

## GRADUATE COUNCIL MINUTES

661<sup>st</sup> Meeting

November 1, 2021

**MEMBERS PRESENT:** Damodaran, Arado, Adibhatla, Bateni, Balcerzak, Beldon, Burchfield, Clark M., Duffrin, Garver, Groves, Howell, Hunt, Jaekel, Jackson, Johnson, Klonoski, Mantzke, Moghimi, Osorio, Taylor, Wasonga, Wu, Xia, and Zheng

**MEMBERS ABSENT:** Clark M., Gomez Enriquez Riart, and Ryzhov

**OTHERS PRESENT:** Barshinger (Secretary), Griffin (Ombudsperson), Halverson (Catalog Editor/Curriculum Coordinator), Matuszewich (Associate Dean of CLAS), and Scherer (GC member in the spring for Burchfield)

Interim Dean Damodaran called the Teams meeting to order at 10:00 a.m.

### Approval of Minutes

Burchfield moved to approve the minutes from the September 13, 2021 meeting. Arado seconded. Motion carried. Minutes approved.

### Committee Reports

***Graduate Council Standards Committee:*** The Graduate Council Standards Committee met on Monday, September 20, 2021. The Department of English requested to remove the GRE requirement from their application process in the MA and PhD programs. This item was approved by the committee. Motion to approve the report. The report was approved unanimously by the Graduate Council.

***Graduate School Faculty Awards Committee:*** Damodaran reported that the committee met on Thursday, October 7, 2021, to discuss nominations for this year's distinguished graduate faculty award. The committee reviewed nine nominations. This award recognizes graduate faculty for excellence in graduate mentoring and outstanding scholarly achievement. The committee selected two recipients: Dr. Timothy Hagen from the Department of Chemistry and Biochemistry and Dr. Brad Sagarin from the Department of Psychology. Hagen will be honored at the December 2021 commencement ceremony and Sagarin will be honored at the May 2022 commencement ceremony.

***Graduate School Student Awards Committee:*** At the October meetings of the two subcommittees, the Arts, Humanities, Social Sciences, and Education Subcommittee and the Health Sciences and STEM Subcommittee each selected a thesis and dissertation prize winner. There were 10 nominations submitted for the sub-committees to review. The Outstanding Dissertation Awards were awarded to JoAnn LoSavio from the Department of History and Xinyu Hu from the Department of Psychology. The Outstanding Thesis Awards were awarded to Maw Maw Tun from the Department of English and Sarah Fleck from the Department of Mechanical Engineering.

## New Business

### **1. Curriculum Changes**

**College of Business:** Mantzke summarized the curriculum changes proposed by the College of Business. Refer to the curriculum attachments for more information.

Mantzke asked for a motion to approve the curriculum changes submitted from the College of Business. Arado made the motion to approve and Balcerzak seconded. The Council approved these changes unanimously.

**College of Engineering and Engineering Technology:** Mantzke summarized the curriculum changes proposed by the College of Engineering and Engineering Technology. Refer to the curriculum attachments for more information.

Mantzke asked for a motion to approve the curriculum changes submitted from the College of Engineering and Engineering Technology. Osorio made the motion to approve and Wasonga seconded. The Council approved these changes unanimously.

**College of Health and Human Sciences:** Mantzke summarized the curriculum changes proposed by the College of Health and Human Sciences. Refer to the curriculum attachments for more information.

Mantzke asked for a motion to approve the curriculum changes submitted from the College of Health and Human Sciences first meeting. Wasonga made the motion to approve and Burchfield seconded. The Council approved these changes unanimously.

Mantzke asked for a motion to approve the curriculum changes submitted from the College of Health and Human Sciences second meeting. Discussion ensued. The curriculum changes highlighted in purple (AHPT 709, 730, and 799) were tabled pending more clarification from the college. The DPT curriculum changes highlighted in yellow were also pulled back from a later meeting. Mantzke asked for a motion to approve the five nursing items from the second meeting. Wasonga made the motion to approve and Burchfield seconded. The Council approved the nursing changes in this section unanimously.

Mantzke asked for a motion to approve the curriculum changes submitted from the College of Health and Human Sciences third meeting except for the Communicative Disorders item highlighted in blue. That item has been postponed to a later meeting by the department. Wasonga made the motion to approve and Hunt seconded. The Council approved items 1, 2, and 4 changes unanimously.

**College of Liberal Arts and Sciences:** Mantzke summarized the curriculum changes proposed by the College of Liberal Arts and Sciences. Refer to the curriculum attachments for more information.

Mantzke asked for a motion to approve the curriculum changes submitted from the College of Liberal Arts and Sciences second meeting. Burchfield made the motion to approve and Groves seconded. The Council approved these changes unanimously.

Mantzke asked for a motion to approve the curriculum changes submitted from the College of Liberal Arts and Sciences third meeting. Burchfield made the motion to approve and Wasonga seconded. The Council approved these changes unanimously.

Section E items highlight in purple (AHPT 610 & 611) are tabled and Halverson will send back to the department for more clarification.

2. **Migration to Website Information**

Damodaran shared with the Council information that is on the graduate school's website, departmental websites, and the online graduate catalog are not consistent. He would like to create a committee to review policies on how to provide information on these websites, guidelines on how this needs to be done, and how these websites can be more uniformed. Damodaran will look into forming a committee to review these websites and will report back to the Council when something has been created.

**Old Business:**

No old business was discussed.

**Announcements**

Damodaran announced that graduate faculty should have received an email from Provost Ingram inviting them to the December Commencement. Commencement will be held in-person at the NIU Convocation Center on Saturday, December 11 at 2:00 p.m. Please share this information with your colleagues and encourage them to attend. NIU is using a new company to order regalia (Oak Hall). This information was also shared with you in the Provost's email.

**Adjournment:**

Damodaran adjourned the meeting at 11:08 a.m.

# Agenda items for Curricular Changes for inclusion to the Graduate Council Agenda for

November 01, 2021

## I. COLLEGE MINUTE ITEMS – Section A

- A. College of Business
  - 1. CBUSGR 02 (AY 2021-2022)
    - Item CBUSGR21.22.02.02/PR MS Finance
  
- B. College of Engineering and Engineering Technology
  - 1. CEET 03 (AY 2021-2022)
    - Item CEET21.22.03.06/PR MS Electrical Engineering
    - Item CEET21.22.03.07/NC MEE 797
    - Item CEET21.22.03.08/PR Accelerated BS\_MS Mechanical Engineering
  
- C. College of Health and Human Sciences
  - 1. CHHS 01 (AY 2021-2022)
    - Item CHHS21.22.01.02/PR Master of Public Health
  
  - 2. CHHS 02 (AY 2021-2022)
    - Item CHHS21.22.02.01/NC NURS 700 – Supporting Document
    - Item CHHS21.22.02.02/NC NURS 743 – Supporting Document
    - Item CHHS21.22.02.03/PR DNP PostBacc – Impact Statement
    - Item CHHS21.22.02.04/PR MS Nursing
    - Item CHHS21.22.02.05/CR NURS 710
    - Item CHHS21.22.02.06/CR AHPT 709
    - Item CHHS21.22.02.07/ CR AHPT 730
    - Item CHHS21.22.02.08/CR AHPT 799
    - Item CHHS21.22.02.09/PR DPT
    - Item CHHS21.22.02.10/ PR DPT
  
  - 3. CHHS 04 (AY 2021-2022)
    - Item CHHS21.22.04.01/NC COMD 700 – Supporting Document
    - Item CHHS21.22.04.03/PR MA Communicative Disorders
    - Item CHHS21.22.04.04/PR CGS Eating Disorders and Obesity
  
- D. College of Liberal Arts and Sciences
  - 1. CLAS 02 (AY 2021-2022)
    - Item CLAS21.22.02.53/PR CGS Law and Women's and Gender Studies
    - Item CLAS21.22.02.54/PR CGS Southeast Asian Studies
    - Item CLAS21.22.02.55/PR CGS Women's and Gender Studies
    - Item CLAS21.22.02.56/PR MA Anthropology
    - Item CLAS21.22.02.57/PR MA History
    - Item CLAS21.22.02.58/PR MA Psychology
    - Item CLAS21.22.02.59/PR PhD Psychology
    - Item CLAS21.22.02.60/PR SSP Psychology
  
  - 2. CLAS 03 (AY 2021-2022)
    - Item CLAS21.22.03.10/CGS PR/ Latin American Studies – Impact statement
    - Item CLAS21.22.03.11/CR SOCI 529X

Item CLAS21.22.03.12/NC CSCI 638  
Item CLAS21.22.03.13/NC CSCI 640  
Item CLAS21.22.03.14/NC CSCI 644  
Item CLAS21.22.03.15/NC CSCI 649  
Item CLAS21.22.03.16/NC CSCI 671  
Item CLAS21.22.03.17/NC CSCI 674  
Item CLAS21.22.03.18/PR MS Computer Science  
Item CLAS21.22.03.19/PR PhD Computer Science  
Item CLAS21.22.03.20/NC SOCI 529X  
Item CLAS21.22.03.21/NC SOCI 584

## **II. COLLEGE MINUTE ITEMS – Section B**

- A. College of Health and Human Sciences  
Item CHHS21.22.04.02/NEW CGS Multicultural SLP – Impact Statements

## **III. COLLEGE MINUTE ITEMS – Section E**

- A. College of Business
  - 1. CBUSGR 02 (AY 2021-2022)  
Item CBUSGR21.22.02.01/CR FINA 629
- B. College of Health and Human Sciences
  - 1. CHHS 03 (AY 2021-2022)  
Item CHHS21.22.03.01/CR AHPT 610  
Item CHHS21.22.03.02/CR AHPT 611
- C. College of Liberal Arts and Sciences
  - 1. CLAS 03 (AY 2021-2022)  
Item CLAS21.22.03.09/CR CSCI 513

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**COLLEGE OF BUSINESS**

**DEPARTMENT OF FINANCE**

Other catalog change      **CBUSGR21.22.02.02** Graduate Catalog [LINK](#)

**Master of Science in Finance**

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Requirements

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Four of the following electives (12)

To be selected from the following courses or from among relevant graduate offerings elsewhere in the university with approval of the academic program coordinator.

- **FINA 515 – Personal Investing and Finance Credits: 3**
- **FINA 526 – Insurance Principles Credits: 3**
- FINA 555 – Analysis of Derivative Securities Credits: 3
- ↓
- FINA 623 – Investment Management Credits: 3
- **FINA 627 – Retirement and Estate Planning Credits: 3**
- **FINA 629 – Financial Planning Case Studies Credits: 3**
- FINA 645 – Security Analysis Practicum Credits: 3
- ↓

*Rationale: To expand and enrich the offerings of elective courses for the MS Finance*

**COLLEGE OF ENGINEERING AND ENGINEERING TECHNOLOGY**

**Department of Electrical Engineering**

Other Catalog Change      **CEET21.22.03.06**      Online Catalog [LINK](#) 2021-2022 Graduate Catalog

**Master of Science in Electrical Engineering**

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**Non-Thesis Option**

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**Course Option**

Students pursuing a M.S. degree under this option must earn a minimum of 33 semester hours of graduate credit, excluding ELE 597, ELE 690, ELE 695, ELE 699A and ELE699B. Students are required to write a research paper related to one or more electrical engineering courses taken as part of the graduate program. The completed paper must be examined and approved by the student's faculty advisor as a requirement for graduation. Students are

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further required to take ELE 691, a zero-credit hour Electrical Engineering graduate seminar class within their first two semesters of enrollment in their master's degree program. The student, with the support of his or her faculty adviser, must submit to the department a program of graduate study. A maximum of 12 semester hours can be taken at the 500 level.

*Rationale: Including a course option would give an opportunity for more students to successfully complete a master's degree in Electrical Engineering.*

Additional Rationale provided by Mansour Tahernezehadi via email on 10.18.2021

- The thesis option 1 has a total of 30 credit hour requirement which must include ELE 690 (3 credit hours), ELE 695 (6 credit hours), and 699A (6 credit hours).
- The thesis option 2 has a total of 31 credit hour requirement which must include ELE 690 (1 credit hour), and 699A (6 credit hours).
- The non-thesis option has a total of 31 credit hour requirement which must include ELE 690 (1 credit hours), and 699B (3 credit hours). While the Non-thesis Option should lead to original work. it differs from the thesis Option 2 in that the project work is documented in a report that does not follow a formal thesis format. Providing further flexibility, the project defense and its accompanying report does not have a set deadline as the thesis option does and they both can be completed all the way to the end of the semester.
- The course only option has a total of 33 credit hour requirement (all formal course work). The needed paper is realized through an existing course project with the approval of the faculty adviser in order to avoid for the student doing additional work with no credit. The course only option is designed to provide additional flexibility to ensure timely graduation for our students.

**Department of Mechanical Engineering**

New Course: **CEET21.22.03.07** 2021-2022 Online Catalog [Link](#)

**CIP CODE: 14.1901**

**MEE 797. Pre-candidacy Research**

Research in preparation for candidacy for doctoral students. Course may be repeated, but only 9 semester hours credit will count toward the Ph.D. degree. Students who have successfully completed their candidacy exam should take MEE 799 instead.

**PRQ: Completion of the "Core Courses" requirement, and consent of department.**

**Credits: 1-6**

Rationale:

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The new Ph.D program in Mechanical Engineering is open to students coming in with a bachelors and masters degrees. In the case of Masters students, who may come with a significant amount of course requirements fulfilled, the time between admission into the program and passing the candidacy exam may take two or more years. During this time, once they have satisfied their course requirements, students currently have two options: (a) either take additional coursework unrelated to their research, or (b) take independent study credits which do not count towards their degree. This situation particularly affects research assistants and international students who are required to register for 9 credits every semester in order to receive stipend and/or maintain status. The proposed course will address this gap by allowing students to work on their dissertation research as they progress towards candidacy while counting towards the degree requirement. Similar courses offered are being offered by other institutions as listed below

1. Pre-candidacy study, 3-12 credits University of Delaware  
[https://catalog.udel.edu/preview\\_course\\_nopop.php?catoid=12&coid=43000](https://catalog.udel.edu/preview_course_nopop.php?catoid=12&coid=43000)
2. Pre-candidacy research, 3-9 credits, University of British Columbia,  
[https://catalog.umbc.edu/preview\\_course\\_nopop.php?catoid=21&coid=65274](https://catalog.umbc.edu/preview_course_nopop.php?catoid=21&coid=65274)

Impact of course on curriculum of other departments within the college or university:

This is an elective course in the Ph.D. program in Mechanical Engineering and can only be taken by Ph.D students in Mechanical Engineering. As such there is no duplication of content or impact on other programs.

Other Catalog Change **CEET21.22.03.08** Online Catalog [Link](#) 2021-2022 Graduate Catalog

**Mechanical Engineering (MEE)**

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**Accelerated B.S. Mechanical Engineering / M.S. Mechanical Engineering**

The department also offers an accelerated B.S./M.S. sequence that leads to an M.S. in Mechanical Engineering after students received a B.S. in Mechanical Engineering, Mechatronics Engineering, Biomedical Engineering, Electrical Engineering, or Industrial and Systems Engineering. This accelerated sequence is open to all undergraduate mechanical engineering and mechatronics-engineering majors in the programs listed above who have finished at least 90 semester hours of undergraduate course work with a minimum GPA of 3.00. A minimum GPA of 3.00 must be maintained during the course of study. Failure to meet the requirements of the accelerated sequence may lead to a B.S. only, but only after the requirements for that degree have been met.



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With this program, a student can take B.S. and M.S. courses simultaneously, up to three semesters before earning the undergraduate degree. Depending on the undergraduate major, One can have up to 18 semester hours count towards both the undergraduate and graduate degrees. Students coming from programs other than Mechanical Engineering may also have to take additional foundational mechanical engineering undergraduate courses as described in the Graduate Catalog.

A GRE is not required. Students must meet Graduate School application deadlines. Interested students should talk with an adviser as early as possible and are encouraged to apply during the spring semester of their junior year.

Students wishing to take part in this program should be aware of all the regulations and restrictions of accelerated baccalaureate/master's degree programs as outlined in the NIU Graduate School Catalog under the heading of Early Admission of NIU Undergraduates; and Admission to Accelerated Baccalaureate/Master's Degree Programs.

All students enrolled in this sequence must have their schedule approved by their faculty adviser each semester. Any deviation from an approved course schedule may delay graduation.

University Honors students in Mechanical Engineering who are actively accumulating points through honors course work or Engage PLUS are guaranteed admission to the B.S./M.S. program.

*Rationale: The department has decided to offer the B.S./M.S. in Mechanical Engineering program to students in other engineering programs.*

## **COLLEGE OF HEALTH AND HUMAN SCIENCES**

### **SCHOOL OF HEALTH STUDIES**

Other Catalog Change      **CHHS21.22.01.02**      **Online Graduate Catalog** [LINK](#)

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

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#### **Grading Policy**

M.P.H. students must earn a minimum grade of B- in each of the following nine core courses, and in any required specialization courses (PHHE 621, and PHHE 631, and PHHE 665 for those specializing in Health Promotion, or PHHE 653, PHHE 655, and PHHE 657 for those specializing in Health Services Management):

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PHHE 661 – Public Health Policy and Law Credits: 3

PHHE 665 – Public Health Program and Policy Evaluation Credits: 3

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#### **Non-Thesis Option**

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#### **Requirements**

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**Specialization in Health Promotion**

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PHHE 631 – Community Health Promotion Programs Credits: 3  
**PHHE 665 – Public Health Program and Policy Evaluation Credits: 3**  
Additional course work (3 6)

**RATIONALE:**

Our accrediting agency, the Council on Education for Public Health, now requires a minimum of 9 credit hours of specialization courses per specialization. Currently, there are only 6 credits of required health promotion classes. Adding PHHE 665 will raise that to 9 credits. This course also addresses one of the new health promotion competencies, not addressed by the other courses.

Since PHHE 665 will become a required specialization course, the number of credit hours for electives in the health promotion specialization would decrease from 6 to 3.

Contact with other departments: (if adding required courses from other departments):  
N/A

**SCHOOL OF NURSING**

New Course

**CHHS21.22.02.01**

**Online Graduate Catalog [LINK](#)**

**CIP CODE: 51.3805**

**NURS 700. Introduction to the DNP Project: Identification of a Phenomena of Interest which is a clinical problem or area of concern that is meaningful to the student and valued by the practice setting which is the first step in the DNP project planning process. A collaborative approach will be used to identify a nursing practice problem and plan for evidence-based practice change using advanced nursing judgement in the practicum setting.**

**PRQ: Admission to the DNP program, or consent of school**

**Credits: 1**

**RATIONALE:**

The addition of NURS 700 will help with DNP project development. Currently, there is a weakness in students being able to identify appropriate DNP projects. NURS 700 will help students learn and understand the fundamental aspects of DNP project identification.

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New Course **CHHS21.22.02.02** **Online Graduate Catalog** [LINK](#)

**CIP CODE:51.3805**

**NURS 743. DNP Project Practicum: Practice experiences, practice hours and collaborative partnerships in a healthcare setting for purposes of assessing and planning the DNP Project and affording practice opportunities to apply, integrate and synthesize the DNP Essentials. DNP Project planning activities will focus on: Changes that impact healthcare outcomes with a systems or population focus, demonstrate practice implementation, a plan for real sustainability and evaluation, and a foundation for future practice scholarship.**

**CRQ: NURS 710; or Consent of School**

**PRQ: PHHE 661, NURS 700, UHHS 740, NURS 701, NURS 702, NURS 704, NURS 705, and NURS 706; or Consent of School**

**Credits: 2-3**

**RATIONALE:**

- NURS 743 will combine NURS 713, NURS 723 and NURS 733 into one course. Currently, students are enrolled in 713-723-733 for 2-3 credit hours. Summer courses are unavailable. Merging these three courses into one practicum course, NURS 743 would allow for seamless work on DNP projects that could be offered year-round. In addition, students could take for variable credits (2-3) until all requirements are met for their DNP Project.

Other Catalog Change **CHHS21.22.02.03** **Online Graduate Catalog** [Link](#)

Doctor of Nursing Practice (Post Bachelor's)

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D.N.P. Component Courses (2021)

**NURS 700 - Introduction to the DNP Project Credits: 1**

NURS 701 - Advanced Nursing Leadership Credits: 3

NURS 702 - DNP Research: Evidence-Based Practice Methods Credits: 3

NURS 704 - Clinical Prevention for Population Health Credits: 3

NURS 705 - Advanced Nursing Ethics Credits: 2

NURS 706 - Informatics for Evidence-Based Nursing Credits: 3

UHHS 740 - Data Analysis in the Health Sciences Credits: 3

**PHHE 661 - Public Health Policy and Law Credits: 3**

**Cognate/Elective Credits: 3**

Scholarly Project Courses for D.N.P. (15-18/12-15)

NURS 710 - DNP Project I: Seminar **Development and Implementation** Credits: 3

~~NURS 713 - DNP Project I: Practicum Credits: 2-3~~

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~~NURS 720 – DNP Project II: Seminar Credits: 3~~  
~~NURS 723 – DNP Project II: Practicum Credits: 2-3~~  
~~NURS 730 – DNP Project III: Seminar Credits: 3~~  
~~NURS 733 – DNP Project III: Practicum Credits: 2-3~~  
**NURS 730 – DNP Project II: Project Evaluation Credits: 3**  
**NURS 743 - DNP Project Practicum: 2-3 per semester repeatable for up to 9 credit hours**

**RATIONALE:**

- The addition of NURS 700 will help with DNP project development. Currently, there is a weakness in students being able to identify appropriate DNP projects. NURS 700 will help students learn and understand the fundamental aspects of DNP project identification.
- Removing the Cognate Elective from the DNP Curriculum and replacing it with a Health Policy course will meet DNP Essential V: Health Care Policy for Advocacy in Health Care. PHHE 661 will be added to the curriculum to provide health policy. Utilizing an outside program reduces redundancy in courses in the College and allows for an interdisciplinary approach.
- Combining content from NURS 710 and 720 into one course (NURS 710 - DNP Project I: Development and Implementation). This better aligns with the DNP Project as students will now get content about implementation before implementing the project.
- NURS 743 will combine NURS 713, NURS 723 and NURS 733 into one course. Currently, students are enrolled in 713-723-733 for 2-3 credit hours. Summer courses are unavailable. Merging these three courses into one practicum course, NURS 743 would allow for seamless work on DNP projects that could be offered year-round. In addition, students could take for variable credits (2-3) until all requirements are met for their DNP Project.

Other Catalog Change      **CHHS21.22.02.04**      **Online Graduate Catalog [LINK](#)**

Master of Science in Nursing

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Eligibility to Apply

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A baccalaureate **or master's in nursing** degree from a school accredited by an accrediting agency officially recognized by the U.S. Secretary of Education, such as the Commission on Collegiate Nursing Education (CCNE), or from a program seeking initial accreditation which includes an upper-division major in nursing equivalent to the undergraduate nursing major at NIU. If the applicant is a graduate of a non-graded baccalaureate program in nursing, CCNE accreditation is required. The applicant must provide documentation of course work which is essentially equivalent to that required in the baccalaureate nursing major at NIU.

Rationale:

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After review of the Graduate Admissions Policy, it was determined by Northern Illinois University School of Nursing Chair, School of Nursing administration, standards committee members, and General Faculty Committee members that it would be beneficial for potential enrollment to include both baccalaureate and master's degree applicants as eligible to apply. This does not mean the students will be automatically accepted and admitted but we would be able to review their applications for possible admission. The rationale for this change is due to the variation of degree options that are available for nursing students across the United States. Students that are applying to our baccalaureate to masters or baccalaureate to doctoral degrees may not have a baccalaureate degree from a school accredited by Commission on Collegiate Nursing because they may have a non-nursing baccalaureate degree along with a higher level master's degree from an accredited Commission on Collegiate Nursing. Due to with our current Graduate Admissions policy these students would be ineligible to apply to the program even though they have a higher degree. Furthermore, for clarification the student with a previous conferred master's degree applying to our master's program may have a master's degree without specialization as a family nurse practitioner which would include nursing education, nursing leadership, nursing informatics, etc. and seeking a master's degree from our program due to specialization offered to become a family nurse practitioner.

Course Revision      **CHHS21.22.02.05**      **Online Graduate Catalog: [Link](#)**

~~NURS 710. -DNP Project I: Seminar~~ **DNP Project I: Development and Implementation** (3) Assessment and planning of the DNP Project to address an emerging or current healthcare practice problem or issue in a specific healthcare setting. Development of a proposal to implement a system wide healthcare policy, service, or practice innovation that contributes to evidence-based practices or quality improvement at a local, regional, or national level. Activities focused on refinement of the issue statement, analysis of background, knowledge synthesis, and detailed planning for implementation and evaluation. Formal defense of a final written project proposal. CRQ: ~~NURS 713, NURS 743~~; or Consent of School PRQ: ~~NURS 704, and NURS 705 and NURS 706; or consent of school~~ **PHHE 661, NURS 700, UHHS 740, NURS 702, and NURS 704; or Consent of School**

**RATIONALE:**

Combining content from NURS 710 and 720 into one course and changing course name to reflect the content to be covered in the course. This better aligns with the DNP Project as students will now get content about implementation before implementing the project

**SCHOOL OF ALLIED HEALTH AND COMMUNICATIVE DISORDERS**

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**SCHOOL OF ALLIED HEALTH AND COMMUNICATIVE DISORDERS**

New Course **CHHS21.22.04.01** [LINK](#) 2021-2022 Graduate Catalog

**CIP CODE: 51.0202**

**COMD 700. Portfolio for Multicultural Certificate in Speech-Language Pathology**

Portfolio of student's work demonstrating proficiency meeting criteria for the Multicultural Certificate in Speech-Language Pathology. The student's portfolio will display case studies, presentations, simulation assessment and intervention sessions with interpreters, and clinical experiences with diverse populations. S/U grading may be used.

**PRQ: Admission to speech-language pathology program and admission to the Multicultural Certificate in Speech-Language Pathology.**

**Credits: 0**

**RATIONALE:**

Currently, the field of speech-language pathology is experiencing client-clinician mismatch. Approximately 21% of the U.S. population ages five and above identify as bilingual (Kohnert & Ebert, 2020). Therefore, there is a need to educate more speech-language pathologists who have specialized expertise working with a culturally and linguistically diverse population. This course is a core of the certificate and will serve as a mechanism to manage all requirements for the completion of the multicultural certificate in speech-language pathology.

**SCHOOL OF HEALTH STUDIES**

Other Catalog Change **CHHS21.22.04.04** [LINK](#) 2021-2022 Graduate Catalog

**Eating Disorders and Obesity (12)**

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**Requirements**

NUTR 602 - Issues in Eating Disorders and Obesity Credits: 3

**NUTR 616 - Nutritional Factors in Obesity and Eating Disorders Credits: 3**

**Course work from the following (9 6):**

HDFS 637 - The Child in the Family Credits: 3

~~HDFS 674 - Clothing and Human Behavior Credits: 3~~

HDFS 684 - The Family with Adolescents Credits: 3

OR EPS 508 - Theories and Research in Adolescent Behavior and Development  
Credits: 3

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HDFS 685 - Family Stress and Structural Diversity Credits: 3  
~~HDFS 705 – Introduction to Medical Family Therapy and Counseling Credits: 3~~  
HLTH 673 - Special Topics in Health Studies Credits: 1-3  
~~NUTR 616 – Nutritional Factors in Obesity and Eating Disorders Credits: 3~~  
NUTR 636 - Motivational Interviewing and Other Behavior Strategies in Nutrition and Dietetics Credits: 3  
NUTR 702 - Biopsychosocial Approaches for Eating Disorders and Obesity Credits: 3

**RATIONALE:**

NUTR 616 is being added as a required course because it extends the knowledge the students learn in NUTR 602 and gives them an opportunity to apply the information learned in NUTR 602 in different assignments for NUTR 616. Additionally, both courses NUTR 602 and NUTR 616 together fulfill the objectives of the Eating Disorders and Obesity Certificate more comprehensively than either of those courses alone.

Updated the total credit hours for elective course list to reflect the decreased number of required elective courses because of increased required courses. This certificate remains 12 credit hours.

HDFS 674 and HDFS 705 are being removed from the list of elective courses because they have not been offered in over three years.

**COLLEGE OF LIBERAL ARTS AND SCIENCES**

Other Catalog Change      **CLAS21.22.02.53**      2021-22 Graduate Online Catalog [LINK](#)

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

**Certificate of Graduate Study**

↓

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

- ANTH 522 - Gender in Southeast Asia Credits: 3
- ANTH 568 - Anthropology of Gender Credits: 3
- ↓
- HIST 573 - Topics in Women's History Credits: 3
- HIST 610 - Reading Seminar in ~~U.S.~~ History Credits: 3
- ↓
- WGSS 639 - Independent Study in Women, Gender, and Sexuality Studies Credits: 1-3  
(Requires advance approval of the director of the Center for the Study of Women, Gender, and Sexuality.)

Rationale: Revision to the title for HIST 610.

Notification: The Center for the Study of Women, Gender, and Sexuality Studies was notified of

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this change via email on September 22, 2021.

Other Catalog Change      **CLAS21.22.02.54**      2021-22 Graduate Online Catalog [LINK](#)

**Southeast Asian Studies (12-22)**

↓

**Requirements (12-22)**

- SEAS 625 - Southeast Asia: A Multidisciplinary Perspective Credits: 3

**One of the following–Culture and Arts (3)**

- ANTH 507 - Peoples and Cultures of ~~Insular~~ Southeast Asia Credits: 3
- ~~• ANTH 508 - Peoples and Cultures of Mainland Southeast Asia Credits: 3~~
- ANTH 521 - Social Organization Credits: 3

↓

- MUSE 670 - Gamelan Credits: 1

↓

**One of the following-Geography and History (3)**

- GEOG 758 - Readings in Geography Credits: 1-3  
Courses may meet the certification requirements when they include substantial treatment of Southeast Asia.

↓

- HIST 569 - The Vietnam War Credits: 3
- ~~• HIST 570 - America and Asia Credits: 3  
Courses may meet the certification requirements when they include substantial treatment of Southeast Asia.~~

↓

- HIST 760 - Research Seminar in Asian History Credits: 3  
Courses may meet the certification requirements when they include substantial treatment of Southeast Asia.

Rationale: Deletion of ANTH 508 and HIST 570, and revision to the title of ANTH 507.

Notification: The Center for Southeast Studies was notified of these changes via email on September 22, 2021.

Other Catalog Change      **CLAS21.22.02.55**      2021-22 Graduate Online Catalog [LINK](#)

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

↓

**Certificate of Graduate Study**

↓



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**Requirements (12)**

↓

**Two of the following (6)**

- ANTH 522 - Gender in Southeast Asia Credits: 3
- ANTH 541 - Sexual Selection and Gender in Primates Credits: 3
- ANTH 568 - Anthropology of Gender Credits: 3

↓

- HIST 573 - Topics in Women's History Credits: 3
- HIST 610 - Reading Seminar in U.S. History Credits: 3

↓

- WGSS 639 - Independent Study in Women, Gender, and Sexuality Studies Credits: 1-3

Rationale: Revisions to the titles for ANTH 541 and HIST 610.

Notification: The Center for the Study of Women, Gender, and Sexuality Studies was notified of this change via email on September 22, 2021.

**Department of Anthropology**

Other Catalog Change      **CLAS21.22.02.56**      2021-22 Graduate Online Catalog [LINK](#)

**Master of Arts in Anthropology**

↓

**Requirements (30-36)**

↓

**Archaeology**  
**Biological Anthropology**  
~~Cultural-social-A~~ **Anthropology**  
~~Linguistic a~~ **Anthropology**  
~~Physical anthropology~~

**~~Additional Requirements~~**

~~Students choosing the thesis option must take at least 18 additional semester hours, of which at least 12 must be in anthropology. For students electing to write a thesis, the additional 12 hours in anthropology must include at least three semester hours of ANTH 600.~~

~~Students choosing the non-thesis option must take at least 24 additional semester hours, of which at least 18 must be in anthropology.~~

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~~Consequently, of the total 30-hour credit requirement for the thesis option, three semester hours must come from ANTH 699.~~

~~Independent study courses may not be substituted for required courses without the consent of the student's adviser and the department chair.~~

~~Each student in the master's degree program must demonstrate to the satisfaction of their faculty committee proficiency in either statistics or a foreign language useful for the student's research and must choose one of the following options.~~

**Students shall choose either the thesis or non-thesis option.**

### **Thesis Option**

~~Students choosing this the thesis option must register for take at least 3 18 additional semester hours, for a total of 30 semester hours. Twelve of the additional 18 semester hours must be in Anthropology. These additional 12 hours must include at least three and as many as six semester hours of credit in ANTH 699, Master's Thesis (more than six hours may be taken but they will not be applied to the degree requirements), and satisfactorily complete the departmental qualifying examination in their primary subfield of anthropology. Approval of a written preliminary thesis proposal is required before registration in ANTH 699. Although the student may seek approval of the preliminary thesis proposal at any time, successful completion of the qualifying examination in the student's major subfield of anthropology is a prerequisite to formal registration in ANTH 699.~~

**Students choosing this option must satisfactorily complete the departmental qualifying examination in their primary subfield. Approval of a written preliminary thesis proposal is required before registration in ANTH 699. Although the student may seek approval of the preliminary thesis proposal at any time, successful completion of the qualifying examination in the student's major subfield of Anthropology is a prerequisite to formal registration in ANTH 699.**

ANTH 699 - Master's Thesis Credits: 1-6

### **Non-Thesis Option**

~~Students choosing this option must successfully complete the comprehensive examination in anthropology, covering all four subfields of anthropology. The non-thesis track is appropriate for students who plan to seek employment in a variety of professional careers but is not recommended for students who plan to apply to doctoral programs.~~

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Students choosing the non-thesis option must take at least 24 additional semester hours, for a total of 36 semester hours. Eighteen of the additional 24 semester hours must be in Anthropology.

Independent study courses may be substituted for required courses with the consent of the student's adviser and the department chair.

**Additional Requirements**

Each student in the master's degree program must demonstrate to the satisfaction of their faculty committee proficiency in either statistics or a foreign language useful for the student's research.

Rationale: As we have had a major turnover in faculty, we continue to restructure our programs and modify the catalog language to make it easier for students to understand.

**Department of History**

Other Catalog Change **CLAS21.22.02.57** 2021-22 Graduate Online Catalog [LINK](#)

**Master of Arts in History**

Students pursuing the M.A. degree in ... .... The 30 semester hours required for the M.A. must include a minimum of ~~18~~ **9** semester hours **of reading seminars in a primary field** ~~(of which a minimum of 9 semester hours must be in research credits)~~ and a minimum of 6 semester hours ~~in a secondary field~~ **of research seminars**. **Students are allowed to take up to 12 semester hours of course work in History at the 500 level. All students must also take HIST 756 (Directed Research) to complete their master's essay or thesis.** ~~Within the total of 30 semester hours the student must present a minimum of 9 semester hours in reading seminars. The primary and secondary fields offered in the M.A. program are Asian, ancient, medieval, early modern, modern European (including British), Russian and Eastern European, Latin American, African, United States, and global history. The secondary field may instead be an approved cognate field outside of history.~~

~~M.A. students will fulfill the 9 semester hours research requirement of the M.A. degree by satisfactorily completing two formal research seminars. The remainder of the research credits required will be fulfilled through independent research (HIST 756), culminating in a master's essay or thesis. M.A. students who intend to apply for admission to the Ph.D. program will be expected to submit their master's essay or thesis for review by faculty responsible for approving admission into the Ph.D. program.~~

↓

Students in the M.A. program must satisfactorily complete a written comprehensive examination **that involves two field essays with separate faculty examiners in their**

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~~primary field.~~ At the discretion of either the examining committee or the student, the written M.A. comprehensive may be followed by an oral examination about one week after the evaluation of the written examination. ~~There is no examination in the student's secondary field, but students must achieve a grade of B or better in at least 6 semester hours of course work in that field.~~



**Course requirements**

**Core requirements (18)**

- HIST 610 - Reading Seminar in History Credits: 3  
Students must take 9 semester hours in this course.
- HIST 710 - Research Seminar in History Credits: 3  
Students must take 9 semester hours in this course.
- HIST 756 - Directed Research Credits: 3

**Additional coursework (12)**

Up to four courses (12 semester hours) may be taken from the following list. M.A. students also may select to take up to two courses (6 semester hours) at the graduate level from an approved cognate field or fields.

- HIST 502 - Gender and Sexuality in History Credits: 3
- HIST 507 - Medieval Women Credits: 3
- HIST 508 - Medieval Everyday Life Credits: 3
- HIST 514 - European Wars of Religion, 1520-1660 Credits: 3
- HIST 516 - The Age of Enlightenment Credits: 3
- HIST 518 - Modern European Cultural History Credits: 3
- HIST 520 - The Renaissance Credits: 3
- HIST 521 - The Catholic and Protestant Reformations Credits: 3
- HIST 522 - Early Modern Europe Credits: 3
- HIST 523 - The French Revolution and Napoleon Credits: 3
- HIST 525 - World War II Credits: 3
- HIST 528 - Gender and War Credits: 3
- HIST 529 - Nazi Germany Credits: 3
- HIST 534 - The Russian Revolution Credits: 3
- HIST 535 – Stalinism Credits: 3
- HIST 540 - Islam and Colonialism in Africa Credits: 3
- HIST 541 - The African Diaspora Credits: 3
- HIST 542 - History of Buddhist Southeast Asia Credits: 3
- HIST 543 - History of Islamic Southeast Asia Credits: 3
- HIST 544 - The Japanese Empire Credits: 3
- HIST 545 - The Chinese Revolution Credits: 3
- HIST 546 - History of Thailand Credits: 3
- HIST 547 - History of Burma Credits: 3
- HIST 548 - History of Indonesia Credits: 3
- HIST 549 - History of Malaysia and Singapore Credits: 3

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- HIST 552 - British Empire Credits: 3
- HIST 553 - History of Northern Ireland Credits: 3
- HIST 554 - Victorian Britain Credits: 3
- HIST 556 - Ancient Mediterranean Credits: 3
- HIST 558 - Mediterranean World, 1450-1750 Credits: 3
- HIST 559 - The Atlantic World, 1492-1860s Credits: 3
- HIST 560 - Colonial America Credits: 3
- HIST 561 - The American Revolution Credits: 3
- HIST 562 - Early American Republic Credits: 3
- HIST 563 - Antebellum America Credits: 3
- HIST 564 - Civil War Era Credits: 3
- HIST 565 - Gilded Age and Progressive Era Credits: 3
- HIST 566 - Corporate America: 1900-1929 Credits: 3
- HIST 567 - The U.S. in Depression and War, 1929-1960 Credits: 3
- HIST 568 - America Since 1960 Credits: 3
- HIST 569 - The Vietnam War Credits: 3
- HIST 570 - America and Asia Credits: 3
- HIST 571 - Workers in U.S. History, 1787-Present Credits: 3
- HIST 572 - Topics in African-American History Credits: 3
- HIST 573 - Topics in Women's History Credits: 3
- HIST 574 - Immigration in the United States Credits: 3
- HIST 575 - The United States and Southeast Asia and the Indian Subcontinent Credits: 3
- HIST 576 - American Foreign Relations to 1914 Credits: 3
- HIST 577 - American Foreign Relations Since 1914 Credits: 3
- HIST 580 - Spies, Lies, and Secret Wars: CIA in the World Credits: 3
- HIST 581 - Indigenous Mexico Credits: 3
- HIST 582 - Mexico Since 1810 Credits: 3
- HIST 583 - Africans in Colonial Latin America Credits: 3
- HIST 584 - History of Brazil Credits: 3
- HIST 585 - Modern Latin American Revolutions Credits: 3
- HIST 586 - Inequality in Latin America Credits: 3
- HIST 587 - The Latin American City Credits: 3
- HIST 591 - Special Topics in History Credits: 3
- HIST 592 - Introduction to Public History Credits: 3
- HIST 594 - Oral History Credits: 3
- HIST 600 - Internship in Public History Credits: 3
- HIST 601 - Digital History Credits: 3
- HIST 610 - Reading Seminar in History Credits: 3-12
- HIST 699 - Master's Thesis Credits: 3
- HIST 710 - Research Seminar in History Credits: 3
- HIST 736 - Independent Study Credits: 3

**Concentration in Public History**



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Students pursuing the M.A. concentration ... .. normal requirements for the traditional M.A. degree described above. ~~A secondary field is not required.~~

↓

**Course Requirements (12)**

↓

**Recommended Electives**

- ANTH 562 - Museum Methods Credits: 3
- ↓
- ART 657 - Museum Education Credits: 3
- **COMS 557 - The Documentary Tradition Credits: 3**
- HIST 594 - Oral History Credits: 3
- **PSPA 656 - Management of Not-For-Profit Agencies Credits: 3**

~~**Other Available Electives**~~

- ~~• COMS 557 - The Documentary Tradition Credits~~

**Comprehensive Examination**

↓

Rationale: At a faculty meeting on February 17, 2021, the History Department voted to implement revisions to the requirements of its MA program. These will eliminate the coursework requirements for a primary and secondary field. This change is designed to simplify the curriculum and better reflect the coursework that students are expected to take. In a sense the primary and secondary fields were legacies of how the program operated in the past but no longer reflect the thematic nature of our reading and research seminars. A supplemental document included with this catalog revision explains the rationale more fully. The department is also using this opportunity to reconfigure how degree requirements appear in the catalog with the hope that this new and more specified structure will allow the requirements to function better in MyNIU. This catalog revision accompanies course revision proposals to HIST 610 and HIST 710. The department also would like to add PSPA 656 as a recommended elective to the Public History Concentration. The Department of Public Administration and Center for Nonprofit and NGO Studies requested this addition.

Impact Statement: The Department of Public Administration was consulted with regard to the addition of their course to the list of recommended electives. The department has not identified any negative impact on course availability, enrollment, or teaching loads with this change.

**Department of Psychology**

Other Catalog Change      **CLAS21.22.02.58**      2021-22 Graduate Online Catalog [LINK](#)

**Master of Arts in Psychology**

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The M.A. degree ~~program~~ in psychology requires a ... .. NIU as a student-at-large which can be applied toward the M.A. degree may not exceed 15.

↓

**Other Requirements**

**To earn an** ~~Students in the~~ M.A. ~~program~~ **degree, students** must maintain at least a 3.00 GPA in graduate psychology ... .. must be at least 3.00 or the student will be removed from the program.

↓

Rationale: These changes are for the purpose of grammar correction.

Other Catalog Change      **CLAS21.22.02.59**      2021-22 Graduate Online Catalog [LINK](#)

**Doctor of Philosophy in Psychology**

The Ph.D. program in psychology is built around the areas of clinical psychology, cognitive-~~instructional~~ **psychology**, developmental **psychology**, ~~school psychology~~, neuroscience and behavior, **and school psychology, and** social and industrial/organizational psychology. All ~~four~~ areas place strong emphasis on research, teaching, and the development of appropriate applied skills.

↓

Check departmental **and program** information for any additional requirements.

↓

**Requirements**

As a part of the doctoral program ... .. Students entering NIU with a master's degree in psychology from another institution must complete the master's foundation courses. **Students entering with a master's degree will also be required to complete an approved thesis-equivalent project prior to candidacy if a thesis was not completed as part of the master's degree, or if a thesis was completed but evaluated by program faculty as not meeting the thesis requirement.** With departmental approval, students with adequate background may be exempted from individual courses.

↓

The student must pass an extensive written candidacy examination ~~covering~~ **relevant to the student's curricular area. The examination may be a traditional exam or include broader activities relevant to preparation for doctoral candidacy.**

↓

Other special requirements may be determined by the department and the curricular area in which the student chooses to study.

Rationale: There is a *primary change* and several other *smaller changes*.

The *primary* change will allow students to apply directly to the Ph.D. or S.S.P. programs rather than apply to the M.A. program *with the intention* of continuing on to the Ph.D or S.S.P. At

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present, prospective students routinely ask how to apply to the Ph.D. or S.S.P. programs because they only see the option of applying to the master's program. This change will not alter any of the program requirements, and will bring our application process in line with other Ph.D. programs on campus.

The *smaller changes* are for the purpose of updating the catalog language to reflect current practice:

- a) clarified how master's requirements for students admitted with a master's from another institution would be handled (thesis-type activity to be required if thesis from previous program was absent or insufficient)
- b) mentioned broader scope of activities to be included in exam used for Ph.D. candidacy

Other Catalog Change      **CLAS21.22.02.60**      2021-22 Graduate Online Catalog [LINK](#)

**Specialist in School Psychology**

↓

**Requirements**

As a part of the S.S.P. program a student ... .... With departmental approval, students with adequate background may be exempted from individual courses.

~~Inclusive of the M.A. coursework, the student must complete 60 semester hours of graduate course work (psychology and/or the equivalent) beyond the baccalaureate degree. Semester hours used to satisfy the requirements for the M.A. may be applied, with no more but only than 6 semester hours of PSYC 656 (Internship in School Psychology) are allowed of those hours from the culminating required internship.~~ The total number of semester hours of graduate credit ... .... applied toward the S.S.P. degree may not exceed 35 semester hours beyond the baccalaureate degree.

↓

Rationale: The specification of PSYC 656 will allow this course to be programed in the advisement report in MyNIU. This is needed to limit the credit hours counted toward the SSP for internship.

**ALL UNIVERSITY SECTION**

**Interdisciplinary Academic Center and Courses**

Other Catalog Change      **CLAS21.22.03.10**      2021-22 Graduate Online Catalog [LINK](#)

**Latin American Studies (12)**

**Certificate of Graduate Study**

↓

**Requirements (12 credits)**



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**Three of the following (9)**

- ANTH 504 - Peoples and Cultures of the Caribbean Credits: 3  
↓
- ENGL 693 - Ethnic American Literature Credits: 3  
C. Latina/Latino American Literature
- **EPFE 505 - Foundations of Language-Minority Education Credits: 3**
- FLPO 561 - Brazilian Civilization Credits: 3  
↓
- HIST 720 - Research Seminar in Latin American History Credits: 3
- **LATS 597 - Independent Study in Latino and/or Latin American Studies Credits: 1-3**
- MUHL 626 - Survey of World Music Credits: 3  
↓
- POLS 673 - Foreign Area Politics Credits: 3  
K. Latin America

Rationale: The courses listed below are centered on, through various disciplinary approaches, Latin America and the Caribbean. These courses are relevant to and offer detailed knowledge on Latin America and the Caribbean. Adding these courses as formally recognized electives eliminates the necessity of a course substitution and will reduce the administrative burden associated with tracking a student's progress.

1. EPFE 505 - Foundations of Language-Minority Education Credits: 3
2. LATS 597 - Independent Study in Latino and/or Latin American Studies Credits: 3

Impact Statement: The Department of Leadership, Educational Psychology and Foundations was consulted regarding the addition of EPFE 505 to the list of options within the Certificate of Graduate Study in Latin American Studies. The department did not identify any negative impact on course availability, enrollment, or teaching loads with this change.

**Department of Anthropology**

Course Revision      **CLAS21.22.03.11**      2021-22 Graduate Online Catalog [LINK](#)

**ANTH 529 - International NGOs and Globalization**

**Crosslisted as SOCI 529X.** Review of the history of international nongovernmental organizations (INGOs) particularly changes since the advent of neoliberal globalization beginning in the late 1980s that heralded an “NGO boom.” An ethnographic examination of the political roles of INGOs and challenges negotiating multiple relationships with communities, governments, and social movements.

**Prerequisites & Notes**

PRQ: Consent of department.

Credits: 3

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Rationale: Addition of the crosslisting notation for SOCI 529X.

Notification: The Department of Anthropology was notified of this change via email on October 6, 2021.

**Department of Computer Science**

New Course                    **CLAS21.22.03.12**                    2021-22 Graduate Online Catalog LINK

**CIP Code: 11.0701      Course Component: LEC**

**CSCI 638 - Visual Analytics**

**Introduction to state-of-the-art theories and models in visual analytics and how to apply them in real world problems. A variety of visual analytics tools will be examined. Exposure to user experiment studies to understand how to evaluate visual analytics systems.**

**Prerequisites & Notes**

**PRQ: CSCI 613 or consent of department.**

**Credits: 3**

Rationale: For the rise of this important research field, Visual Analytics, and better prepare students with lifelong-beneficial skills to handle future data analysis challenges, I propose this course. Visual analytics is an emerging research field that gets increasingly important during the past 15 years. We are living in a world awash with information, generated at speeds and scales never before imagined. This fast-growing, big data offers us almost boundless opportunities to gain insights of ourselves and the world. However, sensemaking of big data remains a quite challenging problem. While a variety of advanced computing methods have been proposed, not everyone has strong background in computer science, math, and statistics. However, the majority of us share similar analytics needs in our daily life. How to design usable, interactive visual interface for supporting sensemaking activities is a key theme of visual analytics. This aims to benefit not only domain experts, but also common people in the whole society.

Non-Duplication: The Departments of Operations Management and Information Systems, Electrical Engineering, Mechanical Engineering, Industrial and Systems Engineering, and the School of Art and Design were consulted with regard to this course and have indicated there is no significant duplication with any of their current course offerings.

New Course                    **CLAS21.22.03.13**                    2021-22 Graduate Online Catalog LINK

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**CIP Code: 11.0701 Course Component: LEC**

**CSCI 640 - Advanced Data Management**

Efficient management of large-scale data for effective use in areas like machine learning and data visualization. Modern data management including data ingest, data cleaning, data curation, provenance, and cloud storage.

**Prerequisites & Notes**

CRQ: CSCI 503 or consent of department.

Rationale: This course fills a need for advanced topics in data management beyond the standard database curriculum. It supports the "Data Analytics" specialization in the Computer Science Ph.D. program and also provides skills useful for Masters students interested in data science.

Non-Duplication: The Department of Operations Management and Information Systems was consulted with regard to this course and has indicated there is no significant duplication with any of their current course offerings.

New Course      **CLAS21.22.03.14**      2021-22 Graduate Online Catalog LINK

**CIP Code: 11.0701 Course Component: LEC**

**CSCI 644 - Applied Machine Learning**

Hands-on approach to state-of-the-art machine learning algorithms with primary focus on their practical aspects. Topics include data preparation, data visualization, model selection, model interpretation and model evaluation. Assignments will cover training, evaluation, interpretation and debugging of machine learning algorithms.

**Prerequisites & Notes**

PRQ: CSCI 503 or consent of department.

**Credits: 3**

Rationale: This course provides a hands-on training to apply state-of-the-art machine learning models to the real-world datasets. It discusses some of the important challenges and tools to tackle them efficiently. This course will help students to prepare as a machine learning engineer.

Non-Duplication: The Departments of Mathematical Sciences, Statistics and Actuarial Science, Operations Management and Information Systems, Electrical Engineering, Mechanical Engineering, and Industrial and Systems Engineering were consulted with regard to this course and have indicated there is no significant duplication with any of their current course offerings.

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New Course                    **CLAS21.22.03.15**                    2021-22 Graduate Online Catalog LINK

**CIP Code: 11.0701      Course Component: LEC**

**CSCI 649 - Neural Networks for Computer Vision**

Foundations and implementations of neural networks (NN) algorithms in computer vision. Topics include basics of computer vision and machine learning, optimization and regularization of NN, variants of convolutional networks, RNNs, LSTM, Autoencoders and GANs. Training, implementation and evaluation of NN algorithms.

**Prerequisites & Notes**

PRQ: CSCI 503 and CSCI 644; or consent of department.

**Credits: 3**

Rationale: Neural Networks is the state-of-the-art artificial intelligence and machine learning algorithm widely used in industry and academia across the domain to solve challenging problems. There is ample demand for this skill in the job market, especially at graduate level. Currently, the computer science department does not have a specialized course for NN. This course intends to fill that gap.

Non-Duplication: The Departments of Electrical Engineering, Mechanical Engineering, and Industrial and Systems Engineering were consulted with regard to this course and have indicated there is no significant duplication with any of their current course offerings.

New Course                    **CLAS21.22.03.16**                    2021-22 Graduate Online Catalog LINK

**CIP Code: 11.0701      Course Component: LEC**

**CSCI 671 - Software Testing and Quality Assurance**

Principles of software testing and analysis. Students will become familiar with various levels of testing such as unit, integration, system, performance, acceptance and stress testing. They will develop an understanding of test lifecycle planning, test design & coverage analysis, test case selection, and complexity measurements.

**Credits: 3**

Rationale: Software testing and quality assurance is critical to point out the defects and errors that were made during the development phases. There is a growing demand for "Software engineer in test" and "QA" positions in current job market. Our current graduate curriculum

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does not offer this course or any similar course which cover topics related to software testing and quality assurance.

Non-Duplication: The Department of Operations Management and Information Systems was consulted with regard to this course and has indicated there is no significant duplication with any of their current course offerings.

New Course

**CLAS21.22.03.17**

2021-22 Graduate Online Catalog [LINK](#)

**CIP Code: 11.0701**    **Course Component: LEC**

**CSCI 674 - Advanced Topics in Software Engineering**

Advanced state-of-the-art concepts in software engineering. Explores the use of machine learning techniques to solve advanced problems in software engineering domain. Topics include risk and hazard analysis, design decisions, assurance cases, and safety assurance in autonomous vehicles. Discussion of relevant topics from published scholarly works.

**Prerequisites & Notes**

**PRQ: CSCI 513 and CSCI 644; or consent of department.**

Rationale: There are more advanced concepts in software engineering which are not covered in details in the "Software Engineering (CSCI-513)" course we offer. Therefore, this course is designed to cover such state-of-the-art topics.

Non-Duplication: The Department of Operations Management and Information Systems was consulted with regard to this course and has indicated there is no significant duplication with any of their current course offerings.

Other Catalog Change

**CLAS21.22.03.18**

2021-22 Graduate Online Catalog [LINK](#)

**Master of Science in Computer Science**

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Students pursuing the M.S. in computer science must complete at least ~~31~~ **ten graduate-level courses of 3 or 4 semester hours each. At least eight of the ten required courses must be in the Department of Computer Science.** ~~Students have the option of completing the M.S. degree in computer science by taking only~~ **must obtain prior departmental approval to apply** ~~courses or by combining course work with a master's thesis~~ **not offered by the Department of Computer Science to their programs of study.** For students who write a master's thesis, 6 semester hours of CSCI 699 will count as two of the ten courses required. **In addition, students must complete one semester hour of CSCI 600.**

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**Requirements (31-32)**

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Students must complete the required number of hours in each of the following areas:

- I. Survey (1)
- II. Programming (3)
- III. Systems (3-4)
- IV. Theory (3)
- V. Specializations (6)
- VI. Electives (15)

Total (31-32)

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**III. Systems**

Students must complete one course from the following:

- CSCI 511 - Database Concepts Credits: 3
- CSCI 512 - Computer Networks Credits: 3
- CSCI 513 - Software **Development and** Engineering Credits: ~~3~~ 4
- CSCI 514 - Operating Systems Credits: 3
- CSCI 515 - Principles of Compilers Credits: 3

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**V. Specializations**

Students must complete two courses from the following:

**Data Analytics and Artificial Intelligence**

- CSCI 636 - Pattern Recognition and Data Mining I Credits: 3
- CSCI 639 - Network Theory Credits: 3
- **CSCI 640 - Advanced Data Management Credits: 3**
- CSCI 641 - Big Data Analytics Credits: 3
- CSCI 642 - Information Storage and Retrieval Credits: 3
- **CSCI 644 - Applied Machine Learning Credits: 3**
- CSCI 646 - Modeling and Simulation Credits: 3
- CSCI 656 - Artificial Intelligence Credits: 3
- CSCI 657 - Natural Language Processing I Credits: 3

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**Bioinformatics**

- CSCI 651 - Applications of Graph Theory Credits: 3
- CSCI 652 - Algorithmic Bioinformatics I Credits: 3

**Software Engineering**

- **CSCI 671 - Software Testing and Quality Assurance Credits: 3**

**VI. Electives**

Students must complete sufficient ~~semester hours of~~ **elective courses** to fill out their program. Elective course work includes CSCI courses in the range 500-798 that have not been used to satisfy another requirement. ~~Students may take up to 8 semester~~

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~~hours from other departments in courses relevant to the student's program, subject to department approval.~~

Students who are planning to continue through the department's doctoral program ~~must~~ **should** take CSCI 701 - Research Methods in Computer Science, as one of their electives of the M.S. in Computer Science, preferably as early as possible.

Rationale: **1)** The proposed changes to the credit hour requirements in the MS program are a consequence of the proposed change in credit hours to CSCI 513. **2)** In partial support of the recently approved doctoral program in Computer Science, the department welcomed in Fall 2019 four tenure-track faculty. Each have made valued contributions to our graduate curricula in the form of new courses. These courses support our MS program (three proposed "Specialization" courses) aimed to meet to contemporary demands of the labor market as well as our doctoral program (three proposed "Advanced course work" courses) by preparing students to participate in the department's research programs. **3)** Three of six proposed courses are akin to those that are currently listed as "Data Analytics", and thus, rightly belong in that group. The category name, however, should be clarified to signal to students and prospective students that those courses study data analytics by applying artificial intelligence techniques (the two are closely related in the discipline). **4)** One of our new colleague's research program is in Software Engineering. Accordingly, we propose creating this category and therein listing the associated courses. **5)** Changes are being proposed regarding the manner in which requirements to the MS program are to be expressed. The fundamental difference is to change the expression of the requirements from its current state, credit hours, to number of 3-4 credit hour courses. The intent of this requirement remains the same, however, as the program's curriculum evolves, we expect to add more 4 credit hour courses (e.g., the current proposal to change CSCI 513). Consequently, expressing the requirement in terms of number of courses best retains the requirement's purpose. **6)** Relaxing the requirement for CSCI 701 from "must" to "should" adds a provision to accommodate students who initially enter the MS program without intent to enter our PhD program, but then later change their mind and decide to continue to our PhD program. The proposed revision allows those students to take CSCI 701 after they complete the requirements of their MS degree. We note that CSCI 701 is a requirement of our PhD program.

Other Catalog Change

**CLAS21.22.03.19**

2021-22 Graduate Online Catalog [LINK](#)

**Doctor of Philosophy in Computer Science**

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**III. Advanced course work (12)**

Students must take four courses chosen from the following:

**Data Analytics and Artificial Intelligence**

- CSCI 637 - Pattern Recognition and Data Mining II Credits: 3
- CSCI 647 - Advanced Discrete Simulation Credits: 3
- **CSCI 649 - Neural Networks in Computer Vision Credits: 3**

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- CSCI 658 - Natural Language Processing II Credits: 3
- CSCI 659 - Intelligent Interactive Systems Credits: 3

**Graphics and Visualization**

- CSCI 628 - Information Visualization Credits: 3
- CSCI 629 - Scientific Visualization Credits: 3
- CSCI 632 - Advanced Computer Graphics Credits: 3
- CSCI 634 - Computer Vision Credits: 3
- CSCI 635 - Virtual Reality Credits: 3
- CSCI 638 - Visual Analytics Credits: 3

**Bioinformatics**

- CSCI 653 - Algorithmic Bioinformatics II Credits: 3

**Software Engineering**

- CSCI 674 - Advanced Topics in Software Engineering Credits: 3

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**Oral Dissertation Defense**

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Rationale: **1)** In partial support of the recently approved doctoral program in Computer Science, the department welcomed in Fall 2019 four tenure-track faculty. Each have made valued contributions to our graduate curricula in the form of new courses. These courses support our MS program (three proposed “Specialization” courses) aimed to meet to contemporary demands of the labor market as well as our doctoral program (three proposed “Advanced course work” courses) by preparing students to participate in the department’s research programs. **2)** The category listed as “Data Analytics” should be clarified to signal to students and prospective students that those courses study data analytics by applying artificial intelligence techniques (the two are closely related in the discipline). **3)** One of our new colleague’s research program is in Software Engineering. Accordingly, we propose creating this category and therein listing the associated courses.

**Department of Sociology**

New Course

**CLAS21.22.03.20**

2021-22 Graduate Online Catalog LINK

CIP Code: 45.1101

Course Component: LEC

**SOCI 529X - International NGOs and Globalization**

*Crosslisted as ANTH 529.* Review of the history of international nongovernmental organizations (INGOs) particularly changes since the advent of neoliberal globalization beginning in the late 1980s that heralded an “NGO boom.” An ethnographic examination



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of the political roles of INGOs and challenges negotiating multiple relationships with communities, governments, and social movements.

**Prerequisites & Notes**

PRQ: Consent of department.

Credits: 3

Rationale: This course is a graduate section of NNGO 429. It is currently crosslisted at the undergraduate level as SOCI 329 and ANTH 429 and at the graduate level as ANTH 529. This change would create parity, allowing graduate students to enroll when it is taught by a sociology faculty member. Currently, we are having to enroll students in independent study credits to allow them to take the course at a graduate level.

Non-Duplication: None. This is a crosslisting for an existing course.

New Course

**CLAS21.22.03.21**

2021-22 Graduate Online Catalog LINK

CIP Code: 45.1101

Course Component: LEC

**SOCI 584 - Rethinking Justice: Alternatives to the Traditional Court System**

Sociological examination of problem-solving courts (mental health courts, veteran courts, and drug courts) serving as alternatives to the traditional court system. Focus on philosophical and historical backgrounds of these courts in comparison to the traditional court system, as well as the theoretical explanations for these non-traditional court systems.

**Prerequisites & Notes**

PRQ: Graduate standing in Sociology or consent of department.

Rationale: Over the last forty years, over 3,000 problem-solving courts have opened across the United States. Additionally, the topic is a very timely one given the increasingly known negative consequences of the traditional justice system and the more recent popularity of the alternative justice systems as a means to repair harm to the community, keep the offender integrated into the community, and lower the costs of imposing sanctions. This course content will also help our students who are pursuing careers in the justice system (such as probation officers) and those seeking careers focused on research in criminology. This course would meet requirements for the criminology track in our Master's program and provide community engagement for students to conduct and gain skills in research.

Non-Duplication: The Departments of Anthropology, History, Nonprofit and NGO Studies, Philosophy, and Political Science were consulted with regard to this course and have indicated there is no significant duplication with any of their current course offerings.

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**COLLEGE OF HEALTH AND HUMAN SCIENCES**  
**SCHOOL OF ALLIED HEALTH AND COMMUNICATIVE DISORDERS**

Other Catalog Change      **CHHS21.22.04.02**      [LINK](#) 2021-2022 Graduate Catalog

Allied Health and Communicative Disorders



**Certificates of Graduate Study**



**Multicultural Certificate in Speech-Language Pathology (12)**

The Multicultural Certificate in Speech-Language Pathology is available for individuals who are admitted to the graduate program in Communicative Disorders with a specialization in Speech-Language Pathology. The goal of the certificate is to provide advanced training in evidence-based assessment and intervention with individuals across the lifespan who are from culturally and linguistically diverse backgrounds. It is available to speech-language pathology students who are monolingual and bilingual.

Admission to the certificate program requires approval of the Multicultural Certificate admission committee. Procedures for admission to this certificate and other certificate information are available from the School of Allied Health and Communicative Disorders office and on the [website](#). The deadline for applications is August 15 in a student's first year of study.

Students must maintain a minimum 3.00 GPA in all course work and earn a B or better in all certificate courses, and remain in good standing in the Communicative Disorders with a specialization in Speech-Language Pathology program to continue in the certificate program.

A minimum of 12 course credits are required for completion of the Graduate Certificate. To gain field experience, students must also complete experiential learning requirements in the field of speech-language pathology as part of COMD 700.

**Required Coursework (12)**

COMD 610: Multicultural Aspects of Speech-Language Pathology (3)

COMD 700: Portfolio (0)

COMD 775- Seminar in Speech-Language Pathology (3)

HDFS 588: Working with Ethnically Diverse Children & Families in the U.S. (3)

LTIC 547- Assessment of Language Minority Students (3)

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**RATIONALE:**

Developing a multicultural certificate at the graduate level to train speech-language pathology students to provide evidence-based assessment and intervention to all individuals, including individuals across the lifespan from culturally and linguistically diverse backgrounds. The multicultural certificate would be available to both **monolingual** and **bilingual** students. Currently, 94% of speech-language pathology membership in the American Speech-Language-Hearing Association identify as non-Latino white and only 6.5% report being bilingual. The 2020 census reported only 60% of the population as non-Latino white and 21% are bilingual. Therefore, there is a large disparity in terms of race and ethnicity between the professionals and the individuals they serve. Adding this certificate will increase the appeal of our program to students wanting to serve diverse populations.

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**COLLEGE OF BUSINESS  
DEPARTMENT OF FINANCE**

Change in course prerequisite      **CBUSGR21.22.02.01** Graduate Catalog [LINK](#)

FINA 629 – Financial Planning Case Studies

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Prerequisites & Notes

PRQ: FIN 615 **515**, and FINA 620, and FINA 626 **526**, and FINA 627.

Credits: 3

*Rationale: To correct course numbering errors in the catalog.*

**COLLEGE OF ENGINEERING AND ENGINEERING TECHNOLOGY  
DEPARTMENT OF INDUSTRIAL AND SYSTEMS ENGINEERING**

Course Revision: change in course description      **CEET21.22.05.01** 2021-22 Catalog [Link](#)

ISYE 536. APPLIED REGRESSION ANALYSIS FOR ENGINEERING (3). Statistical techniques **and software** for modeling, designing, and investigating relationships among variables in engineering processes. Engineering applications of **simple and multiple** linear regression ~~with one predictor variable, multiple linear regression, and forecasting,~~ **prediction, model selection and regression trees.** ~~and time series analysis.~~

PRQ: ISYE 335 or consent of department

*Rationale: Description of the course is updated to offer an updated overview of the course contents. The statistical techniques this course covers are updated to reflect the state of the art in regression analysis and education. This course also covers statistical programming with R, one of the most widely used programming language for statistical analysis in research and industry.*

**COLLEGE OF LIBERAL ARTS AND SCIENCES  
Department of Computer Science**

Course Revision      **CLAS21.22.03.09** 2021-22 Graduate Online Catalog [LINK](#)

**CSCI 513 - Software **Development and** Engineering**

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~~Software development and e~~Engineering methods, including requirements gathering, specification, design, implementation, and testing principles to develop dependable software systems. Software life cycle models and process including requirements gathering, architectural patterns and tactics, design patterns, various test granularity such as team development and agile methods. Use of development tools and automated support techniques for testing. Agile process in teams using collaborative environments. Extensive laboratory work.

**Prerequisites & Notes**

~~PRQ: Admission to the graduate program in computer science or consent of department.~~ CRQ: CSCI 501 or CSCI 502; and consent of department.

Credits: ~~3~~ 4

Rationale: This updates the course to contemporary industry practices. Specifically, the “agile” process and working in collaborative teams with associated tools have become the industry norm. Consequently, extensive computer programming assignments and large-scale projects will be added to the course increasing the credits from 3 to 4. Students will be expected to complete those assessments by working in teams. New CRQs added are more appropriate preparation for CSCI 513.

Approval: The revision and checklist items have been reviewed and approved by the CLAS Curricular Dean on October 6, 2021.