTH 657. TOPICS IN ~~ART HISTORY~~: ASIAN ART (3). In-depth research on specific artists, movements, periods, media, imagery, artistic genres or problems in the history of art. Topics such as, ~~The Female in Japanese Art~~, will be announced. ... ..

ARTH 658. TOPICS IN ~~ART HISTORY~~: AFRICAN, OCEANIAN, NATIVE-AMERICAN, PRE-COLUMBIAN AND LATIN-AMERICAN ART (3). ... .. Topics, such as,

Other Catalog Change:

Page 303, 2018-19 Graduate Catalog

**Art and Design Education**

**Master of Science in Art and Design**

↓

**Specialization in Art and Design Education (30)**

Applicants for the M.S. degree with a specialization in art and design education should have an undergraduate degree in art, art education, or other related field approved by the School of Art and Design. Students must complete 30 semester hours as follows in one of the following tracks.

**Professional or Educator In-Service: Blended – Track 1**

**Requirements**

ARTE 683 - Seminar in Art Education (3)

↓

ARTE 685 - Research Readings in Art Education (3)

Electives in art education (6)

Additional electives ... the School of Art and Design (12)

Students may complete their 30 semester hours by taking these courses online.

A maximum of 9 semester ...major adviser.

**Professional or Educator In-Service: Online – Track 2**

**Requirements**

ARTE 543 - Art and Technology in the K-12 Classroom (3)

ARTE 682 - Curriculum Development in Art and Design Education (3)

ARTE 684 - History and Philosophy of Art Education (3)

ARTE 685 - Research Readings in Art Education (3)

ARTE 687 - Evaluation and Assessment in Art Education (3)

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

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 85 of 86

ARTE 780 -Research Development and Writing (9)  
Seminar courses consisting of any combination of the following (6)  
ART 680 - Seminar (3-6)  
ARTE 683 - Seminar in Art Education (3-6)

**Educator Licensure<sup>1</sup> –Track 1<sup>1</sup>**

Persons holding a baccalaureate .... With adviser approval, graduate-level requirements for licensure can be part of the 30 semester hours required for this specialization. Additional course work is required to complete the master's degree requirements.

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**~~Educator In-Service: Online or Blended Track 2~~**

**Requirements**

ARTE 543—Art and Technology in the K-12 Classroom (3)  
↓  
ARTE 780—Research Development and Writing (9)  
Seminar courses consisting of any combination of the following (6)  
ART 680—Seminar (3-6)  
ARTE 683—Seminar in Art Education (3-6)

**School of Music**

New Course:

Page 319, 2018-19 Graduate Catalog

CIP CODE: 50.0901

**Music Performance (MUSP)**

↓

**Instrumental**

↓

645. SURVEY OF ORCHESTRAL BRASS MUSIC (1). ~~Course h~~Highlights orchestral repertoire with a focus on the brass passages. Designed for performance students who have an interest in orchestral literature and how brass performance relates to the orchestra as a whole. Works will be played to a "reading standard." May be repeated to a maximum of 3 semester hours. PRQ: Consent of ~~School~~school.

Course Revisions:

Page 316, 2018-19 Graduate Catalog

MUHL 623. ~~20TH-CENTURY IDIOMS I~~ MUSIC FROM 1900 TO 1945 (3). Musical developments from 1890 to 1950; ~~the end of the nineteenth-19th~~ century through World War II; impressionism, primitivism; expressionism; jazz influences; early serial techniques.

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

SECTION A – Recorded for inclusion in the 2019-20 Graduate Catalog

p. 86 of 86

MUHL 631. ~~20<sup>th</sup>-CENTURY IDIOMS II~~ **MUSIC SINCE 1945** (3). Historical, ~~organizational, and theoretical aspects of avant garde and experimental compositions, including electronic and computer music~~ and stylistic survey of Western concert and stage music from around the world from ca. 1945 to the present day. PRQ: ~~MUHL 623 or consent of school.~~

MUSE 675. CHINESE MUSIC ENSEMBLE (1). ... .. **May be repeated to a maximum of 12 semester hours.**

### School of Theatre and Dance

Other Catalog Change: Pages 321-322, 2018-19 Graduate Catalog

#### Master of Fine Arts in Theatre Arts

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#### Requirements

Students ... following.

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Completion of the following core program of study (~~14~~) **(11)**

↓

Completion of a minimum of ~~58~~ **61** semester hours in consultation with the school in one of the following specializations.

↓

#### Specialization in Design and Technology

Course work from one of the areas of study selected by advisement (~~58~~) **(61)**