

11-28-2005

University of Northern Iowa Faculty Senate Meeting Agenda, November 28, 2005

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UNIVERSITY OF NORTHERN IOWA FACULTY SENATE
Agenda for Meeting of November 28, 2005
3:15 P.M. Great Reading Room, Seerley Hall

CALL TO ORDER

APPROVAL OF MINUTES

ANNOUNCEMENTS

1. Call for Press Identification
2. Comments from Interim Provost Lubker
3. Comments from Faculty Chair, Sue Joslyn
4. Comments from Chair Bankston

CONSIDERATION OF CALENDAR ITEMS FOR DOCKETING

- 893/803 Annual Report from the Liberal Arts Core Committee
2004-2005 Academic Year
- 894/804 Curriculum Package Fall 2005

NEW BUSINESS

ONGOING BUSINESS

- 799 Parking Resolution

CONSIDERATION OF DOCKETED ITEMS

ADJOURNMENT

UNIVERSITY OF NORTHERN IOWA FACULTY SENATE

Calendar item 893

Docket Number _____

Title: Annual Report from the Liberal Arts Core Committee, 2004-2005

Academic Year

Standard Motions

- 1. Place at head of docket, out of regular order.
- 2. Docket in regular order.
- 3. Docket because of special circumstances for _____
And notify sender(s).
- 4. Refer to (standing committee) _____
- 5. Refer to (administrative officer) _____
- 6. Refer to (ad hoc committee) _____
- 7. Return to petitioner with request for a more specific proposal.
- 8. Return to petitioner with request for additional information and documentation.
- 9. Return to petitioner because of decision not to docket at this time.
- 10. Other procedural disposition _____

NOTES

MEMORANDUM

TO: University Faculty Senate

FROM: Beverly Kopper
Coordinator, Liberal Arts Core

SUBJECT: Annual Report from the Liberal Arts Core Committee
2004-2005 Academic Year

DATE: October 5, 2005 (Approved November 11, 2005)

Part of the mission of the University of Northern Iowa is to provide a personalized learning environment that is founded on a strong liberal arts curriculum. Objective 1.3 in the 2004-2009 Strategic Plan is to increase understanding of and commitment to the role and value of a liberal arts education as the foundation of a university education. Objective 2.3 is to support and strengthen collaboration among Arts and Sciences, Business, and Education faculty as it pertains to the Liberal Arts Core, Teaching Preparation and other university-wide programs. The Liberal Arts Core (LAC) Committee worked diligently during the 2004-2005 academic year to meet these objectives by focusing on the following areas: (1) program management; (2) category reviews; (3) new Capstone Experience courses and evaluation of the new model; and (4) student outcomes assessment. The activities undertaken and completed related to these areas are discussed below. Continuing concerns and future directions of the Committee are also discussed. The final paragraphs list the Committee members for the 2004-2005 academic year.

Program Management

The overall principles that guide the LAC Committee's work include a commitment to enhancing the LAC and ensuring quality and academic excellence within the Core. These principles are based upon the belief that the LAC forms the foundation for the University's undergraduate programs and that the success of the LAC is ultimately reflected in the extent to which UNI graduates go on to lead lives that are thoughtful, productive, personally meaningful, and socially responsible. The seriousness of these principles is evident in the nature of the work of the Committee members as they put aside their disciplinary allegiances and address issues that are of university wide importance.

This year the LAC Committee addressed these principles by focusing on program management. A central focus of the Committee's deliberations regarding LAC program management included: (1) consistency and quality across multiple sections of courses; (2) feedback mechanisms; (3) number of courses taught by tenured and tenure-track faculty; (4) registration difficulties faced by students; (5) grading practices and standards; and (6) quality teaching. The LAC Committee is also cognizant of the need to increase the understanding and support of the LAC among students, faculty, staff,

parents and administrators. The LAC Committee discussed these issues and its recommendations with the University Faculty Senate during the Senate retreat at the beginning of the fall 2005 semester (see Appendix A). The LAC Committee is working on a proposal related to the LAC categories and the formation of category coordinating committees to address some of the program management issues.

The LAC Coordinator continued to focus on activities designed to increase understanding of and commitment to the role and value of a liberal arts education as the foundation of a university education at UNI. In presentations to parents of new first year and transfer students during winter, spring, summer and fall orientation sessions, the Coordinator discusses the importance of the LAC. The importance of the LAC is also discussed with all first-year students, during these orientation sessions. The Coordinator also discusses the LAC with the summer orientation faculty advisors and student staff.

The Coordinator continued to meet with the Academic Advising Advisory Council to discuss the activities of the LAC Committee, receive feedback from the advisors, and discuss ways of improving the LAC. These types of meetings are seen as an important means of enhancing the overall effectiveness of the Core by opening up communication lines and facilitating collaboration among those involved in the various aspects of the Core. The Coordinator, in conjunction with the Associate Provost, also maintains contact with the Registrar, Associate Registrar and Director of Academic Advising during the registration process to monitor the LAC course enrollment patterns and course needs. The Coordinator also is participating in a post-mortem committee on summer registration held with representatives from Academic Affairs and Education & Student Services during the summer and continuing this fall to facilitate the registration process, especially as it relates to LAC courses.

Category Reviews

A central responsibility of the LAC Committee is to oversee the category review process. During the 2004-2005 Academic year, the Committee dealt with the Communication Essentials and Personal Wellness Category Reviews. The results of these Reviews and the Committee's recommendations are shared with the University Faculty Senate and appropriate University administrators in order to enhance and support the review areas and the entire LAC.

Communication Essentials

The Communication Essentials Review was conducted during the 2003-2004 academic year. The Final Report was received on February 4, 2005 and discussed with the Review Team on February 25, 2005. The LAC Committee voted to accept the Report on April 8, 2005. The LAC Committee Category Review Summary was approved on April 29, 2005 and reported to the University Faculty Senate on September 26, 2005.

Personal Wellness

The Personal Wellness Category Review was completed during the 2004-2005 academic year. The completed Report was received on June 30, 2005 and will be discussed with the Review Team and the University Faculty Senate during the fall 2005 semester.

Category 2 (Civilizations & Cultures)

Category 2 is scheduled for review during the 2005-2006 academic year. To facilitate this process, representatives from the LAC Committee met with the Review Team on April 4, 2005 to discuss the review process and student outcomes assessment, distribute necessary materials and answer any questions Review Team members might have. Michael Shott, CSBS Representative will be serving as the LAC Committee liaison for this review.

Data Collection

The LAC Committee met with Registrar Phil Patton and representatives from the Office of Information Management & Analysis, Thulasi Kumar and Kristin Mosher on March 25, 2005 to discuss ways to facilitate the data collection process for category reviews. The Registrar suggested that he, Dr. Kumar, Ms. Moser and Associate Registrar Patti Rust, could meet to further discuss this issue. The Committee looks forward to their recommendations.

New Capstone Experience Model

New Capstone Experience Courses

The LAC Committee reviewed several new Capstone Experience courses. As part of the review process, the Committee invited the faculty member to an LAC Committee meeting to discuss their proposal. Of the 21 courses that were reviewed, 19 were approved (see outline below).

Title	Instructor	College
Bio-medical Ethics	Francis Degnin	CHFA
Perspectives on Death and Dying	Francis Degnin	CHFA
Science, Mathematics, and Technology in the Americas	Joel Haack	CNS
Theatre in Education	Gretta Berghammer	CHFA
Communication Disorders and Society	Ken Bleile	CHFA
Building Communities: Developing Intentional Family Spaces	Gowri Betrabet-Gulwadi Elise Radina	CSBS
Democracies	Thomas Fogarty Ana Kogl	CSBS

Analysis of Contemporary Social Issues	Keith Crew John Johnson	CSBS
Prehistory of Environmental Impact	Michael Shott	CSBS
Medicine, Morality, and Society: The Social Construction of Health and Illness	Kent Sandstrom	CSBS
Creativity and the Transformation of Culture	Gary Gute	CSBS
Greece: From the "Cradle of Democracy" to Today	Greg Bruess	CSBS
Minority-Majority Group Relations in the U.S.	Laura Praglin	CSBS
Leadership and Professional and Civic Responsibility	Gerri Perreault Donna Vinton	COE/ESS
Living in Our Techno-social World	Doug Hotek Phyllis Baker	CSBS/CNS
Obesity and Diabetes: Science, Sociology, and Economics	Carl Thurman	CNS
The Holocaust in Literature and Film	Siegrun Wildner	CHFA
Science and Pseudoscience: Critiquing the World Around You	Seth Brown Kimberly Cline-Brown	CSBS
Ethics in Communication	April Chatham-Carpenter	CHFA

Capstone Evaluation

As requested by the University Faculty Senate, the LAC Committee conducted an evaluation of the Capstone Experience model. The Committee developed and piloted a Capstone Student Survey and Faculty Capstone Survey during the fall 2004 semester. Based upon the pilot study, the survey instruments were refined. During the spring 2005 semester the instructors of all Capstone Experience classes (24 Environment, Technology & Society; 14 new Capstone Experience courses) were asked to complete a Faculty Capstone Survey and to allow a member of the Liberal Arts Core Committee to attend one of their classes to administer the Capstone Student Survey. Eighteen Environment, Technology & Society classes were surveyed including 458 students and 10 instructors. Twelve new Capstone Experience classes were surveyed including 248 students and nine instructors. The results of the evaluation (9/16/05 Report) have been forwarded to the University Faculty Senate.

Student Outcomes Assessment

The Progress Report on the General Education program and its assessment was submitted on October 1, 2004 to our accrediting body, the North Central Association (NCA) of Colleges and Schools. As noted in previous annual reports, the LAC Committee, particularly the LACC Student Outcomes Assessment (SOA) Subcommittee has been working on developing a comprehensive student outcomes assessment program to evaluate the learning outcomes of the LAC and to address the concerns of the NCA accreditation team that, "There is a need to better integrate the assessment of

student academic achievement, through outcomes assessment, across an integrated General Education curriculum (Final Report, 2/2001, p.57).

As part of the SOA Plan, the Academic Profile (a standardized assessment instrument) was administered by the LAC SOA Subcommittee to a sample of first-year students during the fall 2004 semester and junior and senior students during the spring 2005 semester. The College Student Experience Questionnaire (CSEQ) was administered to a sample of first-year, junior and senior students by the Educational & Student Services Division (with financial support from the Academic Affairs Division) during the spring 2005 semester. The Graduating Senior Survey was administered by the Office of Information Management and Analysis during the 2004-05 academic year. The LAC Committee will be discussing the learning outcomes and the SOA Plan for the Core during the 2005-06 academic year.

Summary

The activities noted above have been undertaken to help reach Objective 1.3 in the 2004-2009 Strategic Plan to increase understanding of and commitment to the role and value of a liberal arts education as the foundation of a university education and Objective 2.3 to support and strengthen collaboration among Arts and Sciences, Business, and Education faculty as it pertains to the Liberal Arts Core, Teaching Preparation and other university-wide programs.

These efforts also reflect the Committee's deep commitment to providing our students with a liberal arts education that develops students' integrative understanding of the knowledge and proficiencies needed for realizing one's potential, instilling a life-long desire to learn, and contributing to societal well-being. Likewise, the Committee hopes these activities also support faculty's efforts to provide our students with the knowledge and intellectual proficiencies that are characteristic of a liberal arts education and a well-educated person.

Continuing Concerns and Future Directions of the Committee

1. Improving program management and ensuring consistency and quality of LAC courses.
2. Encouraging the allocation of appropriate resources to offer LAC courses.
3. Continuing to develop a student outcomes assessment plan that will enhance the quality of the LAC.
4. Evaluating and improving the category review process.
5. Improving grading practices and standards.
6. Reducing the registration difficulties faced by students regarding LAC courses.
7. Increasing the number of LAC sections taught by tenured or tenure-track faculty.
8. Increasing the understanding and support of the LAC among students, faculty, staff, administrators and parents.
9. Integrating the purpose and goals of each Category into the individual courses taught in that category.

- 10. Maintaining appropriate class sizes, particularly in writing intensive and highly interactive courses.
- 11. Encouraging the development and evaluation of Capstone Experience courses.

Committee Membership: 2004-2005

Voting Members

Kenneth Baughman	CHFA
Nadene Davidson	COE
Siobahn Morgan	CNS
Michael Shott	CSBS
Jerry Smith (Vice Chair)	COBA
Alan Asher	Library
Cliff Chancey	University Faculty Senate
Joe Murphy	Student Representative

Non-voting Members

Beverly Kopper (Chair, Coordinator)	Academic Affairs
Donna Vinton	Academic Advising
Susan Koch	Associate Provost
Philip Patton	Registrar
Lori VanHooreweghe	Academic Achievement

Appendix A

Liberal Arts Core Program Management: WORKING DRAFT September 2, 2005 (Discussed with the University Faculty Senate on 9/10/05)

The overall principles that guide the Liberal Arts Core (LAC) Committee's work include a commitment to enhancing the LAC and ensuring quality and academic excellence within the Core. These principles are based upon the belief that the LAC forms the foundation for the University's undergraduate programs as reflected in the University's mission statement to provide a personalized learning environment that is founded on a strong liberal arts curriculum. In honoring this commitment, the LAC Committee has an on-going dialogue regarding critical issues facing the LAC and what can be done to improve the quality of the Core. The LAC Committee has discussed many issues related to the overall management of the Core and is seeking the University Faculty Senate's involvement in this dialogue. Thus, the Committee formulated this working draft as a means of facilitating our discussion.

Introduction

The term "program management" refers to management activities and structures intended to insure that a program performs effectively in pursuit of its goals. The Liberal Arts Core (LAC) is currently managed through two mechanisms:

The Liberal Arts Core Committee (LACC) serves as the means by which the UNI faculty discharges its management responsibilities, primarily with regard to the curriculum. In addition to reviewing proposed curricular and other changes on an ongoing basis, the LACC conducts periodic "category reviews," these being the primary means by which the adequacy of the program's curriculum is assessed.

On the administrative side, the Liberal Arts Core is managed by the LAC Coordinator, acting on behalf of the provost, and by college deans and department heads. Among other things, these people schedule LAC courses, make teaching assignments, and monitor instructional performance.

There are reasons to believe that the existing management structures and efforts are insufficient. Most strikingly, recent experience with the Capstone course disclosed substantial faculty and student dissatisfaction with a course that should have been one of the program's highlights. Though this dissatisfaction was acknowledged during the relevant category review process, it should have been highlighted and addressed much earlier. In addition, faculty and students, in informal discussions about other LAC courses, often cite instances of poor teaching, inconsistent course content across sections, and undisciplined grading practices. The severity and extent of these problems are not known, but they suggest the need for a reassessment of existing program management practices.

The need for such a reassessment is also supported by the following considerations: First, category reviews, being conducted on a six-year cycle, are not frequent enough or sufficiently "close to the ground" to effectively monitor classroom delivery of the program. Second, college deans, department heads, and faculty are understandably more likely to focus on their own programs at the expense of the LAC. It is not unreasonable to expect that some faculty and administrators, perhaps many, are not giving this program the attention it deserves.

Accordingly, it is argued, there is a need to review and possibly revise the LAC's existing program management structures and practices. In doing so, it is important to recognize that needed changes may or may not create new responsibilities for the LACC. Nonetheless, the LACC can and should take the initiative in promoting change.

LACC Program Management Initiatives

Some program management activities clearly fall within the purview of the LACC's existing authority. The following initiatives seem to be the most promising of this kind.

Facilitation of Category Reviews. Periodic category reviews will continue to be part of the LAC's program management structure. The value of this component can be increased if related data collection tasks are made less burdensome for category review teams, so they can devote more of their efforts to analyzing and evaluating category/course objectives and performance. Thus, the LACC should establish routine data collection mechanisms that accumulate information needed for category reviews on an ongoing basis, making this data available to review teams as they are formed. The LACC should also develop a set of frequently used, user-friendly tools—for instance, procedures for doing on-line surveys—that review teams can access and employ, thereby easing the learning curve team members must currently go through.

Faculty Coordinating Committees. One mechanism used in the past to insure the consistency of content and quality of teaching in LAC courses is the faculty coordinating committee. Established for particular categories and/or courses, some of these committees are active and effective; others are not. The LACC should develop means of maintaining these committees, establishing new ones where needed, and making them an integral part of our program management efforts. During the spring of 2005, the LACC approved a proposal serving this end. Implementation will begin in the fall of 2005.

Student Outcomes Assessment (SOA). Outcomes assessment is a relatively recent addition to the LACC's responsibilities. Though undertaken, in part, in response to accreditor and other outside demands, SOA can be used for program management purposes. It is expected that, working with category review teams and faculty coordinating committees, the LACC will continue to implement and refine a comprehensive outcomes assessment program for the Liberal Arts Core. Over time, we will learn the ways in which SOA data can and cannot be used to manage this program.

Course Selection. Some of the LAC's program and category objectives can be achieved through a variety of course offerings; the new Capstone requirement is the obvious example. The LACC has encouraged faculty to propose and teach innovative courses that meet program needs. As the level of this activity increases, the LACC may find that it has an opportunity to improve program quality by making greater use of courses and instructors that are effective and well-received by students, while reducing course offerings that are not as effective.

Other Program Management Issues

In addition to the foregoing, the following are significant issues that might be addressed as part of an LAC program management initiative. However, owing to their content and

potential for controversy, before the LACC pursues any of these, it should seek the advice and support of the UNI Faculty Senate.

Student Feedback Mechanisms. To know if there are problems with LAC courses, we must create means by which students can provide feedback on their experiences. Lacking access to the results of student evaluations, we should develop other means of identifying their concerns about LAC courses. At a minimum, we should provide a convenient and secure channel by which students who are unhappy with a course—say, an instructor routinely cancels classes—can communicate their dissatisfaction. It should go without saying that any information received by such means cannot be assumed to be valid.

Grading Practices and Standards. At one time in the past, the LACC routinely received information on student grades for each section of each LAC course. The LACC should consider reinstating this practice, using the information to monitor both the levels and within-section variances of grades. The LACC could also develop recommended standards regarding mean GPAs and grade distributions for classes. Publication of such might have a considerable effect on faculty who grade too leniently or who don't adequately discriminate between high and low performers.

Content Consistency Across Sections. Though some LAC courses benefit from cross-section diversity of content, in most cases, consistency of content is needed so students in different sections get, roughly, the same course. Inconsistency has been a serious problem in some courses, notably "Environment, Technology, and Society." A major objection students raised against our previous Capstone requirement was that the "same" course was so different when taught by different instructors. Other LAC courses—notably the Humanities sequence—teach "core knowledge," what we want all UNI graduates to know. Faculty in such courses may collectively devise lists of required topics and acceptable readings, to insure that students in all sections are exposed to the designated core knowledge. Here the need to maintain content consistency is even greater. We should insure that there is an appropriate level of content consistency across sections of LAC courses, through the efforts of faculty coordinating committees or by establishing new mechanisms, if necessary.

Quality of Teaching. The Liberal Arts Core can have a state-of-the-art curriculum, be taught with small class sizes in modern facilities, be taught to motivated, intelligent students, and yet fail on account of poor teaching. Thus, program management structures must insure that all instructors in LAC courses give their best efforts—that, for instance, faculty don't "blow off" LAC teaching assignments. Steps should also be taken to insure that only qualified instructors—good teachers who are knowledgeable in the relevant field—are hired for adjunct and term teaching roles.

Instructor Review Procedure. Realistically, efforts to improve grading practices, to raise the quality of teaching, and to increase consistency of content across sections will have a limited effect unless they are backed up by sanctions. Instructors who persist in undesirable practices must face the threat of negative consequences. We should develop a procedure for reviewing the performance of instructors who have been found to consistently fall short of reasonable standards. Such a procedure would rely heavily on existing administrative structures (e.g., faculty performance reviews and consultations by deans and department heads), and would be designed in light of pertinent union contract provisions. Plausible procedures might culminate in non-complying instructors

being disqualified from LAC teaching assignments. Presumably this mechanism would only be employed in the most extreme cases. However, its mere existence might motivate some instructors to improve their performance.

Staffing. There is considerable evidence that LAC courses have not always received appropriate staffing consideration from deans and department heads. (See, for instance, Item #2 on the Category Review Summary for Communication Essentials that will soon be submitted by the LACC to the Faculty Senate.) Too often, full-time faculty are assigned to teach departmental courses, while term and adjunct instructors are used to teach LAC sections. This has happened even with faculty hires/lines that were specifically intended to provide coverage of LAC courses. The LACC and Faculty Senate, acting on behalf of the UNI faculty, should reaffirm the importance of this program by negotiating with administrators and monitoring teaching assignments to insure that an appropriate percentage of LAC sections are taught by full-time tenured and tenure-track faculty.

LAC Teaching Awards. With every stick there should be a carrot. UNI has awards that recognize various efforts and accomplishments, including the Outstanding Graduate Faculty Teaching Award for teaching in its graduate programs. Colleges and departments do the same. The university should establish an award for high-quality teaching in the Liberal Arts Core. Mechanisms for identifying candidates and selecting recipients can be devised. Such an award would motivate LAC faculty and provide recognition for the many outstanding efforts that faculty routinely make in these courses.

Whichever of these program management initiatives are pursued, assuredly their implementation will be a gradual process, extending over several years. Thus, we anticipate that program management, as a whole, will continue to be a primary concern of the LACC for the foreseeable future.

UNIVERSITY OF NORTHERN IOWA FACULTY SENATE

Calendar item 894

Docket Number _____

Title: Curriculum Package Fall 2005

Standard Motions

- ___ 1. Place at head of docket, out of regular order.
- ___ 2. Docket in regular order.
- ___ 3. Docket because of special circumstances for _____
And notify sender(s).
- ___ 4. Refer to (standing committee) _____
- ___ 5. Refer to (administrative officer) _____
- ___ 6. Refer to (ad hoc committee) _____
- ___ 7. Return to petitioner with request for a more specific proposal.
- ___ 8. Return to petitioner with request for additional information and documentation.
- ___ 9. Return to petitioner because of decision not to docket at this time.
- ___ 10. Other procedural disposition _____

NOTES

REPORT TO THE UNIVERSITY FACULTY SENATE

from the

UNIVERSITY COMMITTEE ON CURRICULA

and the

GRADUATE COUNCIL

The University Committee on Curricula and the University Graduate Council submit the following report to the University Faculty Senate and recommend that changes be made in the catalog listings of programs and course offerings as stated in this report.

NOVEMBER 2005

ACCOUNTING

120:145g New Course. Principles of Fraud Examination -- 3 hrs.
Examination of motivation, prevention, detection, investigation
and resolution of fraud. Prerequisites: 120:030; 120:031;
120:129; 120:130; 120:134; 120:136; 150:080; junior standing.

Online 120:132 Change prerequisites (Income Tax). Prerequisites: 120:030;
junior standing.

Online 120:136 Change title, and description. Title from (Computerized
Accounting Systems) to "Accounting Information Systems."
Description: Analysis of computer-based accounting information
systems including flowcharting of business processes and study
of internal controls; course involves significant manual and
computerized practice cases.

186 Restatement

--Revise to read:

No Accounting courses may be taken on a credit/no credit basis by
an Accounting Major or by an individual designated as CPA
Advanced Study status, except 120:169, 120:170, 120:179, and
120:269.

Restatement (page 65)

Restatement of paragraph following Accounting Major

--Revise to read:

While Accounting Majors are not required to take accounting electives,
the following electives are offered: 120:135, 120:139, 120:141,
120:142, 120:145.

(The remainder of the paragraph remains the same)

ECONOMICS

Online 920:116g Change title, and description. Title from (Labor Economics) to "Economics of Labor Markets." Description: An investigation into the market forces affecting the supply of and demand for labor and the determination of wages in the U.S. Discussion topics may include income maintenance programs, health and safety in industry, income inequality, human capital formation and/or labor mobility.

Online 920:123g Change description (Environmental Economics). Description: Achieving allocative efficiency and cost-effectiveness when setting environmental policy. Modeling environmental quality as a public good and pollution as an economic problem. Assessing the command-and-control approach versus the market approach to environmental problem solving and policy. Exploring historical and current policies on air quality, water quality, solid waste/toxic substance management, and/or global environmental management.

Online 920:160g Change prerequisites (Managerial Economics). Prerequisites: 920:053; 920:054; 920:104 or consent of instructor; junior standing.

Online 920:177 Change prerequisites (Internship in Community Economic Development). Prerequisites: 920:053; 920:054; 920:125; 920:148; does not count towards the economics major.

COMMUNITY ECONOMIC DEVELOPMENT CERTIFICATE (new certificate)

Certificate in Community Economic Development

The certificate in Community Economic Development is available to declared majors in the College of Business Administration only. The purpose of the Certificate is to educate and train students to fill the need for informed economic development practitioners. For more information and to enroll in this program, students must contact Head, Department of Economics.

Required: 9 hours

- 920:125g* Cost Benefit Analysis (3 hrs)
- 920:148g* Urban and Regional Economics (3 hrs)
- 920:177** Internship in CED (3 hrs)

Electives: 6 hours

- 920:116g* Economics of Labor Markets (3 hrs)
- 920:117g* Public Finance (3 hrs)
- 920:123g* Environmental Economics (3 hrs)
- 942:048 Introduction to Public Administration (3 hrs)
- 942:132*** Community Politics (3 hrs)

970:101 Economic Geography (3 hrs)
970:121g****Locational Analysis for Business (3 hrs)

Total: 15 hours

*920:116g, 920:117g, 920:123g, 920:125g and 920:148g have prerequisites of 920:053; 920:054; and junior standing.
**920:177 has prerequisites of 920:053; 920:054; 920:125g; 920:148g; junior standing and consent of department head.
***sophomore standing
****junior standing

86 COMMUNITY ECONOMIC DEVELOPMENT EMPHASIS

--Drop Emphasis.

86 ECONOMICS MAJOR (restatement of major)

--Revise to read:

Required:

Economics: 920:053; 920:054; 920:103; 920:104;
920:169*; 920:181 18 hours
Emphasis requirements (students choose one area
of emphasis). 18-39 hours
36-57 hours

Emphases:

1. General Economics (18 hours)
Electives: 100-level economics courses . . . 18 hours
2. Quantitative Techniques (36 hours)
Required:
Economics: 920:168 3 hours
Mathematics: 800:060; 800:061; 800:062;
800:076, 800:140 18 hours
Electives: 100-level economics courses
(except 920:177) 15 hours
36 hours
3. Business Analysis (39 hours)
Students who select this emphasis must satisfy the College of Business Administration (CBA) admission requirements before they can officially declare their major. A copy of the Admission, Retention, and Graduation Policy may be obtained from the Advising and Student Services Office in the College of Business Administration. Prior to completion of the admission requirements, students may sign an intent to major in Economics/Business Analysis and be classified as a prospective (pre)major. Pre-Economics/Business Analysis majors may enroll in lower division (below 100) business courses only. Enrollment in upper division (100-level) business courses requires satisfactory completion of the CBA admission requirements and any course prerequisites.

Economics/Business Analysis majors may declare a double

major, and/or major and minor within the College of Business Administration, subject to the regulations of those CBA departments affected. Economics/Business Analysis majors minoring within the CBA must select minors designated for business majors. To graduate with an Economics/Business Analysis major from the College of Business Administration, a student must earn at least 50% of the business credit hours required for the major at UNI. Students must take at least 50% of the course work required for the degree outside the College of Business Administration. Up to nine hours of economics (excluding 920:020), and six hours of statistics may be counted as outside the College of Business Administration. A student must also complete 920:053, 920:054, 920:103, and 920:104 with at least a C- in each course whether taken at UNI or an institution from which transfer credit for these courses is accepted; must earn a 2.20 cumulative grade point average at UNI; must earn an overall 2.20 grade point average in 120:xxx, 130:xxx, 150:xxx, 160:xxx, and 920:xxx courses taken at UNI; and earn a 2.50 or better, in all 920:xxx courses taken at UNI excluding 920:020, 920:024, 920:070, 920:177, and 920:179. Students given permission to graduate out-of-residence must earn a 2.20 or better in all courses approved and accepted for out-of-residence credit.

Required business core:

Accounting: 120:030; 120:031	6 hours
Marketing: 130:101	3 hours
Management: 150:080; 150:100; 150:153; 150:154; 150:175	15 hours
Finance: 160:151	3 hours
Economics: 920:020*, 920:070*	6 hours
Electives: 100-level economics courses	6 hours
	39 hours

*These courses require an additional prerequisite which will be met by taking 800:072, which will also satisfy Category 1C of the Liberal Arts Core.

Total number of hours for Quantitative Techniques emphasis increases from 33 hours to 36 hours.

FINANCE

Online 160:156g Add "g" (Topics in Financial Management).

89,90 FINANCE

--Revise to read:

Finance

(College of Business Administration)

www.cba.uni.edu/finance

R. Followill, Head, A. Cox, X. Jiang, S. Johnson, G. Mills, A. Rappaport, A. Thompson, R. Wyatt, M. Zaman.

Note: Students majoring in Finance and/or Real Estate must satisfy the College of Business Administration (CBA) admission requirements before they can officially declare their major. A copy of the Admission, Retention, and Graduation Policy may be obtained from the Advising and Student Services Office in the College of Business Administration. Prior to completion of the admission requirements, students may sign an intent to major in Finance or Real Estate and be classified as a prospective (pre) major. Pre-Finance and Pre-Real Estate majors may enroll in lower division (below 100) business courses only. Enrollment in upper division (100-level) business courses requires satisfactory completion of the CBA admission requirements and any course prerequisites.

Finance and Real Estate majors may declare a double major, and/or major and minor within the College of Business Administration, subject to the approval of the other CBA departments involved. Finance and Real Estate majors minoring within the CBA must select minors designated for business majors. Finance majors cannot minor in **Finance**, and Real Estate majors cannot minor in Real Estate. However, Finance majors may double major or minor in Real Estate, and Real Estate majors may double major in Finance or minor in **Finance**.

To graduate with a major in Finance or Real Estate from the College of Business Administration, a student must earn at least 50% of the business credit hours required for the major at UNI. Students must take at least 50% of the course work required for the degree outside the College of Business Administration. Up to nine hours of economics (excluding 920:020), and six hours of statistics may be counted as outside the College of Business Administration. A student must also earn a 2.20 cumulative grade point average at UNI; and must earn an overall 2.20 grade point average in 120:xxx, 130:xxx, 150:xxx, 160:xxx, and 920:xxx courses taken at UNI. Students given permission to graduate out-of-residence must earn a 2.20 or better in all courses approved and accepted for out-of-residence credit.

The Finance Department may impose additional admission requirements for students wishing to declare a minor or a second CBA major. Eligibility to declare a minor or a second CBA major is based on competitive GPA and space availability. Students may obtain a copy of these requirements from the Advising and Student Services Office (CBB 321B) in the College of Business Administration.

Bachelor of Arts Degree Programs
 120 semester hours
 Finance Major (restatement of major)

Required Business Core:

Accounting: 120:030; 120:031	6 hours
Marketing: 130:101	3 hours
Management: 150:080; 150:100; 150:153; 150:154; 150:175	15 hours
Finance: 160:151g.	3 hours
Economics: 920:020; 920:053; 920:054; 920:070. . .	12 hours
Required Finance: 160:152; 160:161; 160:171. . . .	9 hours
Emphasis Requirements: (students select one area of emphasis below)	9 hours
	57 hours**

*Students who major in both Finance and Real Estate may not use 160:141 to satisfy the requirements of the Finance major.

**In addition to the required 57 hours, 920:020 and 920:070 have as a prerequisite 800:072 or 800:092, either of which will satisfy Category 5C of the Liberal Arts Core.

1. **Financial Management Electives: (9 hours)**
 160:141; 160:153g; 160:154; 160:156 (sections 1,2,3, and 4); 160:158; 160:163; 920:113
2. **Investments**
Required: (6 hours)
 160:156g (section 2); 160:156g (section 3)
Electives: (3 hours)
 160:141; 160:153g; 160:154; 160:158
3. **Financial Services**
Required: (6 hours)
 160:153g; either 160:141 or 160:154
Electives: (3 hours)
 160:141 or 160:154 (if not selected as a required course); 160:158; 160:162; 160:163, 920:113

Total number of hours remains the same.

Real Estate Major

Required Business Core:

Accounting: 120:030; 120:031	6 hours
Marketing: 130:101	3 hours
Management: 150:080; 150:100; 150:153; 150:154; 150:175	15 hours
Finance: 160:151g	3 hours
Economics: 920:020; 920:053; 920:054; 920:070 . .	12 hours

Required Real Estate and Finance: 160:140; 160:141;
160:142; 160:143; 160:161; 160:171 18 hours
57 hours*

*In addition to the required 57 hours, 920:020 and 920:070 have
as a prerequisite 800:072 or 800:092, either of which will
satisfy Category 5C of the Liberal Arts Core.

Total number of hours remains the same.

Finance Minor (for Business and Non-Business Majors)

Required:

Finance:160:151*; 160:152. 6 hours
Electives: 2 hours
Finance: 160:141; 160:153; 160:154;160:156
(sections 1,2,3, and 4); 160:158; 920:113;
160:161; 160:162; 160:163
15 hours**

*This course requires additional prerequisites (Jr.
standing; 120:031; 920:053; 920:054; 920:070 or equiv).
**NOT available to majors in Finance.

90 FINANCIAL SERVICES MINOR

--Drop Program.

90 FINANCIAL SERVICES MINOR-BUSINESS

--Drop Program.

191 Change number (Commercial Bank Management). New number:
160:153g. (Formerly 160:150g)

191 Change number (Advanced Financial Management). New number:
160:171. (Formerly 160:155)

MANAGEMENT

Online 150:034 Change description (Business Programming). Description: Study of a major business-oriented programming language, including language commands, syntax, and structure. Various applications of the language are introduced as solutions to specific business problems through programming exercises and assignments.

Online 150:120 Change prerequisites (Database Management and Theory). Prerequisites: 150:032; 150:080; 150:034; junior standing. Prerequisite or corequisite: 150:112.

Online 150:125 Change prerequisites (Information Systems Development). Prerequisites: 150:032; 150:034; 150:080; 150:112; 150:120; junior standing.

Online 150:127 Change prerequisites (Decision Support Systems). Prerequisites: 150:032; 150:034; 150:080; 150:112; 150:153; junior standing.

Online 150:140 Change prerequisites (Management Information Systems Policy). Prerequisites: 150:032; 150:034; 150:080; 150:112; junior standing. Prerequisite or corequisite: 150:120.

Online 150:147 Change prerequisites (Information Center Operations). Prerequisites: 150:080; two of the following -- 150:032; 150:034; 810:061; 810:063; junior standing; consent of instructor.

106 BUSINESS TEACHING MAJOR (restatement of major)

--Revise to read:

Business Teaching Major (Extended Program)

The Business Teaching major requires a minimum of 130 total hours to graduate.

Required business core:

- Accounting: 120:030; 120:031 6 hours
- Marketing: 130:101 3 hours
- Management: 150:080; 150:100; 150:153; 150:154;
150:175 15 hours
- Finance: 160:151 3 hours
- Economics: 920:020; 920:053; 920:054; 920:070. . . . 12 hours

Required:

- Marketing: 130:172 3 hours
- Management: 150:075; 150:101; 150:113; 150:117;

150:191 13 hours
35 hours*

*In addition to the required 55 hours, 920:020 and 920:070 have as a prerequisite 800:072 or 800:092, either of which will satisfy Category 1C of the Liberal Arts Core. Business Teaching Majors may substitute both 920:053 and 920:054 for 920:024 to satisfy Category 5B of the Liberal Arts Core.

The Professional Education Requirements for the Business Teaching major include 32 hours in the following courses: 200:017; 200:030; 200:128; 200:148; 220:150; 240:020 or 240:031; 250:150; 260:119; 280:070; and 280:138.

Total number of hours decreases from 58 to 55 hours.

107 BUSINESS TEACHING MINOR (restatement of minor)

--Revise to read:

Business Teaching Minor

Required:

Accounting: 120:030; 120:031 6 hours
Marketing: 130:101; 130:170. 6 hours
Management: 150:075; 150:080; 150:101; 150:102;
150:117; 150:191 15 hours
Economics: 920:024 or both 920:053 and 920:054*. . . 3-6 hours
30-33 hours

*Category 5B of the Liberal Arts Core may be satisfied by taking both 920:053 and 920:054.

Total number of hours changes from 30 to 30-33 hours.

Online MANAGEMENT INFORMATION SYSTEMS MAJOR (EXTENDED PROGRAM)
(restatement of major)

--Revise to read:

The Management Information Systems major requires a minimum of 125 total hours to graduate.

Required business core:

This section remains the same.

Required courses:

Management: 150:032; 150:034; 150:112; 150:120;
150:125; 150:140 18 hours

The remainder of the program remains the same.

Total number of hours remains the same.

Admission and/or exit requirements

--Revise to read:

Students majoring in Management are not permitted to declare a double major within the College of Business Administration (the Economics/General and Economics/Quantitative Techniques majors; and the Economics, Business Communication, and Business Teaching minors excepted). Also, not more than one emphasis area may be declared in Management.

Students majoring in Business Teaching and MIS may declare a double major and/or major and minor within the College of Business Administration, subject to the regulations imposed by those CBA departments affected. Business Teaching majors minoring within the CBA must select minors designated for business majors.

MARKETING

- 100:040 New Course. Business Essentials for Entrepreneurs -- 3 hrs. Essential accounting, finance, and management issues for entrepreneurial endeavors. Prerequisites: sophomore standing, 920:024 or consent of department head. Not for majors in Accounting, Business Teaching, Economics-Emphasis 3, Finance, Management, MIS, Marketing, or Real Estate. Does not substitute for 120:030 or 150:153. Those with credit in 120:030 and 150:153 may have this course waived. (Fall).
- 130:180 New Course. Topics in Marketing -- 3 hrs. Examination of various aspects of Marketing through discussions of specific topics. Prerequisites: 130:101, 920:024 or 920:053. Additional prerequisites may vary by topic.
- 130:197g New Course. Experiential Learning in Entrepreneurship -- 3 hrs. Work experience, directed research, or UNI class substituted to provide focused entrepreneurial emphasis to Certificate program. Prerequisites: 920:024, 100:0XX, 130:101, and 130:170g; junior standing. Requires approval of T. Wayne Davis Chair in Entrepreneurship or Marketing Department head. Not for students with majors in Accounting, Business teaching, Economics - Emphasis 3, Finance, Management, Management Information Systems, Marketing, or Real Estate.
- 130:175g New Course. New Venture Development & Management -- 3 hrs. Procedures for organizing, financing, and implementing a new venture and managing both the start-up and growth phases. Prerequisites: 920:024, 100:0XX, 130:101, and 130:170g; junior standing or written consent of department head. Not for majors in Accounting, Business Teaching, Economics - Emphasis 3, Finance, Management, MIS, Marketing, or Real Estate. (Spring).
- 188 130:170g Add "g". Change number and prerequisites (Entrepreneurship). New number 130:170g. Prerequisites: 920:024; 130:101; junior standing. Not for students with majors in Accounting, Business Teaching, Economics - Emphasis 3, Finance, Management, Management Information Systems, Marketing, or Real Estate. No credit if credit previously earned in 130:172. (Fall). [Formerly 130:170].
- 188 130:187 Drop Course. Direct Marketing -- 3 hrs.

CERTIFICATE IN ENTREPRENEURSHIP FOR NON-BUSINESS MAJORS (new certificate)

This Certificate in Entrepreneurship is open to non-business majors only.

The purpose of the program is to engage students in active participation in the development of entrepreneurial enterprises. They will do this through a combination of traditional course work specifically directed to the entrepreneurial ventures and participation in a significant live

enterprise experience, either through the development of a business plan for a new venture or through an internship in an ongoing entrepreneurial enterprise.

Students must have sophomore standing to begin the program. Students who have taken business classes (120:030, 120:031, 130:101, 150:153, 920:024, 920:053, 920:054) may have those classes substituted with the permission of the Chair in Entrepreneurship for 920:024 Introduction to Economics, 100:040 Business Essentials for Entrepreneurs and/or 130:101 Principles of Marketing -- Entrepreneurship Emphasis.

Prerequisites:

920:024 Introduction to Economics (3 hours)

Prerequisite Hours: 3

Required:

Required:

100:040 Business Essentials for Entrepreneurs	3 hours
130:101 Principles of Marketing	3 hours
130:170g Entrepreneurship	3 hours
130:175g New Venture Development & Management	3 hours
130:197g Experiential Learning in Entrepreneurship. <u>3</u> hours	
	15 hours

107 MARKETING MAJOR (restatement of major)

--Revise to read:

Required business core:

Accounting: 120:030, 120:031	6 hours
Marketing: 130:101	3 hours
Management: 150:080, 150:100, 150:153, 150:154, 150:175	15 hours
Finance: 160:151	3 hours
Economics: 920:020, 920:053, 920:054, 920:070.	12 hours

Required:

Marketing: 130:106, 130:108, 130:191	9 hours
Marketing emphasis area (select one emphasis area below)	<u>9</u> hours
	37 hours*

1. General Marketing
Marketing electives: (9 hours)
130:131, 130:142, 130:150, 130:153, 130:160, 130:161,
130:166, 130:169, 130:172, 130:173, 130:177, 130:178,
130:180.
2. Marketing Management
Required: (6 hours)
130:131, 130:177.
Marketing electives: (3 hours)
130:142, 130:150, 130:153, 130:160, 130:161, 130:166,
130:169, 130:172, 130:173, 130:178, 130:180.
3. Services Marketing
Required: (6 hours)
130:166; 130:178.
Marketing electives: (3 hours)

130:131, 130:142, 130:150, 130:153, 130:160, 130:161,
130:169, 130:172, 130:173, 130:177, 130:180.

4. Sales and Advertising

Required: (6 hours)

130:150, 130:153.

Marketing electives: (3 hours)

130:131, 130:142, 130:160, 130:161, 130:166, 130:169,
130:172, 130:173, 130:177, 130:178, 130:180.

*In addition to the required 57 hours, both 920:020 and 920:070 have a prerequisite of either 800:072 or 800:092, either of which will satisfy Category 5C of the Liberal Arts Core.

Total number of hours remains the same.

108 MARKETING MINOR (restatement of minor)

--Revise to read:

Required:

Marketing: 130:101*	3 hours
Economics: 920:024 or 920:053	3 hours
Marketing electives: three courses from the following:	9 hours
130:106, 130:131, 130:142, 130:150, 130:153, 130:160,	
130:161, 130:166, 130:170, 130:177, 130:178, 130:180.	
Business electives: two courses from the following. .	6 hours
Accounting: 120:030.	
Management: 150:153.	
Finance: 160:055	

21 hours

NOT available to majors in: Accounting, Business Teaching, Economics-Business Analysis Emphasis, Finance, Management, Management Information Systems, Marketing, and Real Estate.

*130:101 has a prerequisite of either 920:024 or 920:053. 920:024 or both 920:053 and 920:054 will satisfy Category 5B or the Liberal Arts Core.

Total number of hours remains the same.

CURRICULUM AND INSTRUCTION

- 210:230 New Course. 210:230 Advanced Techniques in Instructional Management -- 3 hrs.
Data-driven applications of skills, methods and strategies for improved personal and systemic professional practices in elementary and middle level classrooms. Preventive, supportive, corrective, adaptive management techniques for meeting the needs of diverse learners. Prerequisites: 210:201 or consent of the Head of the Department of Curriculum and Instruction.
- 195 210:135g Change title and prerequisites. Title from (Middle Level Socialization and Instruction) to "Middle Level Socialization and Instructional Strategies." Prerequisites: 200:116; 200:148; junior standing. Pre-or corequisite: 210:150 or equivalent.
- Online 230:239 Change prerequisites (230:239 Advanced Literacy Studies). Prerequisites: graduate standing or consent of instructor.
- 212 350:113g Drop Course. Collection Management -- 3 hrs.
- Online 350:114g Change number and prerequisites (Introduction to the School Library Media Program). New number 350:114g. Prerequisites: Junior standing and consent of program coordinator. [Formerly 350:121g].
- Online 350:225 Change prerequisites (Administration of the School Library Media Program). Prerequisites: 350:121; 350:223.
- 196 350:115g Change prerequisites (Organization of Information). Prerequisites: Junior standing. Corequisite or prerequisite 350:114 or consent of program coordinator.
- 212 350:132g Change prerequisites (Library Resources for Children). Prerequisites: Junior standing. Corequisite or Prerequisite: 350:114; Consent of Program coordinator.
- 212 350:134g Change prerequisites (Library Resources for Young Adults). Prerequisites: Junior standing. Corequisite or prerequisite 350:114.
- 212 350:230 Change prerequisites (Library Automation Systems & Networks). Prerequisites: Corequisite or prerequisite 350:115.
- 212 350:295 Change prerequisites (Research in Library & Information Science). Prerequisites: Corequisite or Prerequisite: 350:250.

79 Change in program descriptive information

--Revise to read:

This major leads to licensure for teaching young children from birth through grade 3. The student will complete the Liberal Arts Core

requirements, the Professional Education Requirements, the specified major requirements, plus electives to complete a minimum of 130 hours. The prescribed program is as follows:

I. Professional Education Requirements - Early Childhood Education

Required:

Special Education: 220:150	2 hours
Instructional Technology: 240:031.	3 hours
Human Relations: 280:070	3 hours

(Before enrolling in 280:070, the student must be fully admitted to the Teacher Education Program.)

Level I

Educational Psychology: 200:017; 200:030 . . .	4 hours
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Level II

(Before enrolling in Level II, the student must be fully admitted to the Teacher Education Program.)

Educational Psychology: 200:128; 200:148 . . .	4 hours
Measurement and Research: 250:150	2 hours

Level III

(Before enrolling in Level III, the student must be fully admitted to the Teacher Education Program.)

Social Foundations: 260:119	3 hours
Teaching: 280:132	<u>12</u> hours
	33 hours

II. Early Childhood Education Major Requirements

Required:

Educational Psychology: 200:109	3 hours
Elementary, Early Childhood, and Middle Level Education: 210:121; 210:130; 210:149; 210:151; 210:161; 210:164; 210:192 (2 hrs.)	20 hours
Literacy Education: 230:044; 230:115	6 hours
Design, Family and Consumer Sciences: 310:031.	2 hours
Mathematics: 800:030; 800:134	<u>6</u> hours
	37 hours

Students seeking dual endorsement, Early Childhood Education with Elementary, may do so by completing a program which includes the following additional course work:

Elementary, Early Childhood, and Middle Level

Education: 210:120; 210:152	6 hours
Literacy Education: 230:116	3 hours
Health Promotion and Education: 410:135 or Physical Education: 420:045 or Health, Physical Education and Leisure Services- Interdepartmental: 440:045	2-3 hours
Elementary, Early Childhood, and Middle Level Education: 210:123 or Music: 520:102 or Art: 600:090	<u>2-3</u> hours
	13-15 hours

A 2.50 grade index in all course work at the University of Northern

Iowa, and, also, a 2.50 GPA in all course work at this university and elsewhere, or the approval of the head of the Department of Curriculum and Instruction is required for registration in major courses in the department.

Students should plan their course work so that all Early Childhood courses are taken prior to student teaching. Students must have a cumulative, UNI, and major GPA of 2.50 in order to student teach. In addition, students must achieve a grade of C (2.00) or higher in the following methods classes in order to student teach: 210:121; 210:130; 210:149; 210:151; 210:161; 210:164; 230:115; 800:134. Students should apply for their student teaching one year in advance.

79-80 Change in program descriptive information for Elementary Education Major-Teaching (K-6 General Classroom Teacher)

--Revise to read:

No change until last paragraph of Section II.

To be eligible for the courses in the Professional Semester block, students must have completed Level II of the Professional Education Requirements, a curriculum course (210:150 or 210:152), and have a cumulative 2.50 GPA. Students should plan their course work so that all Elementary Education courses are taken prior to student teaching. Students must have a cumulative, UNI, and major GPA of 2.50 in order to student teach. In addition, students must achieve a grade of C (2.00) or higher in the following methods classes in order to student teach: 210:120; 210:161; 210:164; 230:115; 230:116; 800:134. Students should apply for their student teaching one year in advance.

81 Literacy Education Minor-Teaching (restatement)

--Revise to read:

Literacy Education Minor-Teaching

Required:

Elementary K-6 Literacy Education Minor/Reading
K-6 Endorsement: 230:044; 230:115; 230:116 or
230:117g; 230:119; 230:121; 230:140; 230:147;
230:192; 230:193g (1 hr.)25 hours

Secondary 7-12 Literacy Education Minor/Reading
7-12 Endorsement: 620:040 or 620:053; 230:117g;
230:119 or 630:165; 230:140; 230:147; 230:192;
230:193g (1 hr.); 620:165g; 630:125g or 630:130g
or 620:193g.....25 hours

In order to declare the Literacy Education Minor, a student must have a cumulative and UNI GPA of 3.00 or higher. To continue in the minor, students must earn a grade of B- (2.67) or above in minor courses numbered 230:119 or above and maintain a cumulative and UNI GPA of 3.00 or higher. Persons selecting this program are eligible for the State of

Iowa Reading K-6 or Reading 7-12 endorsement, depending on their choice of courses. Persons selecting this program may be eligible for an English/Language Arts K-6 endorsement, depending on their choice of electives.

Total number of hours increases from 22-23 hours to 25 hours.

- 81 Change in program descriptive information of (Middle Level Education Dual Major-Teaching)

--Revise to read:

Opening paragraph and Required remains the same.

Students should plan their course work so that all Middle Level Education courses are taken prior to student teaching. Students must have a cumulative, UNI, and major GPA of 2.50 in order to student teach. In addition, students must achieve a grade of C (2.00) or higher in the following methods classes in order to student teach: 210:122; 210:135; 230:116 or 230:117, and other methods courses required by your second major. Students should apply for their student teaching one year in advance.

Catalog

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EDUCATIONAL LEADERSHIP, COUNSELING, AND POSTSECONDARY EDUCATION

- 270:291 New Course. Internship -- 1-5 hrs.
Advanced supervised experience to further develop skills. May be repeated. Offered on credit/no credit basis only.
Prerequisite: Consent of advisor.
- 270:292 New Course. Internship - Capstone -- 4 hrs.
This is a final project with a work product relevant to the needs of the school district. Prerequisites: 270:291; consent of advisor.
- Online 270:206 Change hours (Orientation to Educational Leadership). Hours from 1 to 2.
- Online 270:249 Change hours (Curriculum and Instruction). Hours from 3 to 2.
- Online 270:282 Change hours (Change and Transformation). Hours from 3 to 2.
- Online 270:284 Change title. Title from (Facilitating Professional Growth) to "Evaluator Approval for Improved Student Learning."
- Online 290:205 Change prerequisites (Counseling Processes with Individuals and Systems). Prerequisites: 290:103; 290:105; 290:227 (highly recommended); 290:105 [B or higher]; consent of department head.
- Online 290:220 Change title, description, and prerequisites. Title from (Group Process) to "Group Counseling Skills and Processes."
Description: Emphasis on theoretical and experiential understandings of group dynamics, development, theories, and methods. Focus on group leadership and group membership. Experiential laboratory participation incorporated.
Prerequisite: 290:103; 290:105; consent of department head.
- 203 290:224 Drop Course. Applied Group Dynamics -- 3 hrs.
- Online 290:226 Change prerequisites (Consultation Skills). Prerequisites: 290:103; 290:105; 290:205 or 290:254 (highly recommended); consent of department head.
- Online 290:227 Change description and prerequisites (Counseling Theory).
Description: Overview of predominant counseling and human development theories, including emphasis on learning and personality development and normal and abnormal human behavior. Stresses practical applications in school and mental health settings. Prerequisites: 290:103 and/or 290:105 (as pre or co-requisites); consent of department head.
- Online 290:254 Change prerequisites (Counseling Children and Adolescents). Prerequisites: 290:105 ("B" or higher); 290:227 (highly recommended); consent of department head.

Online 290:256 Change prerequisites (Multicultural Counseling). Prerequisites: 290:103; 290:105; 290:227; consent of department head.

Online 290:290 Change prerequisites (Practicum in Counseling). Prerequisites for School Counseling: 290:103; 290:105; 290:220; 290:227; 290:250 (recommended); 290:254 (B or higher); 290:262 (highly recommended); consent of department head. Prerequisites for Mental Health Counseling: 290:103; 290:105; 290:205 (B or higher); 290:220; 290:227; 290:241 (recommended/can take as co-requisite); 290:250 (recommended); 400:142; consent of department head.

135 ADVANCED STUDIES CERTIFICATE IN EDUCATIONAL LEADERSHIP
(restatement of certificate)

--Revise to read:

Emphasis: Principalship

This is a post-master's program consisting of a minimum of 36 semester hours leading to the issuance of an Advanced Studies Certificate in Educational Leadership. The purpose of this program is to allow the student to broaden and sharpen her/his skills in competency areas. This is solely for the purpose of gaining endorsement in the Principalship.

The program will consist of a minimum of 36 semester hours in graduate studies in the area of educational leadership and/or related studies.

Required:

Educational Psychology: 200:116; or 200:232;	
or 250:205; or 200:214	6 hours
Special Education: 220:260	3 hours
Educational Leadership: 270:206; 270:232;	
270:245; 270:247; 270:249; 270:282; 270:284 .	18 hours
Educational Leadership Internship:	9 hours
270:291 -	5 hours
270:292 -	4 hours
	<hr/>
	36 hours

Total number of hours increases from 33-34 to 36 hours.

154 MAJOR IN MENTAL HEALTH COUNSELING (restatement of MA degree)

--Revise to read:

This program is designed for those who intend to work in non-school settings such as community and mental health centers, counseling centers, and employee assistance programs. Specific areas of interest and the setting in which the person plans to work will determine the appropriate electives in a specialty (emphasis) area.

Students completing this program must pass a written comprehensive examination, successfully complete a research paper, and fulfill program-specific exit requirements. Those students electing a thesis

option must, in addition, successfully complete a final oral comprehensive examination.

This major is available on the thesis and non-thesis options. A minimum of 66 semester hours is required for the thesis option which includes 6 hours of 290:299, and a minimum of 60 semester hours for the non-thesis option. A minimum of 20 hours of 200-level course work is required.

The Graduate Record Examination (General Test) is not required for admission to the program.

Program requirements and detailed information on the major, including admission policies and procedures, should be obtained from the Department of Educational Leadership, Counseling, and Postsecondary Education.

Required:

Measurement and Research: 250:205; 200:235	6 hours
Counseling: 290:103; 290:105; 290:205; 290:220; 290:225; 290:226; 290:227; 290:228; 290:241; 290:250; 290:256	33 hours
Psychology: 400:142	3 hours
Required Practicum and Internship Counseling: 290:290 (3 hrs.); 290:291 (6 hrs.)	9 hours
Electives: a minimum of 9 hours, in a specialty (emphasis) area, selected in consultation with advisor	<u>9</u> hours 60 hours

Thesis Option:

Research: 290:299	<u>6</u> hours
	66 hours

Total number of hours remains the same.

166

MAJOR IN PRINCIPALSHIP (restatement of MA degree)

--Revise to read:

This major is available on the thesis and non-thesis options. A minimum of 42 semester hours is required on the thesis option; a minimum of 36 hours is required on the non-thesis option. A minimum of 32 hours of 200-level course work, including 6 hours of 270:299, is required for the thesis option. A minimum of 32 hours of 200-level course work is required for the non-thesis option. Successful completion of a final oral comprehensive examination is required for the thesis option. The student must complete the usual degree and licensure/endorsement requirements and must complete a minimum of one year of successful teaching appropriate to the major prior to graduation. For endorsement the student must have three years of teaching experience at either the elementary or secondary level. This program is offered to cohort groups of 20-25 students on and off campus over the ICN, through WebCT, and in face-to-face instructional sessions. This program will require the student to participate within the cohort group for a period of two (UEN) or three years. New cohort groups are starting each year at the beginning of the fall semester.

The Graduate Record Examination (General Test) is not required for admission to the program.

Required Program Courses:

Educational Psychology: 200:214; or
Social Foundations: 260:234; or 200:116; or 200:232 . 3 hours
Measurement and Research: 250:205 3 hours
Special Education: 220:260 3 hours

Additional educational leadership courses:

270:206; 270:232; 270:245; 270:247; 270:249;
270:282; 270:284 18 hours
Internship - 270:291 5 hours
270:292 4 hours
36 hours

Thesis Option

Research: 270:299 6 hours
42 hours

Total number of hours decreases from 45-46 to 42 hours.

166

MAJOR IN SCHOOL COUNSELING (restatement of MA degree)

--Revise to read:

This program is designed for those who intend to work as counselors in school settings. A teaching certificate and teaching experience are desirable but not required in order to become licensed. Students completing this program must pass a written comprehensive examination, successfully complete a research paper, and fulfill program-specific exit requirements. The thesis option requires successful completion of a final oral comprehensive examination, and the non-thesis option requires successful completion of a written comprehensive examination. This major is available on the thesis and non-thesis options. For students who have a teaching degree, a minimum of 60 semester hours is required for the thesis option which includes 6 hours of 290:299, and a minimum of 54 semester hours for the non-thesis option. For students without a teaching degree, a minimum of 66 semester hours is required for the thesis option which includes 6 hours of 290:299, and a minimum of 60 semester hours for the non-thesis option. A minimum of 18 hours of 200-level course work is required.

The Graduate Record Examination (General Test) is not required for admission to the program.

Program requirements and detailed information on the major, including admission policies and procedures, should be obtained from the Department of Educational Leadership, Counseling, and Postsecondary Education.

For students with a teaching degree:

Required:

Educational Psychology: 200:214; 200:235 6 hours
Measurement and Research: 250:205 3 hours
Counseling: 290:103; 290:105; 290:210; 290:220;
290:225; 290:226; 290:227; 290:228; 290:250;

290:254; 290:256; 290:262 36 hours
 Required practicum and internship:
 Counseling: 290:290 (3 hrs.); 290:291 (6 hrs.) . . . 9 hours
 54 hours

Thesis Option
 Research: 290:299 6 hours
 60 hours

For students without a teaching degree:

Required:
 Educational Psychology: 200:128; 200:148;
 200:214 7 hours
 Measurement and Research: 250:205; 200:235 6 hours
 Counseling: 290:103; 290:105; 290:210; 290:220;
 290:225; 290:226; 290:227; 290:228; 290:250;
 290:254; 290:256; 290:262 36 hours
 Special Education: 220:150 2 hours
 Required practicum and internship:
 Counseling: 290:290 (3 hrs.); 290:291 (6 hrs.) . . . 9 hours
 60 hours

Thesis Option
 Research: 290:299 6 hours
 66 hours

Total number of hours remains the same.

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EDUCATIONAL PSYCHOLOGY AND FOUNDATIONS

- Online 200:109g Change prerequisites (Development and Assessment of Young Children). Prerequisites: 200:030 or equivalent, or junior standing and consent of instructor.
- Online 250:282 Change description (Individual Intellectual Assessment). Description: Administration, scoring, and interpretation of widely used scales of intelligence. Consideration of cognitive assessment issues, including conceptualizations of intelligence, racial and ethnic bias, and applications in school settings. (Fall).
- Online 250:283 Change title and description. Title from (Psychodiagnostics) to "Psychodiagnostics to Academic Assessment and Intervention." Description: Ecological approach to academic assessment and intervention; discussion of curriculum based and standardized measures, ethical considerations and measurement principles; and introduction to academic interventions. (Variable).

176 SPECIALIST IN EDUCATION DEGREE (restatement of Specialist in Education Degree)

--Revise to read:

Specialist in Education Degree

The major in School Psychology at the University of Northern Iowa leading to the Specialist in Education Degree involves breadth of preparation as well as depth in a particular field of specialization.

Course work requirements for the Specialist in Education Degree are defined in terms of a three-year graduate program, including internship and work taken on the master's degree. A minimum of 69 semester hours beyond the bachelor's degree is required for completing the program.

The School Psychology major is open to students who hold a master's degree from an accredited graduate school, and who meet the requirements set forth below.

Detailed information on the School Psychology major may be obtained from the Department of Educational Psychology and Foundations.

Department of Educational Psychology and Foundations

Major in School Psychology

Admission to the Ed.S. program in School Psychology requires an earned, accredited master's degree and a prior graduate preparation equivalent to UNI's MAE: General Educational Psychology degree program with an emphasis in Context and Techniques of Assessment.

The Graduate Record Examination (General Test) is required for admission to the program.

Students with deficiencies will be notified prior to admission. Any deficiencies in the student's background will be added to the student's Ed.S. program requirements.

This major is available on the thesis option. A student who did not complete a thesis at the Master's degree level must select the thesis option to complete the EdS degree.

This major is also available on the non-thesis option. Students who completed a thesis as part of a Master's degree program may request to have the EdS thesis requirement waived. At the the time of admission, the student requesting a waiver will submit a copy of the Master's thesis to the School Psychology Committee. The thesis will be reviewed by the School Psychology Committee to determine if the work meets EdS program thesis standards. This determination will be based on 1) the relevance of the topic to the practice of school psychology, 2) whether the thesis is empirically based, 3) whether the thesis is of such quality that it would be accepted as an EdS thesis in the program. Notice of approval or nonapproval of the waiver of the EdS thesis will be sent by the program coordinator to the student, the graduate college, and the office of the registrar.

A student who qualifies for the non-thesis option will complete a research paper on a topic related to school psychology. Depending on the extent of the research paper, the student may earn 1-3 semester hours of research credit.

For the thesis and non-thesis options, a minimum of 36 semester hours is required. A minimum of fifteen (15) hours of 200-level course work is required. Successful completion of a final oral examination is required.

Required:

Educational Psychology: Completion of at least 9

**hours selected from the following: 200:232,
200:240, 200:286, 200:289, 250:281, 250:282,
250:283, 250:284, 250:286..... 9 hours**

Professional Studies:

200:291..... 6 hours
200:299..... 1-6 hours
Thesis option (6 hrs)
Non-thesis option (1-3)
200:290..... 3-5 hours
Literacy Education: 230:238..... 3 hours
Counseling and Behavior Modification 290:254 or
400:272..... 3 hours
Special Education Law & Policy 220:260..... 3 hours
Elective as approved by committee..... 1-5 hours
Thesis option (1 hr)
Non-thesis option (1-5 hours)

36 hours

Total number of hours increases from 30 to 36 hours.

--Revise to read:

Exit requirement: Before graduating with the EdS degree the student must take the Praxis II test in School Psychology (number 0400) and submit a copy of the complete Examinee Score Report to the program coordinator.

HEALTH, PHYSICAL EDUCATION AND LEISURE SERVICES, SCHOOL OF

- 410:180g New Course. Environmental Health, Field Methods, Technology, and Laboratory Applications -- 3 hrs.
This course strives to develop understanding and working knowledge of the basic tools of environmental health research and field methods. Students will develop skills and competencies related to basic laboratory methods and safety protocols, sampling, types of environmental epidemiology/health research study designs, and the types of mathematical tools employed by researchers practicing and working in this area.
Prerequisite: 800:072 or 250:180.
- 410:389 New Course. Health Promotion and Education Seminar -- 1 hr.
Seminar explores various aspects of the Health Promotion and Education graduate program, career possibilities, and the completion of the dissertation. The intent is to increase understanding of the graduate education process and provide a forum for discussing research topics. Prerequisite: Doctoral students.
- 410:319 New Course. Health Disparities -- 3 hrs.
Course provides an overview of the description, occurrence, and determinants of health disparities in the U.S., and discusses strategies to promote health equity for all.
- 410:320 New Course. Theoretical Foundations of Community and Public Health Education -- 3 hrs.
Theoretical approaches to behavior change in community and public health research and practice; including factors influencing health behaviors, ethical issues, behavioral interventions, and consideration for special populations.
- 42T:289 New Course. Seminar in Athletic Training -- 1-8 hrs.
Special topics in athletic training and/or other allied health professions as indicated in the schedule of classes. May be repeated for credit. Prerequisite: Admitted into the Doctor of Education: Rehabilitation Studies intensive study area and/or the Master of Science Athletic Training degree program.
- 42T:297 New Course. Practicum -- 1-4 hrs.
Practical experience in athletic training which includes, but is not limited to: teaching, research, and clinical practice. Prerequisite: Admitted into the Doctor of Education: Rehabilitation Studies intensive study area and/or the Master of Science Athletic Training degree program.
- 42T:301 New Course. Critical Theories and Practices in Rehabilitation -- 3 hrs.
An in depth examination of current theories and practices relevant to the field of athletic training. Building on foundational theory students will analyze and critique the clinical practices and philosophies of certified athletic trainers and/or other allied health professionals.
Prerequisite: Admitted into the Doctor of Education:

Rehabilitation Studies intensive study area.

- 42T:310 New Course. Clinical Teaching Skills in Allied Health Professions -- 3 hrs.
Examination of issues and problems in teaching clinical proficiencies including the roles of clinical instructors, factors affecting teaching and the learning environment, learning over time, course planning and teaching strategies.
Prerequisite: Admission into the Doctor of Education: Rehabilitation Studies intensive study area.
- 430:138g New Course. Community Planning Workshop -- 3 hrs.
This is an applied research, project-based course for advanced undergraduate and graduate students. This class is designed to give you the applied research and communication skills to function creatively and competently in professional settings. The class centers on the design and execution of a cooperative planning project that addresses specific tourism or resource planning issues. Prerequisite: Junior standing.
- Online 410:005 Change title and description. Title from (Orientation to Health Promotion) to "Introduction to Public Health." Description: Introduction to the public health activities concerned with the protection and care of the community; survey of the major specialties and populations of interest in the public health field.
- Online 410:110 Change title, and description. Title from (Introductory Epidemiology) to "Introduction to Epidemiology." Description: This course will provide an introduction to the basic principles and methods of epidemiology as a science of public health and medicine. The application of statistical methods in public health research will also be covered.
- Online 410:145g Change title and description. Title from (Health Promotion Evaluation) to "Public Health/Health Promotion Evaluation." Description: Principles, methods, and procedures to evaluate public health and health promotion programs.
- Online 410:147g Change description (Minority Health). Description: Exploration of public health issues and problems faced by members of minority populations. Includes public health field trips and cultural competency development experiences.
- Online 410:153g Change title, description, and prerequisites. Title from (Theoretical Foundations of Health Promotion and Education) to "Public Health Theory and Application." Description: Selected learning and behavior change theories and ethical principles that serve as the foundation for effective public health, health promotion, and health education practice; emphasis on the practical application of these theories and principles in public health program delivery. Prerequisite: junior standing.
- Online 410:156g Change title and description. Title from (Implementing Health Promotion Programs) to "Implementing Public Health and Health Promotion Programs." Description: Methods, techniques, and

resources used in implementing public health and health promotion programs. Requires field-based work.

- 217 410:160g Drop Course. Community and Public Health -- 3 hrs.
- Online 410:167g Change title, hours, and description. Title from (Cultural Competency for Health Providers) to "Cultural Competency for the Helping Professions." Hours from 1 to 3. Description: This course provides an overview to the changing demographics in the United States, and discusses how culturally competent health care can improve the wellbeing of underserved populations. It also provides in-depth training in working in a culturally appropriate manner with multiple diverse populations in Iowa and the U.S.
- Online 410:176g Change title and description. Title from (Planning Health Promotion Programs) to "Planning Public Health/Health Promotion Programs." Description: Social, epidemiological, behavioral, educational, and administrative factors in public health and health promotion.
- Online 410:178g Change description (Health Advocacy, Social Action and Policy Development). Description: Knowledge and skills related to community organizing, coalition building, conflict resolution, political action, and policy development as these processes relate to public health and health promotion.
- Online 410:197g Change hours (Global Health Corps Domestic Practicum). Hours from 1-3 to 3.
- Online 410:290 Change title and description. Title from (Philosophy and Ethics of Health Promotion/Education) to "Philosophy and Ethics of Public Health and Health Promotion." Description: Analysis of philosophical foundations and ethical principles related to public health, health promotion, and health education practice.
- Online 420:273 Change title. Title from (Contemporary Issues in Physical Education) to "Contemporary Issues in Physical Education and Athletics."
- 220 420:274 Drop Course. Measurement and Evaluation in Physical Education -- 3 hrs.
- Online 430:060 Change number, title, and description. New number 430:060. Title from (Principles of Nonprofit Youth Serving Agencies) to "Principles of Nonprofit and Youth Agencies." Description: Principles of the youth and human services profession, including history, philosophy, missions, scope of services, activities, and trends. Special emphases on the affiliate agencies within American Humanics, Inc. umbrella. [Formerly 43Y:060].
- Online 430:070 Change number (Principles of Tourism). New number 430:070. [Formerly 43T:070].

- Online 430:075 Change number (Tourism and Leisure Services Promotion). New number 430:075. [Formerly 43T:075].
- 222 430:110 Change prerequisites (Programming for Leisure, Youth and Human Services). Prerequisites: 430:010; 430:020; or written consent of instructor.
- Online 430:143g Add "g". Trends and Issues in Outdoor Recreation).
- Online 430:150 Change number and title. New number 430:150. Title from (Management of Nonprofit Youth Serving Agencies) to "Management for Nonprofit and Youth Agencies." [Formerly 43Y:150].
- Online 430:151 Change number, title, and description. New number 430:151. Title from (Financial Administration for Nonprofit Youth Serving Agencies) to "Fundraising and Budgeting for Nonprofit and Youth Agencies." Description: Theory and practice of budget development, fundraising and control in nonprofit youth-serving agencies. [Formerly 43Y:151].
- Online 430:154 Change number, title, and description. New number 430:154. Title from (Human Resource Development in Nonprofit Youth Serving Agencies) to "Human Resource Development for Nonprofit and Youth Agencies." Description: Management and supervision of volunteers, staff, and board members in nonprofit and youth service agencies. Emphasis on nonprofit personnel practices and procedures. [Formerly 43Y:154].
- Online 430:155 Change number, title, and description. New number 430:155. Title from (Planning Strategies in Nonprofit Youth Serving Agencies) to "Planning Strategies in Nonprofit and Youth Agencies." Description: Examination and evaluation of various planning models used in nonprofit and youth agencies to meet the needs of youth. Emphasis on matching developmental needs to planning strategies and models. [Formerly 43Y:155].
- Online 430:157 Change number (Introduction to Youth Development in LYHS). New number 430:157. [Formerly 43Y:157].
- Online 430:163g Add "g". (Administrative Practices in Therapeutic Recreation). New number 430:163g.
- Online 430:167g Add "g". Intervention Techniques in Therapeutic Recreation). New number 430:167g.
- Online 430:169g Add "g". Change prerequisites (Research and Evaluation in Leisure, Youth and Human Services). Prerequisite: 430:110; junior standing or consent of instructor.
- Online 430:170g Change number and prerequisites (Eco, Adventure and Sport Tourism). New number 430:170g. Prerequisite: 430:070 or consent of instructor. [Formerly 43T:170g].
- Online 430:171 Add "g". Change number and prerequisites (Rural Tourism Development). New number 430:171g. Prerequisite: 430:070 or consent of instructor. [Formerly 43T:171].

- Online 430:173 Change number and prerequisites (Conferences, Expositions and Conventions in Tourism). New number 430:173. Prerequisite: 430:070 or consent of instructor. [Formerly 43T:173].
- Online 430:188g Change title. Title from (Professional Development Seminar) to "Nonprofit Leadership Practicum."
- Online 430:202 Change title. Title from (Social Psychology of Leisure, Youth and Human Services) to "Social Psychology of Leisure."
- Online 430:240 Change number (Models for Intervention With Youth). New number 430:241. [Formerly 43Y:240].
- Online 430:244 Change number (Youth Development in Nonprofit Organizations). New number 430:244. [Formerly 43Y:244].
- Online 430:251 Change number (Financial Decision Making for Youth/Human Service Agencies). New number 430:251. [Formerly 43Y:251].
- Online 430:253 Change number (Fundraising and Grant Writing for Nonprofit Agencies). New number 430:253. [Formerly 43Y:253].
- Online 430:254 Change number (Marketing the Youth/Human Service Agency). New number 430:254. [Formerly 43Y:254].
- Online 430:256 Change number (Personnel Management and Supervision in Youth/Human Services). New number 430:256. [Formerly 43Y:256].
- Online 430:310 Change description and prerequisites (Critical Theories and Practices in Leisure, Youth and Human Services I). Description: In-depth examination of current theories, philosophical foundations, history and current practices relevant to the leisure, youth and human services fields. Building on foundational theory courses, students analyze and critique the organization and design of leisure, youth and human service programs, based on setting and ideological model, in the U.S. and around the world. Students develop praxis design principles consistent with the developmental, normative focus of informal and formal education. Recommended for 2nd year students. Prerequisites: 430:202; 430:240; consent of instructor.
- Online 430:312 Change description (Critical Theories and Practices in Leisure, Youth and Human Services II). Description: Second course in a two-course sequence that surveys leisure, youth and human service practices and theories in a wide variety of out-of-school and co-curricular settings. The course covers theories, models, and best practices in the delivery of services. Students analyze and critique the organization and design of leisure, youth and human service programs, based on setting and ideological model, in the U.S. and around the world. Students develop praxis design principles consistent with the developmental normative focus of informal and formal education. This course is recommended for third year students.

AQUATICS SPECIALIZATION CERTIFICATE (new certificate)

The purpose of this certificate is to develop and produce quality graduates who have the appropriate skills and certifications to obtain employment in the aquatic profession. Upon completion of the certificate, students will be able to teach Lifeguarding, Water Safety, and certified as a pool operator through national certifications.

Required:

420:011 Fundamental Physical Activities-Aquatics....	1 hour
420:060 Lifeguarding	2 hours
420:061 Water Safety Instruction	2 hours
420:120 Certified Pool Operator	2 hours
430:010 Introduction to Leisure, Youth & Human Svcs.	3 hours
430:110 Programming for Leisure, Youth and Human Services	3 hours
Electives: 5 hours of electives as approved by advisor, chosen from the following.....	5 hours
420:A39 (Canoeing, 1 hr.), 420:A66 (Skin and Scuba Diving (2 hrs.), 420:109 (2 hrs.), 420:186 (Studies in Small Craft Safety/Water Rescue, 1 hr.), 420:186 (Studies in Physical Education: Lifeguard Instructor Training, 1 hr.), 430:168 (3 hrs.), 440:186 (Studies in Legal Issues in Health, Physical Education, Leisure, Youth and Human Services, 3 hrs.)	18 hours

**DOCTOR OF EDUCATION DEGREE, INTENSIVE STUDY AREA IN COMMUNITY
HEALTH EDUCATION (new EdD program)**

Community Health Education. This intensive study area is designed to equip community health promotion and public health education professionals for positions of leadership in applied community and public health education settings. Graduates of the program are prepared for careers in applied academic settings including (but not limited to) allied health and nursing colleges, universities with a focus on teaching, and liberal arts colleges, as well as leadership positions in major community and public health organizations such as county, state and national departments of public health, and government and non-government health organizations.

Program of Study:

I. Professional Common Core: 15 credit hours including the following (or other sequence as determined by an individual student's program of study committee):	
Education Foundations: 190:301	3 hours
Research:	
190:303 Inquiry	3 hours
190:305 Qualitative Methods:	3 hours
190:307 Education Data Analysis (Quantitative):. . .	3 hours
One of the following:	3 hours
250:270 Educational Program Evaluation	
250:300 Descriptive Educational Research	
250:301 Advanced Experimental Research in Education	
250:310 Advanced Qualitative Methods in Educational Research	

- II. Advanced Professional Studies: 38 credit hours including:
- Community Health Education Core: 21 hours
 - 410:220 Health Determinants: 3 hours
 - 410:290 Philosophy and Ethics of Health Education: 3 hours
 - 410:293 Epidemiology: 3 hours
 - 410:389 Seminar: Research/Eval (1 cr x 6 sem): . 6 hours
 - 410:319 Health Disparities: 3 hours
 - 410:320 Community/Public Health Theory:. 3 hours

Track: 17 credit hours

A. Post-secondary Health Education

- 170:260 History and Philosophy of Higher Ed: . . 3 hours
- 170:230 Post-secondary curriculum & assessment . 3 hours
- 410:395 Internship (teaching): 2 hours
- 410:397 Practicum (teaching): 3 hours

Electives: 6 hours

B. Community and Public Health Education

- 942:173g Public Policy Process
- OR
- 942:153g Public Organizations 3 hours
- 43Y:253 Fundraising/Grantwriting: 3 hours
- 410:395 Internship (public health): 2 hours
- 410:397 Practicum (public health): 3 hours

Electives: 6 hours

III. Dissertation: 7 credit hours, including:

- 190:389 Interdisciplinary Doctoral Seminar: . . 1 hour
- 190:399 Interdisciplinary Dissertation Research. 6 hours

Total Hours required for degree: 60 hours

DOCTOR OF EDUCATION, INTENSIVE STUDY AREA IN REHABILITATION STUDIES (new EdD program)

Rehabilitation Studies. This area of intensive study is designed to prepare Certified Athletic Trainers and/or other Allied Health professionals to plan, implement, evaluate, and supervise educational programs as well as develop a scholarly agenda. Graduates will be prepared for careers as athletic training program directors, clinical coordinators, applied scholars, and practicing clinicians. This program focuses on a holistic approach of preparing students by including administration, education, and rehabilitation studies within the curriculum. (For more information, contact the Chair of the Division of Athletic Training within the School of Health, Physical Education, and Leisure Services)

PROGRAM OF STUDY

- I. Professional Common Core 15 hours
- Education Foundations. 3 hours
- 190:301 Context of Contemporary Education Research 12 hours
- 190:303 Inquiry (3)
- 190:305 Qualitative Methods (3)

190:307 Education Data Analysis (3)
 One of the Following: 3 hours
 250:270 Educational Program Evaluation
 250:300 Descriptive Educational Research
 250:301 Advanced Experimental Research in Education
 250:310 Advanced Qualitative Methods in Education Research

II. Advanced Professional Studies 38 hours
 Athletic Training Core 20 hours
 42T:270 Administration and Leadership in
 Athletic Training (2)
 42T:289 New: Athletic Training Seminar (8)
 Seminar: Outcomes (2)
 Seminar: Epidemiology (2)
 Seminar: Kinesmetrics in Athletic Training
 Research (2)
 Seminar: Community Building & Leadership (2)
 42T:297 New: Practicum (4)
 42T:301 New: Critical Theories and Practices
 in Rehabilitation (3)
 42T:310 New: Clinical Teaching Skills in
 Allied Health Professions (3)

Track (Select two) 12-15 hours

A. Evidence Based Practice
 42T:230 Evidence Based Rehabilitation Practice I (2)
 42T:240 Evidence Based Rehabilitation Practice II (2)
 42T:260 Current topics in Allied Health (2)

B. Orthopedic Assessment
 42T:210 Pathoetiology and Orthopedic Assessment I (2)
 42T:220 Pathoetiology and Orthopedic Assessment II (2)
 42T:250 Orthopedic Surgical Interventions (2)

C. Exercise Science
 420:253 Advanced Exercise Physiology (3)
 420:271 Cardiovascular Physiology (3)
 420:260 Laboratory Instrumetnation and Test
 Interpretation (3)

Electives 3-6 hours

III. Dissertation 7 hours
 190:389 Interdisciplinary Doctoral Seminar (1)
 190:399 Interdisciplinary Dissertation Research (6)

60 hours

online DOCTOR OF EDUCATION DEGREE (ED.D.) (restatement of EdD program)

--Revise to read:

Doctor of Education Degree

Leisure, Youth and Human Services

This area of intensive study is designed to interpret and apply youth development models and concepts as well as nonprofit administrative practices to the planning, management, supervision and evaluation of informal education programs in the community. Graduates are prepared for careers as applied scholars, administrators of community nonprofit organizations, youth serving agencies, public parks and recreation, foundations, and government agencies. **Program of study will be based upon students needs, interests, and upon approval by academic advisor and program of study committee.** (For more information, contact the Coordinator, Leisure, Youth and Human Services Division, School of Health, Physical Education, and Leisure Services.)

93 HEALTH PROMOTION MAJOR (restatement of major)

--Revise to read:

Required Common Core:

410:110; 410:112; 410:145*; 410:156;
 410:163; 410:165; 410:176.....21 hours

Choose one of the following 5 options:

Options 1 (36 hours)

Options 2 (34 hours)

Option 3 (33 hours)

Option 4 (34 hours)

Options 5 (51-52 hours)

Total hours for option 1..... 57 hours

Total hours for options 2.....55 hours

Total hours for option 3.....54 hours

Total hours for options 4.....55 hours

Total hours for option 5.....72-73 hours

*410:145 has a prerequisite of 250:180 or 800:072. 800:072 may be used to satisfy Category 1C of the Liberal Arts Core.

Option 1 - Health Promotions (36 hours)

Required:

410:005, 410:118; 410:131; 410:151; 410:153;
 410:155; 410:164; 410:168 (12 hours);
 420:050; 420:153; 420:156.....36 hours

Option 2 - Health Disparities (34 hours)

Required:

410:005, 410:151, 410:153, 410:168 (12
 hours), 410:178.....22 hours

Electives(select 12 hours from the following).....12 hours

410:020; 410:120; 410:128; 410:125; 410:138;
 410:147; 410:152; 410:161; 410:162; 410:167;
 410:197; 31F:057; 31F:155; 31F:157; 31F:178;
 400:060; 48C:142; 48C:153; 900:020; 900:050;
 960:146; 990:167; 840:052; 840:140; 840:157

Option 3 - Women's Health (33 hours)

Required: 410:005; 410:020, 410:128, 410:151,
 410:153, 410:162, 410:168 (12 hours),

410:178.....30 hours
Elective (select 3 hours from the following).....3 hours
31F:057; 31F:155; 31F:157; 31F:178; 400:060;
48C:142; 48C:153; 900:020; 960:146; 990:167

Option 4 - Global Health (34 hours)

Required:

410:005; 410:151; 410:153; 410:168 (12 hours);
410:178.....22 hours
Electives (select 12 hours from the following)....12 hours
410:138; 410:147; 410:152; 410:161; 410:167;
410:197; 990:167

Option 5 - Science Intensive: Environmental Health (51-52 hours)

This interdisciplinary emphasis is recommended for students who wish to prepare for careers as environmental health professionals as it provides experiences in the sciences and health areas. It also provides preparation for post-graduate study in the field of environmental health or public health. This emphasis will require 126 hours to graduate.

Required:

410:160; 410:166; 410:168 (6 hours); 410:180....15 hours
840:051; 840:052; 840:140; 840:151.....16 hours*
860:044 and 860:048, or 860:070 and 860:063....8-9 hours*
Electives (select 12 hours from the following)....12 hours
410:020, 410:138, 410:147, 410:152, 410:153,
410:164; 410:178, 840:147, 840:150, 840:155,
840:168, 840:170, 840:180, 860:132, 870:031,
870:171

*These required courses can be satisfied with appropriate selection of courses for completing the Biology Minor.

Total hours increases from 54-56 hour range to a 54-57 hour range for 4 options and a 72-73 hour range for the new option.

online LEISURE, YOUTH AND HUMAN SERVICES MAJOR (restatement of major)

--Revise to read:

Division of Leisure, Youth and Human Services
Academic Policies
Major Requirements

Students should indicate their interest in majoring in Leisure, Youth and Human Services by completing an application to the division. Leisure, Youth and Human Services application materials may be obtained in the division office (WRC 203). The following criteria shall be used to determine acceptance as a fully declared major in the program:

1. 2.00 or above cumulative UNI GPA.
2. 2.50 or above cumulative GPA in a minimum of 9 hours of

- coursework in the division (must include 430:010, 430:020, and any other 430:xxx course for which the student is eligible).
3. A grade of C (2.00) or higher in all courses applied to the major. If the student earns less than a C in a major course, s(he) must retake the course within two semesters in order to apply it to the major.
 4. Upon satisfaction of the acceptance requirements (a-c above), the student shall be converted to major status by the division.
 5. Within one semester after full admission to the major, students must demonstrate computer competency through passing the HPELS computer competency exam or successfully completing 440:120.

Within one semester after full admission to the major, students must file an approved undergraduate Program of Study, including all electives to be taken for the major.

In order to remain in good academic standing, students must maintain a cumulative major GPA of 2.50 or above. Students whose GPAs fall below 2.50 will have one semester in which to raise grades to the required level. If they are unable to do so, they must retake the course or courses that caused the GPA to fall below 2.50, and they will be administratively dropped from any other major courses for which they have registered.

In order to be eligible for internship and graduation, students must:

1. Meet the academic criteria above.
2. Complete a minimum of 500 Professional Experience hours in Leisure, Youth and Human Service settings.
3. Hold or obtain current certification.

Minor Requirements

Admission to the Leisure, Youth and Human Services and Youth Services Administration minors requires students to have a cumulative UNI GPA of 2.00. To graduate with a minor in Leisure, Youth and Human Services or Youth Services Administration, students must have a minor GPA of 2.50, with a grade of C (2.00) or higher in all courses applied to the minor. Students must officially declare the minor and file an undergraduate minor Program of Study within one semester of declaration to be eligible to register for classes.

Leisure, Youth and Human Services Major

The Leisure, Youth and Human Services major prepares students for work and on-going study in the leisure, youth and human services field. Graduates may find employment in working with people of all ages with diverse backgrounds in areas such as municipal parks and recreation, commercial recreation, tourism, outdoor recreation, therapeutic recreation (clinical and community-based settings), the nonprofit sector, youth serving agencies, military recreation, and other opportunities. The major focuses on direct service programming with an emphasis on supervisory and managerial skills. The Leisure, Youth and Human Services program is accredited by NRPA/AALR.

The Leisure, Youth and Human Services major is offered with six focus

areas: Nonprofit Youth Services Administration; Outdoor Recreation; Programming Services Administration; Therapeutic Recreation; Tourism; and Youth Services. There is a common core of courses for all focus areas, with additional course requirements in each focus area.

Required core:

Leisure, Youth and Human Services: 430:010; 430:020;
 430:110; 430:114; 430:121; 430:169; 430:184;
 430:187; 430:189 35 hours
 Focus area: Choose one of the following 27-33 hours
 62-68 hours

1. Focus area: Nonprofit Youth Administration

The Nonprofit Youth Administration option requires a minimum of 122 total hours to graduate.

Required:

Leisure, Youth and Human Services: 430:060; 430:150;
 430:151; 430:154; 430:155 15 hours
 Supporting courses: As approved by advisor 12 hours
 27 hours

2. Focus Area: Outdoor Recreation

The Outdoor Recreation option requires a minimum of 122 total hours to graduate.

Required:

Leisure, Youth and Human Services: 430:030; 430:050;
 430:130; 430:143; 430:146 15 hours
 Supporting courses: As approved by advisor 12 hours
 27 hours

3. Focus Area: Programming Services Administration

The Programming Services Administration option requires a minimum of 122 total hours to graduate.

Required:

Leisure, Youth and Human Services: 430:030; 430:168;
 430:172; 430:151 12 hours
 Supporting courses: As approved by advisor 15 hours
 27 hours

4. Focus Area: Therapeutic Recreation (Extended Program)

The Therapeutic Recreation option may require a minimum of 127 hours to graduate.

Required:

Leisure, Youth and Human Services: 430:030;
 430:123; 430:160; 430:163; 430:167 15 hours
 Supporting courses: To be developed in consultation
 with advisor 18 hours
 The following are required for National Council
 for Therapeutic Recreation Certification (NCTRC):

Physical Education: 420:050	3 hours
Design, Family and Consumer Sciences: 31F:055	3 hours
Psychology: 400:142	3 hours
Electives: 9 hours in human services content areas including adapted physical education, related biological/physical sciences, human services, psychology, sociology, and special education	<u>9</u> hours
	33 hours

Note: 400:001 may be used to satisfy Category 5A and 980:001 may be used to satisfy Category 5A/5C of the Liberal Arts Core.

5. Focus Area: Tourism

The Tourism option requires a minimum of 122 total hours to graduate.

Required:

Leisure, Youth and Human Services: 430:070; 430:075; 430:170; 430:171; 430:172; 430:173	18 hours
Supporting courses: As approved by advisor	<u>9</u> hours
	27 hours

6. Focus Area: Youth Services

The Youth Services option requires a minimum of 122 total hours to graduate.

Required:

Leisure, Youth and Human Services: 430:030; 430:060; 430:155; 430:157	12 hours
Supporting courses: As approved by advisor	<u>15</u> hours
	27 hours

Leisure, Youth and Human Services Minor

Required:

Leisure, Youth and Human Services: 430:010; 430:020; 430:030; 430:110	12 hours
Electives: Two of the following)	6 hours
Leisure, Youth and Human Services: 430:114; 430:121; 430:123; 430:168; 430:169; 430:172.	<u> </u>
	18 hours

Youth Services Administration Minor

Required:

Youth and Human Service Administration: 430:060; 430:150; 430:151; 430:154; 430:155	15 hours
Leisure, Youth and Human Services: 430:188	<u>2</u> hours
	17 hours

Program Certificates

For information on the following program certificates, see page xxx or contact the Leisure, Youth and Human Services Division or Health Promotion and Education Division within the School of Health, Physical Education, and Leisure Services.

Aquatics Specialization Certificate
 Environmental Health Certificate
 Certificate in Global Health and Disparities
 Nonprofit Management and American Humanics Certificate
 Outdoor Recreation Certificate
 School-Age Care Leadership Certificate
 Tourism Certificate

Total number of hours remains the same.

172 MAJOR IN ATHLETIC TRAINING (restatement of MS program)

--Revise to read:

The Athletic Training Master of Science degree is designed for those who are NATABOC certified athletic trainers who wish further education in treatment and rehabilitation of the physically active. This degree is offered on a thesis/non-thesis option. A minimum of 36 semester credit hours is required. A minimum of twenty-one (21) credit hours at the 200 level is required for both the thesis and non-thesis options. Admission is competitive and based upon undergraduate grade point average, recommendations, and interview results. Once admitted each student will be required to complete the program of study as well as the clinical component of the program. All additional requirements and information are available at the Division of Athletic Training Office.

Required:

Measurement and Research: 250:180	3 hours
Athletic Training: 42T:210; 42T:220; 42T:230; 42T:240; 42T:250; 42T:260; 42T:270	14 hours
Physical Education: 420:289 (2hrs); 42T:289 (8 hrs)	10 hours
Health, Physical Education and Leisure Services, Interdepartmental: 440:290	3 hours
Research: 420:299	2 or 6 hours
Thesis Option (6 hrs.)	
Non-thesis Option (2 hrs.)	
Electives	0 or 4 hours
Thesis Option (0 hrs)	
Non-Thesis Option (4 hrs.)	
Common Electives: 420:200; 420:222; 420:251; 420:253; 420:255; 420:260; 420:271	
	36 hours

Total number of hours remains the same.

153 MAJOR IN LEISURE, YOUTH AND HUMAN SERVICES (restatement of MA degree)

--Revise to read:

This major is designed to foster preparation for professional leadership roles in the administration of leisure, youth and human services agencies. The program offers the student the opportunity to take an active role in determining personal learning objectives and developing individual programs of study. The program supports professional development through the utilization of relevant philosophy, content, and skills in order to provide management and leadership for effective and efficient delivery of leisure, youth and human services. Students are encouraged to focus on study that has direct relevance to professional practice.

There are two curricular emphases available to students in this major: Community Leisure Services Programming and Youth and Human Service Administration. For each option, a minimum of 32 semester hours is required. Up to an additional 12 hours of undergraduate work may be required for students who do not have undergraduate preparation in the area. All undergraduate prerequisites must be fulfilled prior to enrollment in program-specific graduate coursework.

This major is available on the thesis and non-thesis options. The thesis option requires a minimum of 15 hours of 200-level course work, including 6 hours of 430:299 Research. The non-thesis option requires a minimum of 12 hours of 200-level course work, including 3 hours of 430:299 Research. Successful completion of a final comprehensive examination (research paper/thesis) is required for both the thesis and non-thesis options. **A final oral comprehensive examination will occur simultaneously during the oral defense of the research paper or thesis.**

The Graduate Record Examination (General Test) is not required for admission to the program.

1. Community Leisure Services Programming Emphasis

Students interested in the management of recreation and leisure services in public, quasi-public, and private/commercial agencies and organizations are encouraged to pursue an M.A. in Leisure, Youth and Human Services with a Leisure Services Management emphasis.

Required:

- Research Methodology (select one of the following) 3 hours
Health, Physical Education, and Leisure Services, Interdepartmental: 440:290.
Sociology: 980:165; 980:178; 980:201.
- Statistical Analysis (select one of the following) 3 hours
Measurement and Research: 250:180 (or equivalent).
Sociology: 980:160.
Leisure, Youth and Human Services: 430:201;
430:240; 430:250 9 hours
- Research: 430:200 2 or 6 hours
Thesis option (6 hrs.)
Non-thesis option (2 hrs.)
- Electives: Approved by the department . . . 11-15 hours
Recommended electives: 430:202; 430:260

and other courses in consultation with
advisor.

32 hours

2. Youth and Human Service Administration Emphasis

Students interested in the administration of youth and human services in nonprofit and public agencies and organizations are encouraged to pursue an M.A. in Leisure, Youth and Human Services with a Youth and Human Service Administration emphasis.

Required:

Research Methodology (select one of the following) 3 hours
Health, Physical Education, and Leisure Services, Interdepartmental: 440:290.
Sociology: 980:165; 980:178; 980:201.

Statistical Analysis (select one of the following) 3 hours
Measurement and Research: 250:180 (or equivalent).

Sociology: 980:160.

Leisure, Youth and Human Services:

430:201; 430:240; 430:250 9 hours

Research: 430:299 2 or 6 hours

Thesis option (6 hrs.)

Non-thesis option (2 hrs.)

Electives: Approved by the department . . . 11-15 hours

Recommended sub-focus areas:

Youth Development focus:

Educational Psychology: 200:116.

Leisure, Youth and Human Services: 430:260;

430:291 (2-6 hrs.)

Youth and Human Service Administration:

430:240; 430:244.

Human Services Administration focus:

Youth and Human Services Administration:

430:251; 430:253; 430:254; 430:256

32 hours

Note: Students interested in pursuing a doctorate in Leisure, Youth and Human Services should refer to page xxx, Doctor of Education degree.

Total number of hours remains the same.

155

MAJOR IN PHYSICAL EDUCATION (restatement of MA degree)

--Revise to read:

This major is available on the thesis and non-thesis options. A minimum of 30 semester hours is required for both options. Additional hours may be required if, upon entering the graduate program, the student needs prerequisites. Total hours for the thesis option includes 6 hours of

Research 420:299. Total hours for the non-thesis option includes 2 hours of 420:299 for a research paper. A thesis/research paper defense is required.

The Graduate Record Examination (General Test) is not required for admission to the program.

This major offers two emphases:

I. Teaching/Coaching Emphasis:

This emphasis is designed for those students who plan to teach and/or coach in an educational setting at a variety of levels, and is available on the thesis and non-thesis options. A minimum of 15 hours must be at the 200-level for both the thesis and non-thesis options.

If the undergraduate degree in Physical Education does not include a theory class in either Elementary or Secondary Methods in Physical Education, the student will be required to make up the deficiency with one 3 hour undergraduate methods course. This would extend the Teaching/Coaching emphasis to a 33-hour minimum.

Additionally, if the undergraduate degree was not in Physical Education or the student does not have at least 12 hours of undergraduate theory classes (exclusive of activity classes and advanced skill and coaching classes) on the transcript, the student must take 12 hours of either undergraduate or graduate physical education coursework to make up the deficiency; 3 hours of the additional 12 hours must be an undergraduate Elementary or Secondary Methods in Physical Education course. This would extend the Teaching/Coaching emphasis to a 42-hour minimum.

Required:

Physical Education: 420:273; 420:297	6 hours
Measurement and Research: 250:180 or Health, Physical Education, and Leisure Services, Interdepartmental: 440:210 or 440:215	3 hours
Health, Physical Education, and Leisure Services, Interdepartmental: 440:290 or Measurement and Research: 250:205	3 hours
Research: 420:299	2 or 6 hours
Thesis option (6 hrs.)	
Non-thesis option (2 hrs.)	
Electives approved by the advisor.	6 or 10 hours
Thesis option (6 hrs.)	
Non-thesis option (10 hrs.)	
Focus Area: Select one of the following	6 hrs
	30 hours

Public School Focus

Physical Education: 420:230; 420:231 6 hours

Postsecondary Focus

Select two of the following: 6 hours
 Postsecondary Education: 170:218;
 170:230; 170:250.

II. Scientific Bases of Physical Education

This emphasis is designed for those who wish to concentrate their study in one of the subdisciplines of physical education, and is available on the thesis and non-thesis options. A minimum of 21 hours, exclusive of 420:299 credit, must be at the 200-level.

Required:

Physical Education: 420:200 2 hours
 Health, Physical Education, and Leisure
 Services, Interdepartmental: 440:210 or
 equivalent; 440:290 6 hours
 Research: 420:299 2 or 6 hours
 Thesis option (6 hrs.)
 Non-thesis option (2 hrs.)
 Focus area: select one of the following . 16 or 20 hours
 30 hours

Exercise Science Focus:

Physical Education: 420:253; 420:260;
 420:271 8 hours
 Physical Education: 420:285 or 420:293;
 420:289* 3 hours
 Electives approved by the advisor 5-9 hours
 16 or 20 hours

Sport and Exercise Psychology Focus:

Physical Education: 420:222; 420:251;
 420:255 9 hours
 Physical Education: 420:285 or 420:293;
 420:289* 3 hours
 Electives approved by the advisor 4-8 hours
 16 or 20 hours

*420:289 may be repeated as an elective for up to 6 hours.

Total number of hours changes from 16 to 16 or 20 hours.

94 PHYSICAL EDUCATION MAJOR (restatement of major)

--Revise to read:

Division of Physical Education

Movement and Exercise Science Major

Completion of this program prepares students for careers or further study in movement and exercise science or related areas but not for endorsement in K-12 school settings. To declare this major a student must file an approved program of study with her/his advisor.

Required core:

Physical Education: 420:018; 420:050; 420:053;
 420:056; 420:121; 420:151; 420:153; 420:162 . . . 21 hours
 Choose one of the following emphases 18 hours
 39 hours

Emphasis 1: Dance Education

This emphasis provides a broad background in dance education. Students in this emphasis are strongly encouraged to take 420:034 as their Liberal Arts Core Category 3A requirement.

Physical Education: 420:013; 420:031; 420:132;
 420:135 8 hours
 Physical Education: 420:036 (2 hrs.); 420:140
 (2 hrs.) 4 hours
 Physical Education: minimum of 6 hours from
 420:191, 420:193, 420:194, 420:197 6 hours
 18 hours

Emphasis 2: Exercise Science

This emphasis prepares students with a broad background in exercise science with the ability to implement individual and group exercise and fitness programs and as a preparation for graduate study in exercise science.

Physical Education: 420:025; 420:122; 420:156;
 420:186 (5 hrs.) 12 hours
 Physical Education: minimum of 6 hours from
 420:191, 420:193, 420:194, 420:197 6 hours
 18 hours

Emphasis 3: Sport Psychology

This emphasis provides a broad education in sport psychology and is designed to prepare students interested in pursuing careers in coaching, youth sport, as a sport teaching professional, motivational trainer, or for advanced studies in coaching. Students in this emphasis are strongly encouraged to complete a coaching minor.

Physical Education: 420:019; 420:122; 420:154;
 420:186 (7 hrs.) 12 hours
 Physical Education: minimum of 6 hours from 420:191,
 420:193, 420:194, 420:197 6 hours
 18 hours

Total number of hours remains the same.

130 TOURISM CERTIFICATE (restatement of certificate)

--Revise to read:

The Tourism Certificate is administered by the Leisure, Youth and Human Services Division within the School of HPELS, College of Education. For

information on this program certificate, interested students should contact the Division of Leisure, Youth and Human Services, Tourism Advisor, 203 WRC.

Required:

Tourism: 430:070, 430:075* 6 hours
6 credits from the following: 6 hours
Leisure, Youth and Human Services: 430:171;
430:173; 430:138.
3 credits from the following: 3 hours
Leisure, Youth and Human Services: 430:146;
430:170; 430:172; 430:138; 440:120; 440:186.
15 hours

*If student has successfully completed 130:101 Marketing, this course can be substituted for 430:075.

Total number of hours remains the same.

130 YOUTH AGENCY ADMINISTRATION PROGRAM CERTIFICATE (restatement of certificate)

--Revise to read:

NONPROFIT MANAGEMENT AND AMERICAN HUMANICS CERTIFICATE

THIS CERTIFICATE PROVIDES KNOWLEDGE, SKILL-BUILDING AND PROFESSIONAL EXPERIENCE FOR STUDENTS INTERESTED IN WORKING IN THE NONPROFIT SECTOR. EARNING THIS CERTIFICATE AT UNI ALSO ENABLES STUDENTS TO EARN A NATIONAL CERTIFICATE IN NONPROFIT MANAGEMENT FROM AMERICAN HUMANICS INC.

Students interested in this certificate should contact the School of Health, Physical Education, and Leisure Services (273-2141) or the Registrar's Office, which serves as the centralized registry.

2004-2006 Program Requirements

These requirements are required for students who complete this certificate between fall 2004 and spring 2006.

Required:

Youth and Human Service Administration: 430:060;
430:050; 430:151; 430:154 12 hours
Leisure Services Internship: 430:187 8 hours
Nonprofit Leadership Practicum: 430:188 2 hours
22 HOURS

Total number of hours decreases from 26 to 22

online YOUTH DEVELOPMENT IN RELIGIOUS SETTINGS CERTIFICATE

Drop program only from School of HPELS listing. This program will be administered only by the Department of Philosophy and Religion.

The following sections of catalog need to be changed to reflect this:

page 52 - under list of program certificates, delete this certificate from listing under School of HPELS and remove the phrase "(jointly offered by Department of Philosophy and Religion and HPELS) from the listing under Department of Philosophy and Religion.

page 96 - under "Program Certificates", delete the last paragraph "The Youth Development in Religion Settings...or the Department of Philosophy and Religion." and also "Youth Development in Religious Settings Certificate."

page 117 - under "Program Certificates" the paragraph should be changed to "For information on the following program certificate, see page xxx or interested students should contact the Department of Philosophy and Religion."

page 131 - under School of HPELS certificates - delete "Youth Development in Religious Settings Certificate"

page 132 - under Department of Philosophy and Religion, the paragraph should be changed to "For information on the following program certificate, see page xxx or interested students should contact the Department of Philosophy and Religion."

50 New statement

--Revise to read:

Health Promotion Major/Environmental Health Option students may meet these requirements.

- A. 840:051, or 840:052
- B. 860:044, 860:048, 860:070

130 change in certificate name

--Revise to read:

The current Certificate in Global Health/Culturally Competent Health Care should be changed to read:

Certificate in Global Health and Health Disparities

217 change in frequency of course offering for 410:164

--Revise to read:

offered spring semesters

217-218 change semester of course offering for 410:293

--Revise to read:

offered spring

222 Change in semester the course 430:146g is offered.

--Revise to read:

Fall

222 Change in semester the course 430:143 is offered.

--Revise to read:

Spring

600:163(g) New Course. Performance Art II -- 3 hrs.
Performance Art II Exploration of action-based artmaking with emphasis placed on site specific and durational works. Relationships between artist and audience will be discussed, as well as the introduction of basic digital video editing. Prerequisite: 600:060; Junior standing.

600:173(g) New Course. Performance Art III -- 3 hrs.
Focused exploration of action-based art with greater emphasis on self-direction. Directed study of contemporary time-based artwork. Strategies of live art documentation and development of a performance portfolio. Prerequisites: 600:163; Junior standing.

241 600:060 Change title. Title from (Performance Art) to "Performance Art I."

Online 600:092 Change number (Elementary Art Education II). New number 600:092. [Formerly 600:120].

241 600:108 Drop Course. Principles and Techniques of Arts Management I -- 3 hrs.

241 600:109 Drop Course. Principles and Techniques of Arts Management II -- 3 hrs.

Online 600:119 Change number (Secondary Art Education I). New number 600:119. [Formerly 600:093].

Online 600:132 Change description (Color Photography). Description: Introduction to working with color photographic materials and processes including color negative films (Process C-41), transparency films (Process E-6) and negative printing papers.

243 600:295 Change description (Seminar in Teaching Art). Description: Exploration of various topics in art education. Special emphases on teaching and learning theories, media and methods. Satisfies special methods elective for the professional core. Required to be taken twice for maximum of 9 hours. (Variable).

147 MAJOR IN ART (restatement of MA program)

--Revise to read:

This major has a written or creative thesis option. Each student, regardless of emphasis, must complete a minimum of 30 semester hours. A minimum of 15 semester hours of 200-level course work is required for the thesis options.

The Graduate Record Examination (GRE) is not required for admission to the program.

Individualized programs of study are carefully planned and approved in consultation with a graduate advisor. All degree candidates are required to pass a formal Comprehensive Review in partial fulfillment of the Master of Arts degree requirements.

Two emphases are offered: Art Education and Studio

Qualified applicants are admitted by the Graduate Faculty Admission Committee following selective review of all prior academic and creative achievement. A review of the applicant's undergraduate course work and portfolio is the basis for admission to the graduate program. The Chair of Graduate Studies in the Department of Art should be contacted for specific information regarding the preparation of the applicant's portfolio.

As a general rule, students who have received an undergraduate degree in art will be admitted to the program without additional course requirements. Additional course work may be required of those applicants who meet all other admission criteria but did not complete an undergraduate degree in art. Credit for additional work may not apply toward the degree program.

ART EDUCATION EMPHASIS

Students whose emphasis is Art Education may elect the written or creative thesis option in their individualized area of exploration. Students will complete a written or creative thesis in their individualized area of exploration. The thesis may have theoretical and/or applied emphasis and will result in, for example, a written, visual and/or audio presentation or exhibition. Formal documentation of the thesis will be submitted to the Dean of the Graduate College.

All degree candidates are required to pass a formal Comprehensive Review in partial fulfillment of the Master of Arts degree requirements.

1. Minimum of 30 hours credit earned with at least a 3.0 while completing the following requirements:

600:295 Seminar in Teaching Art (may be repeated for maximum of 9 hours)	6-9 hours
600:100 Art History	6 hours
600:280 Seminar: Critique and Analysis (must be taken twice)	4 hours
Elective Graduate Courses with Consent of Advisor	5-8 hours
600:299 Research (Thesis or Special Project)	6 hours

TOTAL

30 hours

ART EDUCATION WITH CERTIFICATION FOR LICENSURE OPTION

Students electing to pursue teaching certification for licensure to teach art in grades K-12 need to complete the following College of Education Professional Sequence required for Certification in addition to M.A. Art Education coursework.

Level I

200:017 Field Experience: Exploring Teaching	1 hour
200:030 Dynamics of Human Development (K-12)	3 hours
200:150 Meeting the Needs of Diverse Learners	2 hours

Students must be fully admitted into the Teacher Education Program before registering for Level II courses.

Level II

200:128 Field Experience: Teacher as a Change Agent	1 hour
200:148 Learning and Instruction in Classroom Contexts	3 hours
200:150 Classroom Evaluation Instruments	2 hours

Level III

260:119 School & American Society	3 hours
280:070 Human Relations	3 hours
280:140 Student Teaching	12 hours

TOTAL

30 hours

*This program is subject to revision due to state licensure requirements and changes in the Teacher Education Program.

STUDIO EMPHASIS

In addition to the common core, students may elect specialization in any one of the following studio areas: ceramics, drawing, graphic design, jewelry/metals, photography, painting, printmaking or sculpture. The degree program is flexible to allow maximum focus upon a specific studio area and/or supportive studio work in several or combined areas.

The creative thesis is required for students pursuing the Studio Emphasis. It requires the public presentation of a formal exhibition, performance or project including an announcement, together with a formal documentation of that presentation for submission to the Dean of the Graduate College.

Guidelines, procedures and requirements for each emphasis and program option are available from the Department of Art.

All degree candidates are required to pass a formal Comprehensive Review in partial fulfillment of the Master of Arts degree requirements.

Critique and Analysis	4 hours
Art History	6 hours
Graduate Studio	14 hours
Research (Studio Thesis)	<u>6</u> hours

TOTAL

30 hours

COMMUNICATION STUDIES

Online 48C:080 Change prerequisites (Introduction to Research Methods). Prerequisites: 48C:001.

Online 48C:128g Change hours, description, and prerequisites (Ethics in Communication). Hours from 2 to 3. Description: Change description to the following: Exploration of ethical dimensions and dilemmas in communication. Prerequisites: junior standing.

230 48E:195 Change hours and description (Senior Seminar in Electronic Media). Hours from 1 to 3. Description: Students explore decision-making models that can be applied to ethical dilemmas in the electronic media field and learn to how to package themselves professionally (cover letter, resume, portfolio).

74 COMMUNICATION/ELECTRONIC MEDIA MAJOR (restatement of major)

--Revise to read:

Electronic Media Major

Major requirements: This program requires completion of 48 credit hours. Course prerequisites are listed in parentheses following each class.

Required: (30 hours)

Electronic Media: 48E:003; 48E:011 OR 48E:013 OR 48E:112; 48E:021; 48E:071; 48E:121; 48E:132; 48E:141; 48E:179 OR 48E:197; 48E:195 27 hrs.

Journalism: 48J:00 2 3 hrs.

Electives from the following 18 hrs.

Communication Studies: 48C:004; 48C:011; 48C:108 OR 48C:110; 48C:113; 48C:121; 48C:122; 48C:124; 48C:126; 48C:132; 48C:134; 48C:144; 48C:146; 48C:166; 48C:173; 48C:176; 48C:180 or 48C:183 or 48C:189.

Electronic Media: 48E:073; 48E:111; 48E:113; 48E:115; 48E:117; 48E:123; 48E:131; 48E:134; 48E:136; 48E:138; 48E:139; 48E:161; 48E:166; 48E:171.

Journalism: 48J:007.

Marketing: 130:101; 130:106; 130:150.

Management: 150:153.

48 hrs.

Total hours remain the same.

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COMMUNICATIVE DISORDERS

- 234 51C:006 Change description (Understanding Communication Disorders).
Description: Provides a general understanding of normal and
disordered speech, language, and hearing in adults and
children. Covers normal development of communication behavior,
the nature of communication disorders, and how speech-language
pathology and audiology interact with allied fields (e.g.,
education, medicine, psychology, and special education).
- 234 51C:106 Change title. Title from (Language Acquisition in Children) to
"Language Acquisition in Children: Birth to 5 Years."
- Online 51C:114 Drop prerequisite (Anatomy and Physiology of Speaking
Mechanism).
- Online 51C:125 Change prerequisites (Disorders of Speech Sounds).
Prerequisite: 51C:111; or consent of instructor.
- Online 51C:127g Change title and description. Title from (Disorders of
Language) to "Language of School-aged Children." Description:
Language development of older children. Assessment and
intervention principles and techniques for children of school
age with language disorders. Includes issues in cultural and
linguistic diversity, literacy and collaboration with classroom
teachers.
- Online 51C:129 Drop "g". (Clinical Examination).
- Online 51C:151 Change prerequisites (Clinical Processes I, Analysis and
Observation). Prerequisite: 51C:006 or 51C:106; or consent of
instructor.
- Online 51C:155 Change prerequisites (Clinical Practice). Prerequisites:
51C:106, 51C:125, 51C:152; Communicative Disorders majors only.
- Online 51C:160g Change prerequisites (Augmentative Communication).
Prerequisites: junior standing.
- Online 51C:166g Change prerequisites (Introduction to Fluency). Prerequisites:
51C:106; junior standing.
- 234 51C:173 Change prerequisites (Advanced American Sign Language (ASL)).
Prerequisites: Grade of C or better in 51C:170; junior
standing.
- Online 51C:175g Change prerequisites (Hearing Science). Prerequisite: junior
standing.
- Online 51C:257 Change description (Internship in Clinical Settings).
Description: Advanced clinical experience in settings such as
hospitals, rehab. centers, schools. Minimum 8-week, full time
internship when taken in addition to 280:250; minimum 16-week,

full time without 280:250. Prerequisite: consent of instructor.
(offered, Fall, Spring, Summer).

159 Minimum grade/gradepoint policy

--Revise to read:

This major is available on the thesis and non-thesis options. A minimum of 40 semester hours is required for the thesis option, and a minimum of 39 hours is required for the non-thesis option. A minimum of 6 hours of 51C:299 is required for the thesis option. A minimum of 32 hours 200-level course work is required.

The Graduate Record Examination (General Test) is required for admission to the program.

Successful completion of a final oral and/or written comprehensive examination is required for both thesis and non-thesis options.

Requirements for this major include both graduate and undergraduate courses considered essential to certification and the master's degree. Asterisked (*) courses will normally have been completed at the undergraduate level; if not, the student and departmental graduate academic advisor will determine how such incomplete requirements will be met. Students must complete 25 clock hours of supervised clinical observation prior to beginning clinical practice.

Students are expected to receive grades of B- or better in each of the three required credits of 51S:250 Clinical Assessment and each of the four required credits of 51S:255 Advanced Clinical Practice. Students who do not receive a B- grade will be required to meet with the clinic director and department head for review and consultation. Students who demonstrate significant difficulties in the clinical courses, such as failing to meet the B- requirement, may be asked to take an additional semester of either 51S:250 or 51S:255.

Communicative Disorders: 51C:106*; 51C:107*; 51C:111*; 51C:114*;
51C:125*; 51C:127*; 51C:129*; 51C:151*; 51C:152*; 51C:155*;
51C:162*; 51C:166*; 51C:168*; 51C:175*; 51C:177*; 51C:180*.

Required:

Communicative Disorders: 51C:200; 51C:282 3 hrs.
Speech-Language Pathology core: 51S:222; 51S:226;
51S:228; 51S:229; 51S:230; 51S:232; 51S:250 (3 hrs.);
51S:255 22 hrs.
Research: 51C:299 1-6 hrs.
Thesis option (6 hrs.)
Non-thesis option (1-3 hrs.)
Internship: 51C:257 and/or 280:250 4-16 hrs.
Electives 5-9 hrs.
A minimum of 2 hours of 51S:289 is required and other
courses as approved by the graduate advisor.
Thesis option (5 hrs.)
Non-thesis option (9 hrs.)

TOTAL 39-51 hrs.

Students may select a thesis or non-thesis option upon consultation with their graduate advisor. In the Department of Communicative Disorders, all students must have the signature of their advisor for registration for classes, including all adds and drops. Students who are suspended by the Graduate College may not enroll for major courses within this department.

All students must abide by the policies and procedures found in the Graduate Student Handbook, which is published by and available in the department.

The student, in consultation with the advisor, must choose courses designed to meet the standards of the Council on Academic Accreditation of the American Speech-Language-Hearing Association academic requirements for the Certificate of Clinical Competence. Recommendation for clinical certification will be given only upon successful completion of all academic and clinical requirements.

The student must complete a total of 400 clock hours of which 25 are observation and 375 are in direct patient contact in the supervised clinical practicum; at least 325 of the 400 clock hours must be at the graduate level. Certificates in specialty areas will be awarded to students who complete the core and a minimum of 6 additional hours in one or two areas of emphasis. Students should consult with their advisor concerning the specialty certificates.

Based on satisfactory completion of an undergraduate degree in Communicative Disorders or the equivalent, course work, clinical assignments, and the internship experience will ordinarily take four semesters and one summer.

Students seeking endorsement #237 by the Iowa Department of Education must enroll in Human Relations (280:170g). In addition, students are required to complete a minimum of 10 semester hours of course work in professional education, to be selected under guidance of the major academic advisor, and 10 semester hours of practicum in a public school internship.

The professional program in speech-language pathology is a program of both undergraduate and graduate courses leading to a Master of Arts degree. The program is designed to prepare students for careers as speech-language pathologists providing remedial services to the speech, language, and hearing disabled in a wide variety of settings including schools, hospitals, clinics, and care centers for the elderly.

ENGLISH LANGUAGE AND LITERATURE

Department of English Language and Literature

CERTIFICATE IN POST-COLONIAL AND MULTICULTURAL LITERARY STUDIES (new certificate)

This certificate offers explorations of post-colonial, multicultural, and ethnic literary studies that will help equip students to participate in an increasingly diverse society.

Required	3 to 6 hrs
English: 620:040.	
French: 720:031.	
Portuguese: 790:031.	
Electives	12 to 9 hours
(to include at least 9 hours of 1XX-level courses)	
English: 620:055; 620:128; 620:157; 620:158;	
620:184; 630:160.	
French: 720:108; 720:128.	
German: 740:132.	
Spanish: 780:104; 780:120; 780:127.	
TOTAL:	15 hours

87 ENGLISH MAJOR -- TEACHING (restatement of major)

--Revise to read:

Required:

English: <u>620:034</u> ; 620:040; 620:042; 620:043; 620:053.	15 hours
One of the following	3 hours
English: 620:102; 620:103; 620:104; 620:105; 620:163	
or	
Journalism: 48J:171.	
TESOL/Applied Linguistics: 630:125 or 630:130	3 hours
One of the following	3 hours
TESOL/Applied Linguistics: 630:143; 630:165;	
630:190; 630:195.	
Literacy Education: 230:117	3 hours
Communication: <u>48C:001</u>	3 hours
English: 620:165; 620:190; 620:193	9 hours
Electives in English literature, at least one course	
from each group	9 hours
*Within each group, other appropriate topics may	
be offered in sections of 620:150, 620:159, 620:186,	
and 620:188.	
Group A. Literature in English to 1800: 620:113;	
620:116; 620:117; 620:144; 620:147; 620:148; 620:151.	
Group B. Literature in English since 1800: 620:115;	
620:118; 620:119; 620:120; 620:121; 620:123;	
620:124; 620:126; 620:134; 620:153; 620:156.	
Group C. Literary Theory, Film, Cross-Cultural:	
620:128; 620:139; 620:142; 620:155; 620:157; 620:158;	
620:161; 620:172; 620:182; 620:184.	

Total

48 hours

Note: Prerequisites for student teaching in English are a grade point average of 2.50 in English major courses and a grade of C or better in 620:190.

Total number of hours decreases from 49 to 48 hours.

88

TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES (TESOL)
MAJOR -- TEACHING (restatement of major)

--Revise to read:

Student teaching at both the K-6 and 7-12 levels is required to earn the ESL K-12 endorsement on an Iowa teaching license.

Required:

English: literature core--at least one course from each group 9 hours

- a. 620:034
- b. 620:042 or 620:053
- c. 620:040 or 620:043 or 620:053

Note: 620:053 may be used for "b" or "c" but not both.

English: one of the following: 620:103; 620:104; 620:105; 620:193 3 hours

TESOL/Applied Linguistics:

- 630:125 or 630:130; 630:135 or 630:160 or 630:163 6 hours
- 630:154; 630:165; 630:192; 630:193; 630:194; 630:196 18 hours

Electives in TESOL/Applied Linguistics 3 hours

Electives in literature or TESOL/Applied Linguistics 3 hours

Total 42 hours

Note: International students must have achieved a paper-based TOEFL score of 600 or a computer-based score of 250 or the equivalent in order to demonstrate their proficiency in English.

It is strongly recommended that native speakers of English majoring in TESOL programs demonstrate a basic competence in a foreign language either by obtaining at least a C grade in the second semester of a language course or by passing a proficiency examination.

Total number of hours remains the same.

87

TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES (TESOL)
MAJOR (restatement of major)

--Revise to read:

Required:

English: literature core--at least one course from each group 9 hours

- a. 620:034
- b. 620:042 or 620:053
- c. 620:040 or 620:043 or 620:053

Note: 620:053 may be used for "b" or "c" but not both.
English: one of the following: 620:103; 620:104;
620:105; 620:193 3 hours
TESOL/Applied Linguistics: 630:125 or 630:130;
630:135 or 630:160 or **630:163** 6 hours
630:154; 630:165; 630:192; 630:193; 630:194;
630:196 18 hours
Electives in TESOL/Applied Linguistics **3 hours**
Electives in literature or TESOL/Applied Linguistics . 3 hours
Total 42 hours

Note: International students must have achieved a paper-based TOEFL score of 600 or a computer-based score of 250 or the equivalent in order to demonstrate their proficiency in English.

It is strongly recommended that native speakers of English majoring in TESOL programs demonstrate a basic competence in a foreign language either by obtaining at least a C grade in the second semester of a language course or by passing a proficiency examination.

Total number of hours remains the same.

MODERN LANGUAGES

- 720:108g New Course. Special Topics in Francophone Culture -- 3 hrs.
hrs.
Aspects of Francophone history and culture. May be repeated on
different topic. Prerequisites: 720:101 or equivalent; Junior
standing.
- 720:114g New Course. The World of French Business -- 3 hrs.
Study of various aspects of French culture relevant to the
business world. Prerequisites: 720:101 or equivalent; Junior
standing.
- 720:128g New Course. Special Topics in Francophone Literature -- 3 hrs.
Special topics and aspects of the discipline. May be repeated
on different topic. Prerequisites: 720:101 and 720:104 or
equivalents; Junior standing.
- 720:144g New Course. Special Topics in French Cinema -- 3 hrs.
Study of French films. Various topics in the areas of history,
culture, cinematic genres, directors and screen adaptations of
literary works. Prerequisites: 720:101 or equivalent; Junior
standing.
- 740:130 New Course. Folklore & Myths in German Literature -- 3 hrs.
Literary study of forms and functions of folklore and myths in
German language literature. Forms, functions, and influences on
culture over time. Prerequisites: 740:101 or 740:103.
- 740:132 New Course. The German-American Experience -- 3 hrs.
Examination of major contributions of immigrants from
German-speaking regions of Europe to cultural and civic
developments in the U.S. from the seventeenth century to the
present through the study of linguistic influences, literary
and artistic expressions, and other authentic documents.
- 740:134 New Course. German Literature and Cinema -- 3 hrs.
Study of cinematic adaptations of various literary works, and
an introduction to major achievements in German cinematic
history. Prerequisite: 740:101 or 740:103; or equivalents.
- 740:136 New Course. Current Events in the German-Language Media -- 3
hrs.
Discussion and critical analysis of political, social,
economic, and cultural developments and trends in contemporary
German-speaking countries as reflected in a variety of media.
Development of German language skills through listening,
reading, speaking, and writing. Prerequisite: 740:101 or
740:103.
- Online 720:031 Change description (Introduction to Francophone Literature in
Translation). Description: Understanding and appreciating basic
forms of Francophone literatures in English translation through
close reading of literary texts.

- 252 720:108g Drop Course. Introduction to Interpreting -- 3 hrs.
- Online 720:111g Add "g". Change hours and prerequisites (Business French). Hours from 2-4 to 3. Prerequisites: 720:101 or equivalent; junior standing or consent of instructor. (Offered odd Falls).
- 252 720:114g Drop Course. Short Stories -- 3 hrs.
- Online 720:122g Change title and prerequisites. Title from (Special Topics in Literature) to "Special Topics in French Literature." Prerequisites: 720:101; 720:104; or equivalents; Junior standing or consent of Instructor (variable).
- Online 720:124g Change title, description, and prerequisites. Title from (Contemporary France) to "French Civilization." Description: Aspects of French history and culture up to the 19th Century. Prerequisites: 720:101 or equivalent; Junior standing or consent of Instructor. (Variable).
- Online 720:125g Change title, description, and prerequisites. Title from (French Culture and Civilization) to "Contemporary France." Description: Survey of recent developments in France: its people, customs and way of life, institutions, geography, economy and art. May be repeated once through Study Abroad. Prerequisites: 720:101 or equivalent; Junior standing or consent of Instructor. (Variable).
- 252 720:128g Drop Course. Literature of Ideas -- 3 hrs.
- 252 720:144g Drop Course. Novels of the 19th and 20th Centuries -- 3 hrs.
- Online 720:191 Change title, description, and prerequisites. Title from (Bilingual Practicum) to "Practicum in Teaching French." Description: Participants acquire knowledge of foreign language methodologies through practical applications, including lesson planning, class observations, materials development, and technology integration. Required for students in second language acquisition and foreign-language teacher education. Prerequisite: 720:101. Pre- or Corequisite: 700:190.
- Online 720:225 Change title and description. Title from (Problems in Translation) to "Translation Strategies." Description: Study of translation theories and practical applications of translation techniques (including newer technologies) with a variety of texts drawn from daily life, literary, commercial, legal and other professional sources.
- Online 720:289 Change description (Seminar). Description: A range of critical and analytical approaches will be used to study various topics in the areas of literature and culture. May be repeated on different topic.
- Online 740:105g

Change title, description, and prerequisites. Title from (Stylistics) to "Advanced German Communication." Description: Further development of speaking, writing, reading, and listening skills through the study of German language media. Prerequisites: 740:103 or 740:101; or equivalents; junior standing.

- Online 740:116g Change title and description. Title from (Post World War II Culture and Literature) to "Modern Literature and Culture." Description: Introduction to literary and sociocultural developments in German-speaking communities from the turn of the Twentieth Century to the present.
- Online 740:123g Change title and description. Title from (Civilization of German-Speaking Countries) to "Cultural History of German-speaking Countries." Description: Critical investigation into the relationships between language and historical and sociocultural development of German-speaking countries.
- 254 740:127g Drop Course. Culture and Literature: 1918-1945 -- 3 hrs.
- 254 740:128g Drop Course. Culture and Literature: Middle Ages to Baroque -- 3 hrs.
- 254 740:143g Drop Course. Culture and Literature: 18th and 19th Century -- 3 hrs.
- 254 740:147g Drop Course. Masterpieces of the German Stage -- 3 hrs.
- Online 740:160g Change title and description. Title from (History of the German Language) to "German Language: Its History and Current Trends." Description: Surveys developments and trends in the German language from its beginning to the present time.
- Online 740:191 Change title, description, and prerequisites. Title from (Bilingual Practicum) to "Practicum in Teaching German." Description: Participants acquire knowledge of foreign language methodologies through practical applications, including lesson planning, class observations, materials development, and technology integration. Required for students in second language acquisition and foreign-language teacher education programs. Prerequisite: 740:101. Pre- or Corequisite: 700:190.
- Online 740:201 Change title and description. Title from (Composition and Stylistics) to "Academic Writing and Research Strategies in German." Description: Development of discipline-specific writing and research skills, including investigation into grammatical structures and stylistic problems in the study of German.
- Online 740:225 Change title and description. Title from (Problems in Translation) to "Translation Strategies." Description: Study of translation theories applied to readings drawn from daily life; literature; business, legal, and other professional sources. Includes use of new technologies for translation.

- Online 740:289 Change description (Seminar). Description: Critical investigation into special topics emphasizing cultural and literary issues within the discipline.
- 255 780:100 Change description and prerequisites (Teaching Spanish in the Elementary School). Description: Techniques and practice in teaching Spanish at the elementary school level; weekly teaching experience in local schools, plus class sessions. May be repeated once. Prerequisites or corequisites: 780:055 and consent of instructor.
- 256 780:127 Change prerequisites (Latinos in the United States). Prerequisite: 780:101 or 780:150 or equivalent.
- 256 780:143g Change prerequisites (Pronunciation and Oral Proficiency). Prerequisites: 780:108g or equivalent; junior standing or consent of instructor.
- 256 780:147g Change description (Structure of Spanish). Description: Study of Spanish syntax using current linguistic theories.
- 256 780:162g Change prerequisites (Spanish American Literature: _____). Prerequisites: 780:112 or 780:118 or equivalent; junior standing or consent of Instructor.
- 256 780:163g Change prerequisites (Peninsular Literature: _____). Prerequisites: 780:112 or 780:118 or equivalent; junior standing or consent of Instructor.
- 256 780:164g Change prerequisites (Hispanic Literature: _____). Prerequisites: 780:112 or 780:118 or equivalent; junior standing or consent of Instructor.
- 256 780:166g Change prerequisites (Topics in Literature and Culture: _____). Prerequisites: 780:112 or 780:118 or equivalent; junior standing or consent of Instructor.
- 256 780:240 Change description (Analysis of Spanish). Description: Advanced study of current syntactic theories applied to topics relevant to Spanish.

online FRENCH MAJOR (restatement of major)

--Revise to read:

French Studies Major

Required:

French: Minimum 33 hrs in French in courses more advanced than 720:002 and 720:004. Required 720:101, 720:103. At least 24 of the total 33 hrs must be 100 or above.

33 hours

Emphases:

- 1. Liberal arts
 Required: 720:104; 720:122 and at least one course
 from each category:
 - a. 720:124; 720:125.
 - b. 720:105; 720:161; 720:185.
 - c. 720:108; 720:128.
- 2. Business
 Required: 720:102; 720:111; 720:114;
 720:124 or 720:125; 720:181.

Total number of hours remains the same.

online FRENCH MAJOR - TEACHING (restatement of major)

--Revise to read:

French Studies Major - Teaching

Required: a minimum of 38 semester hours as follows:

Methods: 700:190 (3 hrs.); 700:193 (2 hrs.) 5 hours

French: Minimum 33 hours in French in courses more
advanced than 720:002 and 720:004.

Required: 720:101, 720:103, 720:104, 720:122g
and 720:191 (2 hrs). At least 24 of the total

33 hours must be 100 or above

and including at least one course from each

of the following groups 33 hours

- a. 720:124; 720:125.
- b. 720:105; 720:161; 720:185.
- c. 720:108; 720:128.

38 hours

Total number of hours remains the same.

112 FRENCH MINOR (restatement of minor)

--Revise to read:

French Studies Minor

Required:

French: 720:101 or 720:103. 3 hours

18 hours in French in courses more advanced

than 720:002 and 720:004 18 hours

21 hours

Total number of hours remains the same.

158 MAJOR IN SPANISH (restatement of MA program)

--Revise to read:

This emphasis is available on both the thesis and non-thesis options. A minimum of 32 semester hours is required for either option. A minimum of 18 hours of 200-level course work, including 6 hours of 780:299, is required for the thesis option. A minimum of 15 hours of 200-level course work is required for the non-thesis option. In the case of the non-thesis option, a research paper must be approved by the student's committee and filed with the Department of Modern Languages before the comprehensive examinations may be taken. Successful completion of a final written and oral comprehensive examination is required for both the thesis and non-thesis options.

The Graduate Record Examination (General Test) is not required for admission to the program.

Required:

Languages: 700:295	2 hours
Spanish: Literature courses must include one 200-level course in Spanish literature and one 200-level course in Spanish-American literature. . .	12 hours
Spanish: Linguistics, grammar and/or translation courses	8 hours
Spanish: Culture and Civilization courses	3 hours
Electives	<u>7</u> hours
(6 hours of 780:299 required for thesis option)	
	32 hours

No more than 6 hours of translation 780:145 and/or 780:245 may be applied toward this major.

Total number of hours remains the same.

online MAJOR IN TESOL / MODERN LANGUAGES (restatement of MA program)

--Revise to read:

This major is available on the non-thesis option only. A minimum of 33 semester hours is required, including a minimum of 18 hours at the 200-level. An approved research paper is also required. The student who has not completed 7x0:101 and either 630:125 or 630:130 (or the equivalent) before entering the master's degree program must add these courses to the requirements listed below. There is no separate modern language requirement.

The Graduate Record Examination (General Test) is not required for admission to the program.

Successful completion of a final written comprehensive examination is required for this MA major, as specified by the TESOL/Applied Linguistics and Modern Language faculties. See the TESOL Graduate Coordinator for details.

Required:

TESOL/Applied Linguistics: 630:192; 630:193 or 630:194; 630:201; 630:240 or 630:289 or 630:295; 630:292; 630:297	18 hours
Electives: One of the following language emphases for	

a minimum total emphasis of 15 hours of which 6 hours
 must be at the 200-level 15 hours
 33 hours

French Emphasis:

Languages: 700:190* or 700:290 3 hours
 French: 720:124 or 720:125, and one of the
 following 720:203; 720:207; 720:270; 720:271;
 720:289 6 hours
 Plus courses approved by the graduate French
 advisor 6 hours
 15 hours

German Emphasis:

Languages: 700:190* or 700:290 3 hours
 German: 740:123 or 740:150 3 hours
 Plus courses approved by the graduate German
 advisor 9 hours
 15 hours

Spanish Emphasis:

Languages: 700:190* or 700:290 3 hours
 Spanish: one graduate course in each of the
 following areas: culture and civilization;
 translation; linguistics 6-9 hours
 Plus courses approved by the graduate Spanish
 advisor 3-6 hours
 15 hours

*700:190 is required for a teaching endorsement in Modern Languages;
 700:190 has a required corequisite 7xx:191 (2 hours), which cannot count
 toward an M.A. degree.

Note: International students must have achieved a Test of English as a
 Foreign Language (TOEFL) score of 600 (paper-based)/250
 (computer-based), or the equivalent, in order to demonstrate their
 proficiency in English. An international student may be required to take
 additional English language development courses at the discretion of the
 TESOL/Applied Linguistics faculty.

Students who wish state licensure to teach should request information
 concerning licensure requirements from the Director of Teacher
 Education, University of Northern Iowa, or from the Department of
 Education in the state in which they plan to teach.

This major is offered cooperatively by the Department of English
 Language and Literature and the Department of Modern Languages, and is
 under the jurisdiction and supervision of the heads of these two
 departments.

Total number of hours remains the same.

online MODERN LANGUAGE DUAL MAJOR (restatement of major)

--Revise to read:

Choose two from French - German - Portuguese - Russian - Spanish.

Required: A minimum of 21* semester hours, more advanced than the elementary/introductory level, in each of two languages for a total of 42 semester hours. At least 15 hours in each language must be in courses numbered 100 or higher.

42 hours

*Students with no previous experience in a language may need to take more than 21 hours.

Specific requirement per language:

French: A minimum of 21 semester hours in French in courses more advanced than 720:002 and 720:004, including 720:101, 720:104, and 720:122 at least 15 hours must be in courses numbered 100 or higher, including at least one course from each of the following groups:

- a. 720:124; 720:125.
- b. 720:105; 720:161; 720:185.

German: A minimum of 21 semester hours in German in courses more advanced than 740:002 and 740:004, including 740:101, 740:103, and 740:104 or 740:031, at least 15 hours must be in courses numbered 100 or higher, including at least one course from each of the following groups:

- a. 740:121; 740:123; 740:150.
- b. 740:160; 740:185.
- c. 740:116; 740:122; 740:127; 740:128; 740:143; 740:147.

Portuguese: A minimum of 21 semester hours in Portuguese in courses more advanced than 790:001, including 790:101; with electives from among 720:104, 780:104, 790:002, 790:010, 790:020, 790:031 (or any 620:031 section cross listed with 790:031), 790:060, 790:101, 790:109, 790:123, 790:133, 790:140, 790:179, 790:180, 790:186, 790:191, 790:198, 790:199. At least 15 hours must be in courses numbered 100 or higher.

Russian: A minimum of 21 semester hours in Russian in courses more advanced than 770:002 and 770:004, including 770:101, 770:103, 770:196. At least 15 hours must be in courses numbered 100 or higher.

Spanish: A minimum of 21 semester hours in Spanish in courses more advanced than 780:002, including 780:101**, 780:104 or 780:105, and 780:107 and 780:108, at least 15 hours must be in courses numbered 100 or higher, including at least one course from group a and one course from group b. A maximum of 6 hours of course work in translation may be counted toward a major in Spanish.

- a. 780:120; 780:123; 780:127; 780:152.
- b. 780:112; 780:118; 780:145; 780:146; 780:147.

**The requirement for 780:101 may be replaced by 780:150 in either a UNI or an Iowa Regents program abroad.

Total number of hours remains the same.

online MODERN LANGUAGE DUAL MAJOR - TEACHING (Extended Program)
(restatement of major)

--Revise to read:

The Modern Languages Dual Major in Teaching requires a minimum of 139 total hours to graduate.

Students successfully completing this major will be eligible for licensure/endorsement in two languages. Choose two from French - German - Portuguese (endorsement only) - Russian (endorsement only) - Spanish.

Required:

Languages: 700:190; 700:193 5 hours
Practicum in one of the languages: 720/740/770/
780/790:191 2 hours
Students must have a minimum of 30* semester hours in one language and a minimum of 24 semester hours in another. In each language, at least 21** hours must be more advanced than the elementary/introductory level, 15 hours must be in courses numbered 100 or higher. A total of 59 semester hours is required. 59 hours

**Students with no previous experience in a language may need to take more than 21 hours.

Specific requirement per language:

French: A minimum of 24 (*or 30) semester hours in French, with at least 21 more advanced than 720:002 and 720:004, including 720:101, 720:104, and 720:122, at least 15 hours must be in courses numbered 100 or higher, including at least one course from each of the following groups:
a. 720:124; 720:125.
b. 720:105; 720:161; 720:185.

German: A minimum of 24 (*or 30) semester hours in German, with at least 21 more advanced than 740:002 and 740:004, including 740:101, 740:103, and 740:104 or 740:031, at least 15 hours must be in courses numbered 100 or higher, including at least one course from each of the following groups:
a. 740:121; 740:123; 740:150.
b. 740:160; 740:185.
c. 740:116; 740:122; 740:127; 740:128; 740:143; 740:147.

Portuguese: A minimum of 24 semester hours in Portuguese, with at least 21 more advanced than 790:001, including 790:101; with electives from among 720:104, 780:104, 790:002, 790:010, 790:020, 790:031 (or any 620:031 section cross listed with 790:031), 790:060, 790:101, 790:109, 790:123, 790:133, 790:140, 790:179, 790:180, 790:186, 790:191, 790:198, 790:199. At least 15 hours must be in courses numbered 100 or higher.

Russian: A minimum of 24 semester hours in Russian, with at least 21 more advanced than 770:002 and 770:004, including 770:101, 770:103, 770:196, at least 15 hours must be in courses numbered 100 or higher.

Spanish: A minimum of 24 (*or 30) semester hours in Spanish, with at least 21 more advanced than 780:002, including 780:101*, 780:104 or 780:105, and 780:107 and 780:108, at least 15 hours must be in courses numbered 100 or higher, including at least one course from group a and one course from group b. A maximum of 6 hours of course work in translation may be counted toward a major in Spanish.

a. 780:120; 780:123; 780:127; 780:152.

b. 780:112; 780:118; 780:145; 780:146; 780:147.

*The requirement for 780:101 may be replaced by 780:150 in either a UNI or an Iowa Regents program abroad.

Total number of hours remains the same.

online TESOL / MODERN LANGUAGE MAJOR - TEACHING (Extended Program)
(restatement of major)

--Revise to read:

This major requires a minimum of 137 total hours to graduate. Student teaching at both the K-6 and 7-12 levels is required to earn the ESL K-12 endorsement on an Iowa teaching license.

Required:

English: 620:034; one of the following -- 620:103;
620:104; 620:105; 620:193 6 hours
TESOL/Applied Linguistics: 630:125 or 630:130;
630:135 or 630:160; 630:154; 630:165; 630:192;
630:193; 630:194; 630:196 24 hours
30 hours from one of the language emphases below . 30 hours
60 hours

Emphases--

French:

Languages: 700:190.
French: 720:011; 720:012; 720:051 (3 hrs.); 720:061 (2 hrs.);
720:101; 720:104; 720:105; 720:124 or 720:125; 720:191
(2 hrs.); at least one French literature course; and
electives in French more advanced than 720:002 and 720:004
to make 30 hours.

German:

Languages: 700:190.
German: 740:011; 740:012; 740:013; 740:014; 740:101
(2-3 hrs.); 740:103 (2-3 hrs.); 740:123 or 740:150;
740:191 (2 hrs.); at least one German literature course
and electives in German more advanced than 740:002 and
740:004 to make 30 hours.

Russian:

Languages: 700:190.

Russian: 770:011; 770:012; 770:013; 770:014; 770:101;
770:103; 770:191 (2 hrs.); at least one Russian literature
course; and electives in Russian more advanced than 770:002
and 770:004 to make 30 hours.

Spanish:

Languages: 700:190.

Spanish: 780:055 (4 hrs.); 780:101; 780:104 or 780:105;
780:107 (2 hrs.) and 780:108; 780:120 or 780:123 or
780:127 or 780:152 (3 hrs.); 780:145 or 780:146 or 780:147;
780:191 (2 hrs.); and electives in Spanish more advanced
than 780:002 to make 30 hours.

Note: International students must have achieved a TOEFL paper-based
score of 600/computer-based score of 250 or the equivalent.

Total number of hours remains the same.

Catalog

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MUSIC, SCHOOL OF

- 530:119g New Course. Opera Performance Ensemble -- 1 hr.
Vocal performance ensemble specializing in opera literature.
(Offered Fall and Spring). Prerequisites: junior standing;
consent of Instructor.
- 540:223 New Course. Group Vocal Practicum -- 1 hr.
Concentrates on advanced performance problems, including
diction, interpretation, and presentation, in a master class
style setting. Required each semester in residence. 1 credit
hour per semester, for a total of 4 hours. Prerequisites:
Admission to Master of Music in Vocal Performance degree or
consent of applied instructor.
- 540:288 New Course. Graduate Recital -- 0 hr.
Study of literature programmed for required graduate
recitals. Required for students enrolled in Master of Music
- Major in Performance, Conducting, Composition, or Jazz
Pedagogy during the semester in which required recital
occurs. Prerequisites: Graduate standing. Departmental
approval or consent of applied instructor.
- 560:154g New Course. Singing in Italian -- 1 hr.
A performance class providing studying and applying advanced
techniques in diction and style through critiqued
performances of Italian repertory for the solo voice.
Prerequisites: 560:030 or permission of the instructor;
junior standing.
- 570:175g New Course. Pedagogical Approaches to Music Education -- 3
hrs.
An introduction to the approach, techniques, methods, and
philosophy of Orff, Kodaly, and Dalcroze teaching
pedagogies. (Variable). Prerequisite: 570:141 or graduate
status.
- Online 560:060 Change title and description. Title from (Introduction to
Opera Performance) to "Opera Performance I." Description:
Lab course exploring movement, imagination, and the
relationship between words and music. A wide variety of
acting exercises (improvisation, movement work, etc.) are
used to deepen the understanding of and proficiency in
performing art songs, arias, and music theatre numbers.
- Online 560:161g Change title, description, and prerequisites. Title from
(Opera Workshop I) to "Opera Performance II." Description:
Advanced study of operatic material exploring emotional and
psychological construction of a character and developing
performing skills to create and sustain a role. Audition
required. May be repeated for credit. Prerequisites: 560:060
or permission of instructor; junior standing.
- 237 560:162g

Drop Course. Opera Workshop II -- 2 hrs.

- Online 570:050 Change prerequisites (Introduction to Music Education). Prerequisites: Accepted into Bachelor of Music-Music Education degree program or consent of instructor.
- Online 570:145g Add "g". Change number, hours, and description (Developments and Trends in Music Education). New number 570:145g. Hours from 2 to 3. Description: Evolving issues important to music educators. May be repeated for credit. [Formerly 570:245].
- Online 570:255 Change title. Title from (School Music Administration) to "School Music Administration and Classroom Management."
- 238 570:275 Drop Course. Orff Overview and Pedagogy -- 2 hrs.
- 238 570:276 Drop Course. Kodaly Overview and Pedagogy -- 2 hrs.
- 238 570:277 Drop Course. Dalcroze Overview and Pedagogy -- 2 hrs.
- 238 570:278 Drop Course. The Eclectic Curriculum -- 2 hrs.
- 240 595:120g-11 Drop Course. Performance Literature: Voice IV, Art Song: Other -- 2 hrs.
- Online 595:120g-09 Change prerequisites (Performance Literature: Voice II, Art Song: German Language). Prerequisites: junior standing.
- Online 595:120g-10 Change title, description, and prerequisites. Title from (Performance Literature: Voice III, Art Song: English Language) to "Performance Literature: Voice III, Art Song: English and French Language." Description: The study of vocal literature (repertoire) from English and French-speaking countries with regard to historical background, style, and interpretation. Prerequisites: junior standing.
- Online 595:120g-12 Change title and prerequisites. Title from (Performance Literature: Voice V, Opera Literature) to "Performance Literature and Repertory - Voice IV, Opera Literature." Prerequisite: junior standing.

169 MASTER OF MUSIC - MAJOR IN COMPOSITION (restatement of MA degree)

--Revise to read:

This major is offered on the thesis/recital option only, and requires a minimum of 34 semester hours. A minimum of 15 semester hours of 200-level course work is required.

The Graduate Record Examination (General Test) is not required for admission to the program.

Required:

Graduate music core:

Music Theory: 580:210; 580:211	6 hours
Music History and Musicology: 590:221	2 hours
One course from the following:	
590:110; 590:111; 590:112; 590:114; 590:115	3 hours
Specialization:	
Applied Music: 540:254	12 hours
Music electives: primarily in the areas of music, literature, and theory	11 hours
Recital: 540:289	<u>0</u> hours
TOTAL	34 hours

Additional Requirements:

1. Performance recital of candidate-generated compositions.
2. Recital paper.

Total number of hours remains the same.

169 MASTER OF MUSIC - MAJOR IN CONDUCTING (restatement of MA program)

--Revise to read:

This major is offered on the thesis/recital option only, and requires a minimum of 36 semester hours. A minimum of 15 semester hours of 200-level course work is required.

The Graduate Record Examination (General Test) is not required for admission to the program.

Required:

Graduate music core:

Music Theory: 580:210; 580:211	6 hours
Music History and Musicology: 590:221	2 hours
One course from the following: 590:110; 590:111; 590:112; 590:114; 590:115	3 hours

Specialization:

Music Organizations and Ensembles: 530:1XX*	4 hours
(Only one hour of ensemble per semester will count toward degree requirements.)	
Applied Music: 540:221 or 540:222	12 hours
Performance Literature and Repertory: 595:131 or 595:140 or 595:142	3 hours
Recital: 540:289	0 hours
Music electives: as approved by advisor	<u>6</u> hours
	36 hours

*Large ensemble placement will be determined by audition.

Additional requirements:

1. Two consecutive semesters (fall/spring) of residency with full-time status (minimum of 9 graduate hours per semester).
2. Conducting recital.
3. Recital paper.
4. Conducting document (research paper).
5. Score reading:
 - A. Choral Conducting Majors -- Ability to read and perform at the keyboard (allowing some time for advance preparation) an SATB open score of medium difficulty

(e.g., Palestrina motet).

- B. Instrumental Conducting Majors -- Ability to read and interpret a moderately complex instrumental score.
- 6. Students are required to enroll in applied music in their performance area during the semester that they present their required recital.

169 MASTER OF MUSIC - MAJOR IN JAZZ PEDAGOGY (restatement of MA program)

--Revise to read:

This major is offered on the thesis/recital option only, and requires a minimum of 36 semester hours. A minimum of 15 semester hours of 200-level course work is required.

The Graduate Record Examination (General Test) is not required for admission to the program.

Required:

Graduate music core:

Music Theory: 580:210; 580:211	6 hours
Music History and Musicology: 590:221	2 hours
One course from the following: 590:110; 590:111; 590:112; 590:114; 590:115	3 hours

Specialization:

Music Techniques: 560:152 or 560:252*; 570:252	4 hours
Music Theory: 580:127; 580:128; 580:132	5 hours
Music Organizations and Ensembles: 530:116 (2 hrs. in Jazz ensembles participation required each semester of residence)	8 hours

Research: 560:299 3 hours

Music electives 5 hours

To be selected from the following:

Applied Music: 540:140; 540:153; 540:156; 540:157	
Music Techniques: 560:130 preferred	
Music History and Musicology: 590:160 preferred.	
Recital: 540:289	<u>0</u> hours

TOTAL 36 hours

*Strongly recommended

Additional requirements:

1. Jazz performance recital.
2. Recital paper.
3. Jazz bass proficiency.
4. Jazz piano proficiency.
5. Jazz drum set proficiency.

Total number of hours remains the same.

170 MASTER OF MUSIC - MAJOR IN MUSIC EDUCATION (restatement of MA program)

--Revise to read:

This major is available on the thesis and non-thesis options. A minimum of 32 semester hours is required. A minimum of 15 semester hours of 200-level course work is required for the thesis option and a minimum of 12 semester hours of 200-level course work is required for the non-thesis option.

The Graduate Record Examination (General Test) is not required for admission to the program.

Required:

Graduate music core:

Music Theory: 580:210; 580:211 6 hours
 Music History and Musicology: 590:221. 2 hours
 One course from the following: 590:110; 590:111;
 590:112; 590:114; 590:115 3 hours

Music Education core:

Research in Music Education: 570:221; 570:299. . . 6 hours
 Foundations of Music Education: 570:230 3 hours
 School Music Administration and Management: 570:255. 3 hours
 Learning Theories: 570:282 3 hours
 Music Education and Methods: 595:131, 595:140,
 595:141, or 570:145 3 hours

Music Education Electives (choose from following*):

570:287, 560:122, 560:121, 570:130, 560:135,
 580:127, 560:152, 540:1xxg(1-4), 570:197, 570:153,
 590:151, 570:175, 570:179, 590:151 3 hours
 32 hours

Thesis Option contingent on availability of faculty:

Required:

Research: 570:299 (in lieu of 3 hours of electives)

*Electives as approved by the music education faculty.

Note: A maximum of 2 hours of ensembles (530:xxx) and 4 hours of applied music (540:xxx) may be counted toward fulfilling minimum degree requirements.

Total number of hours decreases from 34-36 to 32 hours.

171 MASTER OF MUSIC - MAJOR IN PERFORMANCE (restatement of MA program)

--Revise to read:

This major is offered on the thesis/recital option only, and requires a minimum of 36 semester hours. A minimum of 15 semester hours of 200-level course work is required of all majors enrolled for the thesis/recital option.

The Graduate Record Examination (General Test) is not required for admission to the program.

Required:

Graduate music core:

Music Theory: 580:210; 580:211. 6 hours
 Music History and Musicology: 590:221 2 hours

One course from the following: 590:110; 590:111; 590:112; 590:114; 590:115	3 hours
Recital: 540:289	0 hours
Specialization: (Choose A or B)	<u>21-25</u> hours
	32-36 hours

Specialization

A. Wind, Percussion, Keyboard or Strings Major	
Music Ensemble: 530:1xx(g)***	2-4 hours
Applied Music: 540:2xx (variable)	10 hours
Performance Literature and Repertory*: 595:120.	2-4 hours
Music electives: primarily in the areas of music theory and music literature	<u>5-7</u> hours
	21-23 hours
B: Voice Major	
Choral Ensemble: 530:110 and 530:119***	2 hours
Applied Music: 540:249 (variable)	8 hours
Opera Performance: 560:161.	2 hours
Vocal Coaching: 560:145	2 hours
Performance Literature and Repertory: 595:120** (section 8, 9, 10, or 12)	4 hours
Group Vocal Practicum: 540:223.	4 hours
Singing in Italian: 560:155	1 hour
Vocal Pedagogy: 570:130	<u>2</u> hours
	25 hours

*Keyboard majors are required to take 595:120 sections 03 and 04.
**595:120 section 08 is required if vocal literature has not been taken at the undergraduate level.

*** Students in the Voice Major must take one semester of either Chamber Singers or Concert Chorale (to be determined upon formal audition for the choral conducting staff), and one semester of Opera Performance Ensemble. Instrumental majors will choose Jazz Band I, Symphony Orchestra, Symphonic Band, or Wind Symphony, but only 2 hours of Jazz Band I may be counted toward minimum degree requirements. string majors are required to complete 4 hours of ensemble 530;117(g) Symphony Orchestra. Chamber Music and/or accompanying may be elected by keyboard majors.

Additional requirements:

- Two consecutive semesters (fall/spring) of residency with full-time status (minimum of 9 graduate hours per semester).
- Performance recital.
- Recital paper.
- Two successful applied jury examinations (grades A or B).
- Voice majors must:
 - Demonstrate diction proficiency (by diagnostic examination) in English, Italian, German, and French at the level of Diction II (560:031). Otherwise one must successfully complete 560:030 and/or 560:031.
 - Have successfully completed one semester of college-level study in two of the following languages: Italian, German, or French prior to entering UNI. Otherwise one must fulfill this requirement during the residency at UNI.
- Students are required to enroll in applied music in their performance area during the semester they present their

recital.

Total number of hours remains the same.

116 PERFORMANCE MAJOR (restatement of major)

--Revise to read:

Track A (Instrumental)

Required:

Music, Organizations and Ensembles (530:xxx)	8 hours
Applied Music (540:xxx) including at least 12 hours of 100-level work in the major area.	22 hours
Music Techniques 560:017; 560:021; 560:130	7 hours
Music Pedagogy: 570:138 (instrumental majors) or 570:148 (keyboard majors)	2 hours
Music Theory: 580:011; 580:012; 580:013; 580:014; 580:015; 580:016; 580:017; 580:018; 580:025; 580:026; 580:027; 580:028; 580:110; 580:1xx	21 hours
Music History and Musicology/Performance Literature and Repertory: 590:005; 590:010; 590:011; 595:120; 590:1xx; and/or 595:1xx	13 hours
Electives: 540:xxx (maximum of 4 hrs.); 560:xxx; 570:xxx; 580:xxx; 590:xxx; 595:xxx only	<u>7</u> hours
	80 hours

Track B (Vocal)

Required:

Music, Organizations and Ensembles (530:xxx)	8 hours
Applied Music (540:xxx) including at least 12 hours of 100-level work in the major area	22 hours
Music Techniques 560:018; 560:030; 560:031; 560:060; 560:130; 560:161	10 hours
Music Pedagogy: 570:130	2 hours
Music Theory: 580:011; 580:012; 580:013; 580:014; 580:015; 580:016; 580:017; 580:018; 580:025; 580:026; 580:027; 580:028; 580:110	18 hours
Music History and Musicology/Performance Literature and Repertory: 590:005; 590:010; 590:011; 595:120; 590:1xx; and/or 595:1xx	13 hours
Electives: 540:xxx (maximum of 4 hrs.); 560:xxx; 570:xxx; 580:xxx; 590:xxx; 595:xxx only	<u>7</u> hours
	80 hours

Additional Requirements (both tracks):

1. Junior recital (half recital).
2. Senior recital (full recital).
3. Voice majors are required to complete two Language and Culture I courses (3 hrs. each-UNI) and two Communication Practice I courses (2 hrs. each-UNI) from the following foreign languages listed in order of preference: Italian, German, French; and are strongly recommended to take Performance Literature for Voice II, 595:120.

Note: Performance majors who desire teaching licensure can complete the music methods requirements under the Music Education Major (pages 115-116) and the Professional Education Requirements (page 46).

Total number of hours remains the same.

114 GENERAL REQUIREMENTS FOR UNDERGRADUATE MAJORS

--Revise to read:

First six paragraphs remain the same.

Large Ensembles:

First paragraph - no change.

- Wind and percussion students will be assigned to an appropriate instrumental ensemble. All wind and percussion students who are pursuing the degree of Bachelor of Music in Music Education are required to participate in marching band for a minimum of two semesters. (It is strongly recommended that this requirement be fulfilled during the freshman and sophomore years.)

Last four paragraphs remain the same.

115 BACHELOR OF ARTS DEGREE PROGRAMS

Change in program descriptive information

--Revise to read:

After the two music minor programs are described (Jazz Studies Minor and Music Minor), there is a short statement that says "Departmental audition requirements apply to this minor."

The statement should say Departmental audition requirements apply to both of these minors.

PHILOSOPHY AND RELIGION

- 640:140 New Course. Black Liberation and the Black Church -- 3 hrs.
Explores black liberation in America through advancing the understanding of black nationalism, the black church, and black liberation theology from a historical and social/political perspective. Some knowledge of African American culture and thought recommended. Prerequisites: None.
- 640:158g New Course. Why We Believe -- 3 hrs.
What do witches, monsters, and gods have in common? This course draws on psychology to explore children's imaginative play and responses to fairy tales to understand how we develop our capacity for religious belief. Prerequisites: Junior standing or consent of instructor.
- 650:160g New Course. Phenomenology and Foucault -- 3 hrs.
Examination of phenomenology, the description of basic structures of human experience. Focuses on Martin Heidegger and others on conscious, practical, social, mortal, and embodied life; then Michel Foucault on forms of power in social science and modern culture. Prerequisites: Junior standing or permission of instructor.
- 650:164g New Course. Nietzsche, Nihilism, and the "Overcoming" of Western Metaphysics -- 3 hrs.
Examines Nietzsche's genealogy, diagnosis, and prognosis of contemporary nihilism - the experience of one's values as empty or meaningless. Also examines Heidegger's later critique of Nietzsche's views as expressions of problematic aspects of the modern technological age. Prerequisites: Junior standing or permission of instructor.
- 650:166g New Course. Philosophy of Language: Wittgenstein -- 3 hrs.
Examination of Wittgenstein, sometimes called "the two most important philosophers" of the 20th century. Topics include language and formal logic, language as social practice, and ways in which classic philosophical problems arise from a misunderstanding of how we use common words. Prerequisites: Junior standing or permission of instructor.
- 248 640:132 Change title and description. Title from (Confucianism, Taoism, and Zen) to "Confucianism, Daoism, and Zen." Description: Daoism, Confucianism, Buddhism, Shintoism. (Offered odd Falls).
- Online 650:105g Change title and description. Title from (Marxism) to "Marxisms." Description: Marxism as a critical method to examine social, political, and economic issues. Includes classic works of Marx and Engels, varieties of socialism and communism, 60s New Left, socialist feminism, liberation theology, third world liberation and anti- globalization movements.
- 117 MAJOR IN THE STUDY OF RELIGION (restatement of major)

--Revise to read:

Required: at least 6 hours from each of the following categories:

Textual and Analytic Studies of Religion: 640:030; 640:110; 640/650:113; 640:126; 640:141; 640:142; 640:154	6 hours
Historical and Cultural Studies of Religion: 640:130; 640:132; 640:134; 640:136; 640:158	6 hours
Social and Ethical Studies in Religion: 640:115; 640:138; 640/650:152; 640:162; 640:165; 640:168; 640:171; 640:140	6 hours
Electives in religion (not more than two from 640/650:173; 640/650:174; 640/650:175; 640/650:197; 640/650:250)	<u>18</u> hours
Total	36 hours

Total number of hours remains the same.

116 PHILOSOPHY MAJOR (restatement of major)

--Revise to read:

Required:

Philosophy: 650:045; 650:142; 650:150	9 hours
At least three of the following: 650:100; 650:101; 650:103; 650:104	9-12 hours
Electives from the following: 650:021; 650:105; 640/650:113; 650:119; 650:143; 640/650:152; 650:153; 650:172; 650:164; 650:160; 650:166; 640/650:250	9-12 hours
Additional electives in philosophy	<u>6</u> hours
	36 hours

Total number of hours remains the same.

Catalog

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THEATRE

- 490:011 New Course. Creativity and Performance Lab -- 1 hr.
This course will provide unning crew assignments for all productions in a given semester. It will require an extensive evening commitment and must be taken with Creativity and Performance. Prerequisite: Concurrent registration in 490:010.
- 490:016 New Course. Stagecraft: Costumes -- 3 hrs.
Introduction to costume planning, research and construction for theatrical productions. Involves work in the Strayer-Wood Theatre Costume Studio on Theatre UNI mainstage season plays. Discussion 3 periods, lab 3 periods. Lab fee.
- 490:109 New Course. Methods of Teaching Drama and Theatre -- 3 hrs.
Introduction, exploration and application of various methods for teaching and assessing drama and theatre practices and learning in K-12 venues. Prerequisites: 490:010, 490:011 OR 490:024 OR 490:101.
- 490:128 New Course. Advanced Voice and Movement -- 3 hrs.
A continuation of voice and movement pedagogy in order to facilitate character development. Other topics covered include IPA, dialects, period style work and research. Prerequisite: THEA 490:123 or consent of the instructor. Prerequisites: Declaration of Area Emphasis; 490:121; 490:122.
- 490:170 New Course. Senior Project -- 3 hrs.
Departmentally approved culminating "capstone" experience in theatre that provides students with opportunity to devise, implement and critique a major project of their own design in the areas of performance, design and production, youth theatre/theatre education, history, directing and/or criticism, on campus or off. Prerequisites: Area Emphasis declared; 2.5 GPA; project approval by department.
- 232 490:001 Drop Course. Acting I -- 3 hrs.
- Online 490:010 Change title, hours, and description. Title from (Fundamentals of the Theatre Experience) to "Creativity and Performance." Hours from 4 to 3. Description: A collaborative approach to the exploration and development of the creative impulse, processes and results in the theatre. Team- taught. Production participation required, lab taken concurrently. Lab fee.
- Online 490:015 Change title and description. Title from (Stagecraft) to "Stagecraft: Scenery/Lights." Description: Introduction to scenery and lighting planning, research and construction for theatrical production. Involves work in the Strayer-Wood Theatre Scenery Studio on Theatre UNI mainstage season plays. Discussion: 3 periods, lab: 3 periods. Lab fee.
- Online 490:024 Change title, hours, description, and prerequisites. Title from (Acting II) to "Acting." Hours from 2 to 3. Description:

Introduction to the craft of acting beginning with exercises and culminating in applying the experience of those exercises to a scene from a play. Exploration of increasing self-awareness. Discussion 3 periods, lab 3 periods. Prerequisites: 490:010, 490:011 for Theatre majors.

- 232 490:027 Change hours, description, and prerequisites (Audition Techniques). Hours from 1 to 3. Description: Selection, preparation, and performance of appropriate audition materials and development of proper audition behavior for the actor. Exploration of graduate schools and acting as a business. Discussion 3 periods, Lab 3 periods. Prerequisites: 490:010; 490:011; 490:024 or consent of instructor.
- Online 490:040 Change title, description, and prerequisites. Title from (Drawing and Rendering for the Theatre) to "Design Elements for Theatre." Description: Introduction to the language of design as applied to theatre. Course explores studio applications of the elements and principles of design to theatre-specific rendering techniques and design projects. Discussion, 3 hours; Lab, 3 hours. Prerequisite: 490:010; 490:011 for majors; consent of instructor for others.
- Online 490:050 Change title, description, and prerequisites. Title from (Theatre Practicum I) to "Theatre Practicum." Description: Credit for approved work in theatre production (e.g., construction crew, performance, crew head, stage manager). Three required (one may be in performance). (Offered Fall and Spring). Prerequisites: 490:010; 490:011.
- 232 490:054 Drop Course. Production Studies -- 3 hrs.
- Online 490:056 Change title and prerequisites. Title from (Collaborative Process) to "Devised Theatre." Prerequisites: 490:010; 490:011; Declaration of an Area Emphasis or permission of the department.
- 232 490:102 Drop Course. Creative Drama Practicum -- 3 hrs.
- 232 490:108 Drop Course. Methods of Teaching Theatre in High School -- 2 hrs.
- Online 490:122 Change hours, description, and prerequisites (Vocal Production for the Actor). Hours from 2 to 3. Description: Using relaxation and breathing techniques developed by voice practitioners, students will release tension and identify vocal habits which impede the acting process. Vocal precision and power, IPA and anatomy are also covered. Discussion, 3 periods; lab, 3 periods. Prerequisite: 490:010; 490:011; declaration of Area Emphasis; 490:121.
- 232 490:123 Drop Course. Speech for the Actor -- 2 hrs.
- 233 490:125 Drop Course. Movement and Voice Studio -- 1 hr.

Online 490:127g Change description and prerequisites (Acting Studio).
 Description: Reinforces craft skills and focuses on individual problems through prescriptive scene work and exercises. Performance Area Emphasis students must take this course twice. May be repeated up to three times for credit. Discussion 3 periods, lab 3 periods. Prerequisites: 490:010; 490:011; 490:024; and consent of the instructor.

233 490:150 Drop Course. Theatre Practicum II -- 1 hr.

128 COMMUNICATION- THEATRE MAJOR- TEACHING (restatement of major)

--Revise to read:

The teaching major in Communication Studie and Theatre is offered jointly by the Departments of Communication Studies and Theatre.

Required:

Communication: 48C:001; 48C:004; 48C:011; 48C:015;
 48C:024; 48C:031; 48C:071; 48C:074; 48C:141;
 48C:187; 48C:188 31 hours
 Theatre: 490:015; 490:024; 490:034 (these three courses may be taken in any sequence; all are prerequisites for 490:161); 490:109; 490:161 . . 15 hours
 Applied Activity Option: one hour from:
 48C:091/48C:191 or 48C:093/48C:193 or 490:050. . 1 hour
 Electives: (3 hours from the following). 3 hours
 Communication: 48C:108 or 48C:110; 48C:122;
 48C:124; 48C:126; 48C:144; 48C:174; 48C:176; 48C:178
 Theatre: 490:040; 490:060; 490:061; other courses are available, consult with your advisor.
 50 hours

Total number of hours increases from 49 to 50 hours.

128 COMMUNICATION- THEATRE MINOR- TEACHING (restatement of minor)

--Revise to read:

This teaching minor in Communication and Theatre is offered jointly by the Departments of Communication Studies and Theatre.

Required:

Communication: 48C:001; 48C:004; 48C:011; 48C:024;
 48C:074; 48C:187 18 hours
 Option A or B 10-12 hours
 28-30 hours

Option A: Communication (10 hours)

Communication: one hour from 48C:091/48C:191 or 48C:093/48C:193; 48C:015; 48C:071.
 Theatre: 490:101 or 490:106.

Option B: Theatre (12 hours)

Theatre: 490:015; 490:024; 490:034; (these three classes must be taken before 490:161); 490:161.

Total number of hours remains the same.

127 THEATRE MAJOR (restatement of major)

--Revise to read:

(College of Humanities and Fine Arts)
www.uni.edu/theatre

Staff

E. Lange, Head. G. Berghammer, C. Colburn, L. Curtis, J. Edelnant, R. Glockner, C. Goatley, S. Nice, A. RohrBerg.

Majors

Students may indicate their interest in majoring in theatre any time after their admission to UNI. Formal indication of interest will be made via the Declaration of Curriculum form at which time the student will be considered a "pre-major" and will be assigned a "pre-major advisor." (For freshmen, this will be a freshman advisor.) A student's freshman year will be devoted primarily to course work in the Liberal Arts Core and Creativity and Performance (with lab) and Stagecraft: Scenery/Lights or Stagecraft: Costumes. Major course work will be limited to courses as recommended by her/his freshman advisor and program policy. The following criteria will be used for determination of admission: a) 2.50 cumulative GPA in at least 24 hours of course work (to include 48C:001, 490:010, 490:011, and 620:005 or 620:015 or 620:034). b) 2.50 average GPA in the major. c) Upon satisfaction of the admission requirements (a and b above), a student will be converted to major status after the student files a Declaration of Curriculum which will then be processed and the student assigned a major advisor. The student will be notified of her/his admission. d) Students admitted to a major will be able to continue course work toward their major. e) Students unable to satisfy the admission requirements and consequently denied admission will be notified in writing. f) Students denied admission to a major will not be allowed to pursue major course work except in cases where vacancies exist after all majors have registered. These students may use waiting lists as a means to gain access to courses. Students will be assigned interim advisors until admission requirements are met. g) Students must maintain a minimum cumulative GPA of 2.50 in order to be eligible to participate in productions or enroll in practicum coursework.

Transfer students entering UNI with an Associate Arts (A.A.) degree will be admitted to a major status if their cumulative GPA is 2.50 or better and upon the condition that the requirements of 48C:001 (Oral Communication), 620:005/620:015/620:034, and 490:010 (Creativity and Performance) were satisfied at their junior/community colleges. Transfer students will take 490:010 (Creativity and Performance) and 490:011 (Creativity and Performance Lab) during their first semester at UNI as part of the transfer orientation process. Transfer students entering UNI without an A.A. degree will be subject to the admissions standards requirements of students beginning their higher education studies at UNI, i.e. #3.

Minors

1. Admission to a Theatre minor requires a 2.50 cumulative GPA in at least 24 hours of course work (to include

48C:001, 490:010, 490:011 and 620:005 or 620:015 or 620:034).

Bachelor of Arts Degree Programs

120 semester hours (Liberal Arts)

130 semester hours (Teaching)

Theatre Major

Required:

Theatre Core (25 hours):

Theatre: 490:010; 490:011; 490:015; 490:016;

490:024; 490:034; 490:050 (3 required-one may

be in performance); 490:060; 490:061. 25 hours

9 hours from any of the focus areas listed below. 9 hours

34 hours

Students may choose to complete the Level One Reading List Comprehensive Exam to be eligible to declare an Area Emphasis (Performance, Design and Production, Drama and Theatre for Youth). Students who do not successfully complete the test or who opt not to take it are limited to completing the General Theatre degree only.

General (9 hours):

9 hours from preliminary Area Emphasis coursework which could include 3 hours of 490:040, 490:101, 490:127, 490:129, 490:151, 490:155, 490:157, 490:168.

Substitutions only by departmental consent.

Area Emphases: Students who declare an area emphasis must complete the Level Two Reading List Comprehensive Exam by the end of their senior year in order to fulfill the requirements of the Area Emphasis. Failure to successfully complete the exam will cause the student to revert to the General Theatre degree.

Area Emphasis Core (6 hours):

Six hours of Area Emphasis Core electives selected from the following list: 490:056; 490:160; 490:161; 490:168; Study abroad programs/internship; 490:170.

Performance Emphasis (15 hours):

490:121; 490:122; 490:127 (2 required); 490:126.

Design and Production Emphasis (15 hours):

490:040; 490:140 (2 required); 490:141; 490:142; 490:143; 490:151 (1 hr.)

Drama and Theatre for Youth Emphasis (15 hours):

490:101; 490:104; 490:106; 490:109;

3 hours of elective outside the department chosen in consultation with advisor.

Total number of hours decreases from 39 to 34 hours.

--Revise to read:

Required:

Theatre core:

490:010; 490:011; 490:015 or 490:016; 490:050

(2 required) (one may be in performance); 490:024;

490:034 15 hours

A minimum of 9 credit hours in theatre as approved

by the department 9 hours

24 hours

Total number of hours increases from 21 to 24 hours.

BIOLOGY

- 840:105g New Course. Wildlife Ecology and Management -- 4 hrs.
Ecologically based principles of managing populations of game and nongame wildlife. Includes scientific theory and sociopolitical perspectives of management. Discussion, 3 periods; lab, 3 periods. Prerequisites: 840:140; 840:168; junior standing.
- 840:119 New Course. Introduction to Biotechnology -- 3 hrs.
The course will highlight applications of biotechnology to improve human life and the environment. Applications in gene therapy, vaccine development, and environmental clean up will be discussed. Legal, ethical, and moral debates surrounding biotechnology and biotechnology regulations will also be addressed. Discussion, 3 periods. Prerequisites: 840:051; 840:052; 860:044 and 860:048, or 860:070.
- 840:121g New Course. Plant Biotechnology -- 3 hrs.
The course will highlight the theory and applications of plant tissue cultures, genetic engineering (including use of plants for production of antibodies and vaccines), marker-assisted selection, and genomics. The lab component will give students practical experience with the biotechnology applications discussed in lecture. Discussion, 2 periods; lab, 2 periods. Prerequisites: 840:140; junior standing.
- 840:127g New Course. Bioinformatics Applications for Biology -- 3 hrs.
An introduction to computer based analyses and management applications for molecular biological data. Topics will include bioinformatics history, instrumentation, PC applications, resources, data bases and discussions of genomics and proteomics applications. Discussion, 3 periods. Prerequisites: 840:130; 840:140; junior standing.
- 840:129g New Course. Genomics and Proteomics -- 3 hrs.
The course will highlight advances in genome and protein sequencing, sequencing strategies, interpretation of sequence data, database mining, sequence information for drug development, analysing gene and protein expressions using DNA and protein chips, and bioethical issues surrounding genomics. Discussion, 2 periods; lab, 2 periods. Prerequisites: 840:128; 860:063 or 860:120; 840:130 or 860:154; junior standing.
- 840:280 New Course. Advanced Analytical Techniques -- 3 hrs.
Discusses advanced modern methods of biological data collection and analysis, including the use of computer algorithms to help understand experimental results obtained from laboratory or field. Lecture/Discussion, 3 periods. Prerequisite: Consent of instructor.
- 265 840:012 Change description (Life: The Natural World).
Description: Examines living organisms with an emphasis on how the natural world functions as a system and how plants and

animals, including humans, interact. Declared Biology majors cannot receive either university or elective credit for this course.

- 265 840:013 Change description (Life: The Natural World - Lab). Description: Activities illustrating the importance, origins, and maintenance of biodiversity with a focus on the interactions among organisms and between organisms and the environment. Declared Biology majors cannot receive either university or elective credit for this course.
- 265 840:014 Change description (Life: Continuity and Change). Description: Introduction to contemporary topics in biology. Emphasis on study of gene structure and function and applications of biology to human concerns. Declared Biology majors cannot receive either University or elective credit for this course.
- 265 840:015 Change description (Life: Continuity and Change - Lab). Description: Process of science and application of biology to human concerns stressed through student activities involving basic life science concepts encompassing cell structure and function, human genetics, and disease transmission. Emphasis on assisting student in understanding role of biology in our present society. Lab, 2 periods. Declared Biology majors cannot receive either university or elective credit for this course.
- 266 840:103 Change prerequisites (Applied Ecology and Conservation). Prerequisites: 840:051; 840:052; 860:044 and 860:048, or 860:070.
- 266 840:106 Change prerequisites (Vertebrate Anatomy). Prerequisites: 840:051; 840:052; 860:044 and 860:048, or 860:070.
- 266 840:120 Change hours and description (Plant Diversity and Evolution). Hours from 3 to 4. Description: Form and function in vegetative and reproductive organs in all plant divisions, from algae to flowering plants, and their importance in evolutionary thought and plant classification. Lecture, 3 periods; lab, 2 periods.
- 266 840:130 Change title. Title from (Molecular Biology of the Cell) to "Molecular Biology."
- 268 840:180g Change title, hours, description, and prerequisites. Title from (Restoration and Management of Natural Lands) to "Restoration Ecology." Hours from 3 to 4. Description: Ecological principles applied to restoration of degraded terrestrial and freshwater ecosystems. Topics include fire, soils, hydrology, biological invasion. Discussion, 3 periods; lab, 3 periods; arranged field trips. Prerequisites: 840:140; 840:168; junior standing.

PROFESSIONAL SCIENCE MASTER IN BIOTECHNOLOGY (new PSM program)

This degree prepares students for career opportunities in biotechnology-

related businesses and industries. Emphasis is placed on blending molecular and genetic engineering skills with an understanding of business and includes an internship experience. Admission is restricted to students with a G.P.A. of 3.0 or higher and a B.A. or B.S. in Biotechnology, Biology, Biochemistry or a related discipline. To be admitted students must also have taken the following courses or their equivalents: Molecular Biology of the Cell (840:130) or Microbial Molecular Genetics (840:152); and Genetics (840:140). The above courses have prerequisites of General Biology: Organismal Diversity (840:051) and General Biology: Cell Structure and Function (840:052).

Required:

200 Level Courses	6 hours
840:240 Advanced Cellular & Molecular Biology	
840:280 Advanced Analytical Techniques	
820:209 Business Management for Science Professionals.	3 hours
820:215 Corporate/Industrial Problem Solving	3 hours
820:289 Professional Science Master's Seminar. . . .	2 hours
820:295 Professional Science Master's Internship . .	4-6 hours
Electives	10-12 hours

Students having completed all courses in the First Tier or their equivalent may select electives from the Second tier.

First Tier

- 840:121g Plant Biotechnology (3)
- 840:127g Bioinformatics Applications (3)
- 840:129g Genomics and Proteomics (3)
- 840:153g Recombinant DNA Techniques (4)
- 860:154g Biochemistry I (4)

Second Tier

- 840:128g Cell Biology (4)
- 840:146g Developmental Biology of Animals (4)
- 840:150g Immunology (4)
- 840:157g Biostatistics (3)
- 860:155g Biochemistry II (2)
- 860:156g Biochemistry Laboratory (2)

Total 30 hours

PROFESSIONAL SCIENCE MASTER IN ECOSYSTEM MANAGEMENT (new PSM program)

This degree prepares students for career opportunities in conservation and restoration-related businesses, industries and government agencies. Emphasis is placed on blending ecosystem analysis, management and restoration skills with an understanding of business and other organizational environments, and includes an internship experience. Admission is restricted to students with a G.P.A. of 3.0 or higher and a B.A. or B.S. in Biology, Ecology, or related field. Majors in Agriculture, Geography and other related applied disciplines must take the General Biology sequence (840:051 Organismal Diversity, 840:052 Cell

Structure and Function, and 840:140 Genetics) or equivalents to be considered. To be admitted students must also have had Plant Systematics (840:166g) and either Ecology (840:168) plus Ecology Lab (840:169) or Applied Ecology and Conservation (840:103), or equivalent.

Required:

200 level courses	6 hours
840:260 Advanced Ecology	
840:280 Advanced Analytical Techniques	
820:209 Business Management for Science Professionals.	3 hours
820:215 Corporate/Industrial Problem Solving	3 hours
820:289 Professional Science Master's Seminar. . . .	2 hours
820:295 Professional Science Master's Internship . .	4 hours
840:180g	4 hours
Electives	8 hours

Students having completed all courses in the First Tier or their equivalent may select electives from the second tier.

First Tier

- 840:105g Wildlife Ecology and Management (4)
- 840:154g Aquatic Ecology (3)
- 840:157g Biostatistics (3) or
- 800:121g Applied Stat Methods for Res. (3)
- 840:167g Conservation Biology (3)
- 840:178g Fire Management in Ecosystems (3)

Second Tier

- 840:131g Animal Behavior (4)
- 840:155g Ecotoxicology (4)
- 840:162g Ornithology (4)
- 840:164g Mammalogy (4)
- 870:141g Geomorphology (3)
- 970:126g Geography of Soils (3)
- 970:129g Rivers (3)
- 970:163g Aerial Photo Interpretation (3)
- 970:174g Geographic Information Systems II (3)
- 970:175g Global Positioning Systems (3)

Total 30 hours

69 **BIOLOGY MAJOR: BIOMEDICAL EMPHASIS (restatement of emphasis)**

--Revise to read:

This major offers basic preparation to student for allopathic, osteopathic, chiropractic, physical therapy, dental, veterinary, optometric, podiatric and other health-related programs. In addition, it prepares students for graduate study in biomedical sciences, e.g., pharmacology, toxicology, pathology, physiology, cellular biology and related areas. Students should seek advice and information early in their programs so that individual goals and specific additional requirements of some graduate and professional programs can be considered in curricular planning.

Required:*

Biology core:

Introductory track: 840:051; 840:052; 840:140** . . 12 hours
Group I: select one option 4 hours
Group II: select one option3-4 hours
Group III: select one option3-4 hours

Cognate courses:

Mathematics: 800:046 or 800:060 or 800:044 and
800:0564-5 hours
Chemistry: 860:044 and 860:048***; 860:120;
860:121; 860:123 16 hours
Physics: 880:054; 880:056 8 hours

Electives selected from the following

(consult with advisor):5-8 hours
Biology#: 840:106; 840:114; 840:119; 840:124;
840:128; 840:130; 840:132; 840:138; 840:142 or
840:148; 840:144; 840:146; 840:147; 840:149;
840:150; 840:151; 840:152; 840:157; 840:179;
840:185; 840:190; 840:198.
Chemistry: 860:154.

58 hours

*At least 7-8 hours of biology credit must be 100g-level.
**840:140 is not required as a prerequisite for 100-level courses.
***Students with excellent preparation in chemistry may substitute
860:070 plus 3 additional credit hours of biology electives for 860:044
and 860:048.
#Not more than four (4) semester hours of credit from 840:179, 840:185,
840:190 and 840:198 will be accepted for biology elective credit.

Total number of hours remains the same.

69 BIOLOGY MAJOR: ECOLOGY AND SYSTEMATICS EMPHASIS (restatement of emphasis)

--Revise to read:

This emphasis provides training to students interested in organismal and/or ecological biology. With the guidance of a faculty advisor, students who wish to specialize further may follow one of four separate tracks: Ecology, Applied Ecology, Botany, or Zoology. This emphasis is appropriate for students interested in a career with private and governmental organizations conducting endangered species recovery, ecological restoration, biological surveys, toxicity evaluations, environmental impact analyses, field research, museum or herbarium curation, or who wish to work in zoos, nature centers, museums, or botanical gardens. This emphasis also provides suitable background for students wishing to pursue graduate degrees in ecology, animal behavior, systematics, conservation biology, environmental toxicology, population biology, and evolutionary biology. Students who want information about these careers may take 840:060. A program of field courses offered during the summer is available through Iowa Lakeside Laboratory.

Required:*

Biology core:

Introductory track: 840:051; 840:052; 840:140** . . 12 hours

Group I: 840:114 and 840:115; or 840:122; or
 840:137 and 840:138; or 840:172 4 hours
 Group II: 840:168 3 hours
 Group III: select two of the following: 840:112;
 840:120; 840:160; 840:162; 840:164; 840:166;
 840:170 7-8 hours
 Biology: 840:169 1 hour
 Cognate courses:
 Mathematics: 800:046 or 800:060 or 800:044 and
 800:056 4-5 hours
 Chemistry: 860:044 and 860:048***; 860:063 or
 both 860:120 and 860:121 12-13 hours
 Physical Science: 870:031 or 880:054 4 hours
 Electives in biology#: (100-level approved by department##,
 excluding 840:184) 12-15 hours
 62 hours

*At least 7-8 hours of biology credit must be 100g-level.
 **840:140 is not required as a prerequisite for 100-level courses.
 ***Students with excellent preparation in chemistry may substitute
 860:070 plus 3 additional credit hours of biology electives for 860:044
 and 860:048.
 #Not more than four (4) semester hours of credit from 840:179, 840:185,
 840:190 and 840:198 will be accepted for biology elective credit.
 ##If 840:180 is taken to satisfy a requirement of the Natural History
 Interpretation Minor, it cannot be used for credit on this emphasis as
 well.

Total number of hours remains the same.

69

BIOLOGY MAJOR: MICROBIOLOGY EMPHASIS (restatement of emphasis)

--Revise to read:

This emphasis provides a broad overview of microbiology, including
 virology, molecular biology, and general microbiology. It is excellent
 preparation for careers in microbiology in the health sciences or
 industry and for graduate training in microbiology and related fields.

Required:*

Biology Core:

Introductory track: 840:051; 840:052; 840:140** . . . 12 hours
 Group I: 840:151 4 hours
 Group II: select one option 3-4 hours
 Group III: select one option 3-4 hours
 Biology: 840:152 4 hours

Cognate courses:

Mathematics: 800:046 or 800:060 or 800:044 and
 800:056 4-5 hours
 Chemistry: 860:044 and 860:048***; 860:063 or
 860:120; 860:121 and 860:123 12-16 hours
 Physics: 880:054 4 hours

Electives: selected from the following

(consult with advisor) 5-12 hours
 Biology#: 840:119; 840:128; 840:130; 840:132;

840:144; 840:147; 840:149; 840:150; 840:179;
840:185; 840:190; 840:198.
Chemistry: 860:154.
Physics: 880:056.

58 hours

*At least 7-8 hours of biology credit must be 100g-level.
**840:140 is not required as a prerequisite for 100-level courses.
***Students with excellent preparation in chemistry may substitute 860:070 plus 3 additional credit hours of biology electives for 860:044 and 860:048.
#Not more than four (4) semester hours of credit from 840:179, 840:185, 840:190 and 840:198 will be accepted for biology elective credit.

Total number of hours remains the same.

70 BIOLOGY MAJOR: PLANT BIOSCIENCE EMPHASIS (restatement of emphasis)

--Revise to read:

This emphasis provides training to students interested in plant bioscience. Students will be trained in the principles and techniques of traditional and molecular biology, tissue culture, and propagation methods. This emphasis is appropriate for students interested in crop improvement, nutritional enhancement, pharmaceutical production, genetic engineering, and plant-based biotechnology which contributes to a wide array of industrial and research applications. Employment opportunities are in agricultural research, food production, and in the pharmaceutical and manufacturing sectors. This emphasis also provides a strong background for students wishing to pursue graduate degrees in the plant biosciences, plant physiology, plant biotechnology, plant genetics, plant pathology and protection, plant developmental biology and others. Students who want information about these careers may take 840:060.

Required:*

Biology Core:

Introductory track: 840:051; 840:052; 840:140** . . . 12 hours
Group I: 840:122; 840:172 8 hours
Group II: 840:103 or 840:126 or 840:168 or
840:171 3-4 hours
Group III: 840:120 or 840:166 4 hours
Biology: Select one of the following: 840:112;
840:114 and 840:115; 840:160; 840:162; 840:164;
840:170; 840:171 3-4 hours

Cognate courses:

Mathematics: 800:046 or 800:060 or 800:044 and
800:056 4-5 hours
Chemistry: 860:044; 860:048***; 860:120; 860:123. . . 14 hours
Physics: 880:054 4 hours

Electives selected from the following 3-6 hours

Biology#: 840:103; 840:120; 840:121; 840:126;
840:128; 840:130; 840:142; 840:144; 840:151;
840:152; 840:153; 840:157; 840:166; 840:168;
840:170; 840:171.

Chemistry: 860:154.

58 hours

*At least 7-8 hours of biology credit must be 100g-level. Courses used to satisfy the required part of this emphasis cannot be used as biology electives.

**840:140 is not required as a prerequisite for 100-level courses.

***Students with excellent preparation in chemistry may substitute 860:070 plus 3 additional credit hours of biology electives for 860:044 and 860:048.

#Not more than four (4) semester hours of credit from 840:179, 840:185, 840:190 and 840:198 will be accepted for biology elective credit.

Total number of hours remains the same.

70

BIOTECHNOLOGY MAJOR (restatement of major)

--Revise to read:

This major is designed to provide educational training for employment in modern biotechnology fields in both the public and private sectors or for graduate school. Basic skills in recombinant DNA, genetics, microbiology, and biochemistry are emphasized.

Required:*

Biology core:

Introductory track: 840:051; 840:052; 840:140** . . . 12 hours
Group I: 840:151; 840:152 8 hours
Group II: select one option 3-4 hours
Group III: select one option 3-4 hours
Biology: 840:119; 840:121; 840:130; 840:153 . . . 13 hours

Cognate courses:

Chemistry: 860:044 and 860:048***; 860:120;
860:123 and 860:154 18 hours

Electives: selected from the following list

(approved by advisor) 3-5 hours
Biology#: 840:122; 840:127; 840:128; 840:129;
840:146; 840:150; 840:190
Chemistry: 860:121; 860:132; 860:155; 860:156.
Physics: 880:054; 880:056.

62 hours

*At least 7-8 hours of biology credit must be 100g-level.

**840:140 is not required as a prerequisite for 100-level courses.

***Students with excellent preparation in chemistry may substitute 860:070 plus 3 additional credit hours of biology electives for 860:044 and 860:048.

#Not more than four (4) semester hours of credit from 840:179, 840:185, 840:190 and 840:198 will be accepted for biology elective credit.

Total number of hours remains the same.

147

MASTER OF ARTS DEGREE: MAJOR IN BIOLOGY (restatement of MA degree)

--Revise to read:

Students interested in enrolling in the program must complete an application and be admitted to the program. Applications should include three recommendations, and transcripts of undergraduate and graduate credits.

Successful completion of a final written comprehensive examination is required.

This major is available on the non-thesis option only. A minimum of 36 semester hours is required, including a 3-credit-hour research paper. A minimum of 15 semester hours of 200-level course work is required. This program is flexible and designed to allow students, working with their advisory committee, to tailor a program to fit student interests and aspirations in biology.

Required courses:

200-level courses	9 hours
1 course in at least 3 of the 4 content areas (prerequisites vary)	
Biology: 840:202	4 hours
Biology: 840:292	1 hour
Research: 840:299	3 hours
Electives: (100g or above)	<u>19</u> hours
	36 hours

Content areas:

- I. 840:240 Advanced Cellular and Molecular Biology
- II. 840:250 Advanced Physiology and Development
- III. 840:260 Advanced Ecology
- IV. 840:270 Advanced Systematics and Evolutionary Biology

Total number of hours remains the same.

172 MASTER OF SCIENCE DEGREE: MAJOR IN BIOLOGY (restatement of MS degree)

--Revise to read:

This major is available for students seeking an extensive research experience. Students interested in enrolling in the program must complete an application and be admitted to the program. Applications should include three recommendations, and transcripts of undergraduate and graduate credits.

This major is available on the thesis option only. A minimum of 32 semester hours is required, including a minimum of 21 hours of course work and a minimum of 9 hours of thesis research. A minimum of 18 hours of 200-level course work is required for the thesis option.

Students are required to pass an oral comprehensive examination in defense of their final thesis.

This program is flexible and designed to allow students, working with their advisory committee, to tailor a program to fit student interests and aspirations in biology.

Required:

200-level courses (take one course in at least two of

the content areas listed below - prerequisites vary)	6 hours
Biology: 840:202	4 hours
Biology: 840:292	1 hour
Research: 840:299	9 hours
Electives: 100g or above (excluding 840:299)	<u>12</u> hours
	32 hours

Content areas:

- I. 840:240 Advanced Cellular and Molecular Biology
- II. 840:250 Advanced Physiology and Development
- III. 840:260 Advanced Ecology
- IV. 840:270 Advanced Systematics and Evolutionary Biology

Total number of hours remains the same.

71 NATURAL HISTORY INTERPRETATION MINOR (restatement of minor)

--Revise to read:

The Natural History Interpretation minor provides students with interpretive techniques and opportunities to gain practical experience with interpretation and environmental education program development. This minor, taken with the Biology Major: Ecology and Systematics Emphasis or the Earth Science Major: Interpretive Naturalist Emphasis, comprises the Natural History Interpretation program. This program prepares students for employment as interpreters with park systems, nature centers, zoos, museums, planetariums, and other areas requiring natural history communication skills.

Required:

Leisure, Youth and Human Services: 430:050 or 430:146 or 43T:170	3 hours
Biology: 840:084; 840:184; 840:196	8 hours
Biology: 840:195 OR Earth Science: 870:195	4-6 hours
Biology: 840:180* OR Anthropology: 990:125	<u>3-4</u> hours
	18-20 hours

*If 840:180 is taken to satisfy a requirement of the Natural History Interpretation Minor, it cannot also be used for credit on the Biology Major: Ecology and Systematics Emphasis.

Total number of hours remains the same.

68 Change in Introductory Statement - Biology

--Revise to read:

BIOLOGY CORE COURSES ARE TO BE SELECTED FROM LIST BELOW.

- Introductory track: 840:051; 840:052; 840:140.
- Group I (Cells and Systems): 840:114 and 840:115; 840:121*;
840:122*; 840:128; 840:137 and 840:138; 840:146; 840:151;
840:152; 840:172*.
- Group II (Ecology): 840:103; 840:126; 840:154; 840:168;
840:171.
- Group III (Systematics & Evolution): 840:106; 840:112;
840:120*; 840:131; 840:132; 840:142; 840:160; 840:162;

840:164; 840:166*; 840:170.

* At least one plant course must be taken from those marked with asterisk (*) in the core or from: 840:124; 840:173.

67 Change in department descriptive information

--Revise to read:

B. Hetrick, Head. **T. Abebe**, L. Beltz, **P. Berendzen**, V. Berg,
B. Bergquist, D. Brecheisen, E. Brown, M. Clayton, J. Demastes,
K. Dhanwada, J. Gerrath, L. Jackson, J. Jurgenson, C. Lee, M.
McDade, D. Mercer, S. O'Kane, W. Olson, **J. Ophus**, K. Pontasch,
O. Schwartz, R. Seager, D. Smith, T. Spradling, J. Tamplin, C.
Thurman, J. Trainer, M. Walter, J. Weld, D. Wiens.

CHEMISTRY

- 860:254 New Course. Advanced Biochemistry -- 3 hrs.
 Amino acid and nucleotide biosynthesis and degradation, signal transduction, or other advanced topics in biochemistry. May be repeated on different topics with consent of instructor. Discussion, 3 periods. Prerequisites: 860:154; 860:155. (Offered odd Falls).

PROFESSIONAL SCIENCE MASTER IN APPLIED CHEMISTRY AND BIOCHEMISTRY

This non-thesis degree, which prepares students for career opportunities in businesses utilizing chemical and/or biochemical processes and instrumentation, is open to students who have earned a bachelor's degree in chemistry or biochemistry. It combines chemistry coursework featuring advanced topics and hands-on use of modern instrumentation with business coursework focused on problem-solving and decision-making. Students interested in the program must submit to the Chemistry Department a complete application, three letters of recommendation, and transcripts of undergraduate and graduate work. The Graduate Record Examination (General Test) is not required for admission to the program.

Required:

- 200-Level Chemistry Courses (choice of two courses from this group) 6 hours
 860:210 Advanced Inorganic Chemistry (3 hours)
 860:220 Advanced Organic Chemistry (3 hours)
 860:241 Advanced Physical Chemistry (3 hours)
 860:242 Advanced Analytical Chemistry (3 hours)
 860:254 Advanced Biochemistry (3 hours)
 Science Courses 12 hours
 820:209 Business and Management for Science Professionals (3 hours)
 820:215 Corporate/Industrial Problem Solving (3 hours)
 820:289 Seminar (1 hour, taken twice)
 820:295 PSM Internship
 Electives 12 hours
 840:129g Genomics and Proteomics (3 hours)
 840:280 Advanced Analytical Techniques (3 hours)
 860:136g Applied Instrumental Analysis (4 hours)
 860:137g Instrumental Analysis (4 hours)
 860:143g Physical Chemistry Laboratory (2 hours)
 860:145g Inorganic Chemistry (3 hours)
 860:149g Advanced Laboratory Techniques in Chemistry (2 hours)
 860:154g Biochemistry I (4 hours)
 860:155g Biochemistry II (2 hours)
 860:156g Biochemistry Laboratory (2 hours)
 860:161g Organic Structure Analysis (3 hours)
 880:144g Nanoscience and Nanotechnology I (3 hours)
 880:148g Nanoscience and Nanotechnology II (3 hours)

 30 hours
Notes:

1. Required science courses will be taken by PSM students in

a 100-level biology course 5 hours
70-73 hours

Total number of hours changes from 73 to 70-73 hours.

71 Administrative unit name change

--Revise to read:

The Department of Chemistry proposes a name change to the **Department of Chemistry and Biochemistry**.

Catalog

Page

COMPUTER SCIENCE

- 261 810:034 Change description (COBOL). Description: Examination of the COBOL language; emphasis on data processing techniques and structured programming methods. Sequential and indexed files, file maintenance, sorting, report design and multi-file processing. Concepts illustrated by business-like examples.

- 262 810:112 Change prerequisites (User Interface Design). Prerequisites: 810:114, 810:115, 810:153, 810:154, 810:172 or consent of instructor for non-majors; junior standing. (Variable).

- 262 810:141g Change description and prerequisites (System Security). Description: Topics include the need for security services, data integrity, network intrusion and monitoring, configuration of secure services, root kits, and buffer overflow techniques and remedies. Additional topics include enterprise-wide monitoring, honeypots, and recognizing trends in a networked environment. Prerequisites: 810:147; junior standing.

- Online 810:161g Change description (Artificial Intelligence). Description: Models of intelligent behavior and problem solving; knowledge representation and search methods; learning; topics such as knowledge-based systems, language understanding, and vision; optional 1-hour lab to include exploration of one or more additional AI programming techniques such as robotics; symbolic programming; heuristic programming; etc.

- Online 810:188g Change prerequisites (Topics in Computer Science). Prerequisites: 810:063 or 810:065; junior standing.

- 78 COMPUTER INFORMATION SYSTEMS MAJOR (restatement of major)

--Revise to read:

The Computer Information Systems major requires a minimum of 120 hours to graduate.

Required:

- Computer Science: 810:041; 810:061; 810:062;
- 810:063; 810:080 18 hours
- Business core:
- Accounting: 120:030; 120:031 6 hours
- Marketing: 130:101 3 hours
- Management: 150:153 3 hours
- Economics: 920:024 or 920:053 3 hours

Electives:

- Mathematics: (two courses from the following) . . . 6 hours
- 800:060#; 800:061#; 800:072 or 800:092; 800:076;
- 800:143; 800:152; 800:164; 800:169; 800:176;
- 800:177
- Computer Science: 18 hours
- Six courses including three courses from either the Software Engineering* or Information Science*

area and one course from each of the remaining three areas.

Foundations: 810:153; 810:154; 810:155; 810:161#; 810:162; 810:181; 810:182; 810:188.

Information Science: 810:112*; 810:114; 810:115; 810:116*; 810:118.

Software Engineering: 810:172; 810:173*; 810:174*#; 810:175*; 810:178.

Systems: 810:140; 810:141; 810:142; 810:143; 810:145; 810:147; 810:148

Electives: two additional courses selected from the above computer science courses and 100-level mathematics courses, or 810:034 6 hours
63 hours

*A project course (marked with asterisk) must be taken as one of three in an area of specialization.

800:060, 800:061, and 810:174 are 4-hour courses. 810:161 is a 4-hour course if taken with lab.

Total number of hours changes from 63-69 to 63 hours.

77 COMPUTER SCIENCE MAJOR (restatement of B.S. major)

--Revise to read:

Required:

Computer Science: 810:041; 810:061; 810:062; 810:063; 810:080 18 hours

Research: 810:180 (topic pre-approved by department) 1 hour

Electives:

Mathematics: (4 courses from the following) . . . 13 hours
800:060#; 800:061#; 800:072 or 800:092; 800:076; 800:143; 800:152; 800:164; 800:169; 800:176; 800:177

Computer Science: Eight courses including: . . . 24 hours
a specialization of three courses from the Foundations area; a specialization of three courses from one other area; one course from each of the remaining two areas; one of the specializations must include a projects course (marked with an asterisk*).

Foundations: 810:153; 810:154; 810:155*; 810:161#; 810:162*; 810:181; 810:182; 810:188.

Information Science: 810:112*; 810:114; 810:115; 810:116*; 810:118.

Software Engineering: 810:172; 810:173*; 810:174*#; 810:175*; 810:178.

Systems: 810:140; 810:141; 810:142; 810:143; 810:145*; 810:147; 810:148.

Electives: two additional courses selected from some of the computer science "area" courses and 100-level courses meeting the mathematics requirement . . . 6 hours
62 hours

*One course marked with an asterisk must be completed.

#800:060, 800:061, and 810:174 are 4-hour courses. 810:161 is a 4-hour course if taken with lab.

Total number of hours changes from 62-67 to 62 hours.

78 COMPUTER SCIENCE MAJOR (restatement of B.A. major)

--Revise to read:

Required:

Computer Science: 810:041; 810:061; 810:062;
810:063; 810:080 18 hours

Electives:

Mathematics: (two courses from the following) 6 hours
800:060#; 800:061#; 800:072 or 800:092;
800:076; 800:143; 800:152; 800:164; 800:169;
800:176; 800:177

Select one of the following core areas as a specialty 18 hours

Six courses* including three courses from selected specialty and one from each of the other three areas.

Foundations: 810:153; 810:154; 810:155*;
810:161# ; 810:162* ; 810:181; 810:182; 810:188.

Information Science: 810:112* ; 810:114; 810:115;
810:116* ; 810:118.

Software Engineering: 810:172; 810:173* ;
810:174*# ; 810:175* ; 810:178.

Systems: 810:140; 810:141; 810:142; 810:143;
810:145* ; 810:147; 810:148.

Electives: one additional course selected from the above computer science courses and 100-level mathematics courses
3 hours
45 hours

*A project course (marked with asterisk) must be taken as one of three in an area of specialization.

#800:060, 800:061, and 810:174 are 4-hour courses. 810:161 is a 4-hour course if taken with lab.

Total number of hours changes from 45-50 hours to 45 hours.

77 NETWORKING AND SYSTEM ADMINISTRATION MAJOR (restatement of major)

--Revise to read:

The B.S. Networking and System Administration major requires a minimum of 127 total hours to graduate.

Required:

Industrial Technology: 330:037; 330:039; 330:041;
330:103; 330:104; 330:152; 330:156 21 hours

Mathematics: 800:060; 800:061	8 hours
Computer Science: 810:041; 810:061; 810:062; 810:063; 810:080; 810:140; 810:141; 810:143; 810:147; 810:180	31 hours
Physics: 880:130; 880:131	8 hours
Electives: Two courses from the following	6 hours
Computer Science: 810:112; 810:114; 810:115; 810:116; 810:118; 810:142; 810:145; 810:148; 810:153; 810:154; 810:155; 810:161#; 810:162; 810:181; 810:182; 810:188.	
	<u>74 hours</u>

810:161 is a 4-hour course if taken with lab.

Total number of hours changes from 74-75 hours to 74 hours.

EARTH SCIENCE

- 870:117 New Course. Earthquakes -- 2 hrs.
Study of the causes, measurements, prediction, and preparation for earthquakes and the effects of earthquakes on civilization.
- 870:124g New Course. Air Dispersion Modeling -- 4 hrs.
Fundamentals of numerical weather prediction; data assimilation; parameterization techniques; estimating emissions; puff and trajectory models; dispersion of dense gases; statistical models; atmospheric chemical transport models; urban and regional regulatory models. Discussion, 3 periods; lab, 2 periods. Prerequisites: 800:061; 800:072; 810:035 or 810:036; 870:123; junior standing. (Offered even Falls).
- 870:177g New Course. Measurement and Analysis of Air Quality -- 4 hrs.
Fundamentals of air sampling and monitoring; estimating errors; collection and analysis of gases and particulates; olfactometry; remote sensing with satellites and lidar; indoor air quality. Discussion, 3 periods; lab, 2 periods. Prerequisites: 800:060; 860:132; 870:123; junior standing. (Offered odd Springs).
- Online 870:115g Change description (Volcanology). Description: Origin, classification, eruptive mechanisms, and hazards of volcanoes and related phenomena. Discussion, 2 periods; lab, 2 periods.
- Online 870:130 Change description (Crystallography). Description: Morphologic, structural, and x-ray crystallography. Laboratory exercises emphasize identification of unknown compounds, determination of space lattices, space groups, and cell parameters by x-ray diffraction. Discussion, 2 periods; lab 6 periods (half-semester course).
- Online 870:131 Change description (Systematic Mineralogy). Description: Crystal chemistry, determinative methods, and systematic description of naturally-occurring compounds with emphasis on rock-forming minerals. Laboratory exercises emphasize determinative techniques. Discussion, 2 periods; lab, 6 periods (half-semester course).
- Online 870:135 Change description (Optical Mineralogy-Petrography). Description: Optical properties of minerals and use of the petrographic microscope with emphasis on identification of minerals in thin section. Introduction to the description and classification of igneous, metamorphic, and sedimentary rocks. Discussion, 2 periods; lab, 6 periods.
- Online 870:142g Change description and prerequisites (Igneous Petrology). Description: Description, classification, and genesis of igneous rocks. Discussion, 2 periods; lab, 6 periods. Field trip. Prerequisites: 870:135; junior standing.

Online 870:143g Change description (Geochemistry). Description: Distribution of elements in the Earth and the chemical processes governing these distributions. Discussion, 2 periods; lab, 6 periods.

AIR QUALITY (new B.S. major)

Bachelor of Science Degree Program

-- 126 semester hours

Air Quality Major

Required:

Chemistry: 860:132 4 hrs
Earth Science: 870:021; 870:121; 870:122;
870:123; 870:124 [Air Dispersion Modeling];
870:137 or 870:195; 870:177 [Meas. and Anal.
of Air Quality]; 870:180 27 hrs.
Geography: 970:173 3 hrs.
Environmental Science: 830:166 3 hrs
37 hrs

Required cognate areas: 27-33 hrs.

Chemistry: 860:044 and 860:048, or 860:070
Computer Science: 810:035 or 810:036
Mathematics: 800:060; 800:061; 800:072
Physics: 880:054 and 880:056 and one 100-
level cognate* elective, or 880:130 and
880:131

64-70 hours

*A 100-level course in a cognate area is required unless met by taking 880:131. Cognate areas for the B.S. degree program in air quality are understood to include chemistry, computer science, geography, mathematics, and physics. Specific cognate courses must be approved by the advisor and department head.

85 GEOLOGY MAJOR WITH ENVIRONMENTAL SCIENCE EMPHASIS (restatement of major)

--Revise to read:

Required:

Mathematics: one of the following courses: 800:046;
800:060; 800:072; 800:092; or 800:172 3-4 hours
Chemistry: 860:044 and 860:048, or 860:070 5-8 hours
Earth Science: 870:031 ; 870:035; 870:129;
870:130; 870:131; 870:135; 870:136 24 hours
Physics: 880:054 and 880:056, or 880:130 and
880:131 8 hours
Economics: 920:024 3 hours

Required environmental science core:

Biology: 840:051 ; 840:052 8 hours
Earth Science: 870:171 3 hours

Two additional environmental courses as appropriate to the student's program and approved by the advisor and the department. 6-8 hours

Summer field course* 6 hours
66-72 hours

*Summer field course requirements to be met by credit earned at field camp approved by the department.

Total number of hours decreases from 69-75 hours to 66-72 hours.

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INDUSTRIAL TECHNOLOGY

- 330:127 New Course. Transport Phenomena for Technologists -- 3 hrs. Application of fluid flow, heat transfer, and diffusion mass transport concepts to material processing including conduction, convection, radiation, Bernoulli's principles, turbulent flow, and Fick's first and second law of diffusion are presented. Prerequisites: 330:040; 860:044; 800:046 or 800:060.
- Online 330:019 Change title and description. Title from (Introduction to Technology Education) to "Introduction to Technology Education and Training." Description: Evolution and contemporary approaches in technology education and training. Examination of career opportunities.
- 208 330:024 Change hours and description (Technical Drawing and Design). Hours from 3-4 to 4. Description: Fundamentals of the engineering design process including descriptive geometry, geometric construction, multiview projection, fits and tolerances, and applications. Discussion and applications, 4 periods, design lab 2 periods.
- 208 330:055 Drop prerequisites (Graphic Arts Technology).
- 208 330:060 Change prerequisites (Fundamentals of Automated Manufacturing). Prerequisites: 330:008 or 330:009.
- Online 330:065 Change title and description. Title from (The World of Technology) to "Technology in Society and Organizations." Description: Study of technology in society and the workplace, including selection, utilization, management, impact, and optimization. Focused experiences will facilitate technological literacy. Lecture/Discussion, 3 periods; Lab, 2 periods. May be taken without lab for 3 credit hours.
- 209 330:113g Change prerequisites (Manufacturing Tooling). Prerequisites: 330:008; 330:009; 330:017; 330:024; 330:132; 330:170; junior standing.
- 209 330:122g Change prerequisites (Advanced CAD and Modeling). Prerequisites: 330:017; 330:024; junior standing.
- 98 330:125 Change prerequisites (Commercial and Heavy/Highway Construction). Prerequisite: 120:030.
- 209 330:129g Add "g". Change prerequisites (Linear Control Systems). Prerequisites: 330:039; 800:060; corequisites: 330:152; 880:054 or 800:130; junior standing. (Offered Fall)
- 209 330:132g Change prerequisites (Applied Metallurgy). Prerequisites: 330:008; 860:010 or 860:044; junior standing.
- 209 330:135g

Change prerequisites (Design for Manufacturing). Prerequisites: 330:017; 330:024; 330:106; 330:113; 330:148; 330:170; 330:172; 800:046 or 800:060; junior standing.

- 209 330:137g Change prerequisites (Tooling Practices in Metal Casting). Prerequisites: 330:040; 330:127; junior standing.
- 209 330:141g Drop Course. Foundry Research Practicum -- 3 hrs.
- 209 330:144g Change prerequisites (Web Publishing). Prerequisite: junior standing.
- 210 330:149 Change prerequisites (Construction Estimating). Prerequisites: Corequisite: 330:125; Junior standing.
- 210 330:152g Change prerequisites (Advanced Analog Electronics). Prerequisites: 330:037; 330:039; 330:041; 800:060; junior standing. (Offered Spring).
- 210 330:155g Change prerequisites (Finite Element Analysis). Prerequisites: 330:132; 330:170; 800:046 or 800:060; junior standing.
- 210 330:156g Change prerequisites (Advanced Digital Electronics). Prerequisites: 330:037; 330:039; 330:042 or 810:041; 810:030 or 810:035 or 810:036 or 810:061; junior standing. (Offered Spring).
- 210 330:157g Change title and prerequisites. Title from (Real-Time Industrial Computing) to "Microcomputer Applications." Prerequisites: 330:152; 330:156; 810:030 or 810:035 or 810:036; junior standing. (Offered Fall).
- 210 330:158g Change prerequisites (Lithographic Technology). Prerequisites: 330:055; junior standing.
- 210 330:161g Change prerequisites (Graphics Techniques). Prerequisite: Junior standing.
- 210 330:163g Change prerequisites (Advanced Copy Preparation). Prerequisites: 330:070; 330:161g; junior standing.
- Online 330:163g Change prerequisites (Advanced Copy Preparation). Prerequisites: 330:070; 330:161; junior standing.
- 210 330:164g Change prerequisites (Programmable Logic Controllers). Prerequisites: 330:038; 330:039; 330:041; 330:042; 810:030 or 810:035 or 810:036; junior standing. (Offered Spring).
- 210 330:167 Change title and prerequisites. Title from (Industrial Applications of Power Electronics) to "Power Electronics Applications." Prerequisites: 330:039; 330:041; junior standing. (Offered Spring).

- 210 330:169 Drop prerequisites (Applied Photography).
- 210 330:170 Change prerequisites (Statics and Strength of Materials). Prerequisites: 800:046 or 800:060; 880:054.
- 210 330:172g Change description and prerequisites (Industrial Materials). Description: Principles and properties of ceramics, polymers, and composite materials. Lecture and lab. Prerequisites: 330:008; 330:009; 860:010 or 860:044; junior standing.
- 99 ELECTRICAL AND ELECTRONICS TECHNOLOGY MINOR (EET) (restatement of minor)

--Revise to read:

Required:

Industrial Technology: 330:037; 330:038; 330:039 ;	
330:041; 330:042; 330:164	18 hours
Mathematics: <u>800:060</u>	4 hours
Computer Science: 810:030 or 810:035 or 810:036	3 hours
Physics: <u>880:054</u> or <u>880:130</u>	<u>4</u> hours
	29 hours

Total number of hours remains the same.

- 98 MANUFACTURING TECHNOLOGY MAJOR (restatement of major)

--Revise to read:

The Manufacturing Technology major requires a minimum of 126 hours to graduate.

Required mathematics and science core:

Mathematics: 800:046 or 800:060; 800:072	7 hours
Chemistry: 860:010 or 860:044	4 hours
Physics: 880:054 or 880:130	4 hours

Required technical Core:

Industrial Technology: 330:008; 330:009; 330:017;	
330:024; 330:060; 330:112; 330:132; 330:142;	
330:143; 330:170; 330:172; 330:179 <u>1 hr.</u> ; 330:187;	
330:196; 330:197	39 hours

Concentration: Choose one of the following three concentrations 21 hours
75 hours

Automation and Production: 330:014; 330:113; 330:145; 330:146; 330:147; 330:177; 3 hours electives (see below).

Manufacturing Design: 330:106; 330:113; 330:122; 330:135; 330:148; 330:155; 4 hours electives (see below).

Metal Casting: 330:040; 330:134; 330:136; 330:137; 330:192; 330:1XX [Trans. Phenom. for Tech.] 4 hours electives (see below).

Select elective hours from the following:

Industrial Technology: any 100-level course.

Management: 150:113; 150:119.
 Communication: 48C:141; 48C:173.
 English, Language and Literature: 620:106.
 Philosophy: 650:142.
 Sociology: 980:102.

Total number of hours remains the same.

99 TECHNOLOGY EDUCATION AND TRAINING MAJOR (restatement of major)

--Revise to read:

Technology Education and Training Major: Teaching Option

Science core:
Physics: 880:011* or 880:012 or 880:054* 3-4 hours
 Technology core:
 Industrial Technology: 330:008; 330:009; 330:017;
 330:018; 330:022; 330:024; 330:036; 330:114 or
 330:121 24 hours
 Education and training core:
 Industrial Technology: 330:019; 330:120;
 330:178; 330:190; 330:195 15 hours
 Electives in industrial technology: (choose from
 construction, energy and power, or
 transportation) 6 hours
 48 hours

*4-hour course

Total number of hours increases from 47-48 hours to 48 hours.

Technology Education and Training Major: Training Option

Required:

Science core:
Physics: 880:011* or 880:012 or 880:054* 3-4 hours
 Technology core:
 Industrial Technology: 330:008; 330:009;
 330:017; 330:018; 330:022; 330:024; 330:036;
 330:114 or 330:121 24 hours
 Education and training core:
 Industrial Technology: 330:019; 330:120; 330:178;
 330:190; 330:195 15 hours
 Technology training:
 Measurement and Research: 250:150 2 hours
 Industrial Technology: 330:020; 330:143 or
 150:153; 330:168; 330:187 12 hours
 Mathematics: 800:072 3 hours
 English Language and Literature: 620:077 or
 620:106 3 hours
 62 hours

*4-hour course

Total number of hours increases from 61-62 hours to 62 hours.

99 TECHNOLOGY MANAGEMENT MAJOR

--Revise to read:

Technology Management Major (restatement)

--revise to read

Required:

Industrial Technology: 330:008; 330:009;
330:018; 330:020; 330:022; 330:036;
330:065; 330:142; 330:143 or 150:153;
330:172; 330:187; 330:196.....35-36 hours
Mathematics: 800:072..... 3 hours
Chemistry: 860:010 or 860:044..... 3-4 hours
Physics: 880:011 or 880:012 or 880:054.....3-4 hours
Electives in industrial technology.....18 hours
62-65 hours

Total hours remain the same.

208 course offerings

--Revise to read:

330:070 Desktop Composition - 3 hrs.
Design and layout of publications by computer; including typography,
graphics, color, system configurations and industrial applications.
(Offered Fall).

MATHEMATICS

- 800:122g New Course. Statistical Computing -- 3 hrs.
Use of statistical software such as SAS, SPSS, S-Plus, Minitab. Data management, graphical techniques and data analysis, computer-intensive statistical methods. Prerequisites: 800:072.
- 800:123g New Course. Design and Analysis of Experiments -- 3 hrs.
Planning and organizing experiments, one-factor experiments, randomized blocks, Latin squares and related designs, factorial designs and fractional factorial designs, response surface methodology, nested and split-plot designs. Prerequisite: 800:121 or consent of instructor.
- 800:124g New Course. Modeling for Industrial Mathematics -- 3 hrs.
Mathematical models arising in industrial applications and some of the techniques used to analyze them, taken from areas such as statistics, transform theory, differential equations and numerical analysis. Writing and presentation skills are emphasized. Prerequisites: Junior standing.
- 800:125g New Course. Geometric Modeling for CAD -- 3 hrs.
B-spline curves and surfaces, Bezier curves and surfaces, NURBS, curve and surface design, multi-resolution methods, subdivision/refinement methods, scattered data fitting, mesh generation, solid representation, solid modeling. Prerequisites: 800:062, 800:076.
- 800:126g New Course. Operations Research Models -- 3 hrs.
Overview of optimization models, transportation and assignment problems, network analysis, inventory theory, decision theory, queuing theory, dynamic programming. Prerequisite: 800:152.
- 800:166g New Course. Advanced Euclidean Geometry -- 3 hrs.
Topics of plane geometry beyond a first course: compass and straightedge constructions, the nine-point circle, Ceva's and Menelaus' theorems, triangle centers, conics, and tessellations. Prerequisites: 800:060 or equivalent; junior standing. (Offered alternate semesters with 800:165g.)
- 800:183 New Course. Connections: University Mathematics and the Secondary Curriculum -- 3 hrs.
Make connections between the undergraduate mathematics major and the secondary mathematics curriculum. A consideration of modern algebra, modern geometry, probability and statistics, calculus and number theory in the context of the secondary mathematics curriculum. Prerequisites: Co- or pre-requisite: 800:188; 200:128, 200:017, 200:030, corequisites 200:148 and 250:150, 200:148; 6 hours of 100- level courses in mathematics.
- 800:243 New Course. Topics in Discrete Mathematics -- 3 hrs.
Topics from combinatorics, graph theory, analysis and application of algorithms, recurrence relations, difference equations, linear programming, and mathematical induction.

Applications of these topics in the secondary curriculum.
Prerequisites: 800:160 or 800:143.

- 800:267 New Course. Non-Euclidean Geometry -- 3 hrs.
Historical development of geometry models that do not assume Euclid's fifth postulate. Emphasis is on Poincare's disc and upper half-plane models, distance and area in the hyperbolic plane, and Mobius transformations. Prerequisites: 800:076; 800:160; 800:165 or 800:166.
- 800:271 New Course. Teaching Statistics at the Secondary Level -- 3 hrs.
Teaching probability, and descriptive and inferential statistics to secondary students. The distributions of discrete and continuous random variables, confidence intervals, hypothesis testing, regression and correlation. Prerequisites: 800:173 or 800:152.
- 800:272 New Course. Advanced Statistical Methods -- 3 hrs.
Categorical data analysis, logistic and Poisson regression, forecasting, repeated measures, classification and discriminant analysis, cluster analysis, data mining. Prerequisite: 800:1xx [123 Des. & Anal. of Exper.].
- 800:274 New Course. Project Management for Science Professionals -- 3 hrs.
General systems management, organizational structures, composition and role of project teams, project management processes, related quantitative techniques and methodologies, practical implementations, and project management software.
- 800:275 New Course. Industrial Internship/Project -- 6 hrs.
Mathematical analysis of industrial problems. Features work on a project of interest to a cooperating company. Oral and written reports required on the project. Prerequisites: Approval of graduate coordinator and admittance to the PSM program.
- 800:277 New Course. Applied Numerical Analysis -- 3 hrs.
Estimations of accuracy in numerical calculations, propagation of error and backward error analysis; numerical solutions of differential equations and boundary value problems by Euler, Runge-Kutta, Galerkin, finite difference and finite element methods; spline approximations. Prerequisites: 800:062, 800:076.
- 800:280 New Course. Mathematics at the Secondary Level -- 3 hrs.
The history of secondary mathematics in the US. Overview of the most recent reform movement in mathematics education; its effect on the teaching and learning of high school mathematics. Prerequisites: Graduate standing in mathematics.
- 800:281 New Course. Current Research in School Mathematics -- 3 hrs.
Analysis of research in mathematics education and its implications for instruction in high school programs. Prerequisite: 800:280.

- Online 800:046 Change description (Elementary Analysis). Description: Pre-calculus mathematics; equations and inequalities; logarithms, exponential and circular functions; analytic trigonometry, analytic geometry, mathematical induction; applications. Credit reduced to 1 hour for students with credit in 800:043 or 800:056 and to 2 hours for students with credit in 800:044.
- 258 800:143g Change description (Combinatorics). Description: Various ways to enumerate elements of a set and graph theory. Appropriate for mathematics, mathematics education, computer science, and actuarial science students.
- Online 800:157g Change title. Title from (Statistical Quality Control) to "Statistical Quality Assurance Methods."
- Online 800:165g Change title and description. Title from (Introduction to Modern Geometry) to "Introduction to Modern Geometries." Description: Euclid's postulates serve as a model for studying various axiomatic systems defining incidence geometries. Geometries include finite geometries, plane geometry, neutral geometry, taxicab geometry, spherical geometry, and hyperbolic geometry.
- Online 800:180g Change description (History of Mathematics: To the Calculus). Description: Survey of mathematical activities of humankind in numeration and number systems, algebra, and number theory, from pre-history through the present day. Motives, influences, and methods affecting development of these mathematical topics in Mesopotamian, Egyptian, Greek, Islamic, Indian, Chinese, Native American, and Western civilizations. Ethnomathematics as related to these topics.
- Online 800:185g Change title and description. Title from (History of Mathematics: From the Calculus to the 21st Century) to "History of Mathematics: From the Calculus." Description: Survey of mathematical activities of humankind in calculus, from ancient civilizations to the present day. Post-calculus topics selected from analysis, set theory, geometry and topology, mathematical logic, and other integrative developments in 20th century mathematics. Ethnomathematics as related to these topics.
- Online 800:189g Change description and prerequisites (Geometric Transformations). Description: Isometries of the plane in the context of Klein's definition of a geometry as a group acting on a set of points. Rotations, reflections, and translations are used to study congruence, similarity, and symmetry and to solve problems that would otherwise be difficult using analytic geometry and calculus. Prerequisites: 800:076, 800:165 or 800:166g; junior standing.
- 261 800:265 Drop Course. Geometric Symmetry -- 3 hrs.
- Online 800:266 Change description (Topics in Geometry). Description: Topics

from Euclidean and non-Euclidean geometry: convexity, polyhedra and polytopes, model-making, curves and surfaces, paper-folding, symmetry, history, circle inversion, and other topics at the discretion of the instructor.

CERTIFICATE IN CONTINUOUS QUALITY IMPROVEMENT (new certificate)

The Continuous Quality Improvement Certificate provides academic coursework that covers all of the Body of Knowledge (BOK) on which the American Society for Control (ASQ) Six Sigma Black Belt certification examination is based, as well as the overwhelming majority of the BOK on which the ASQ Quality Engineer certification examination is based. The coursework requirements are a subset of those required in the Continuous Quality Improvement Option of the Professional Science Master's Degree in Industrial Mathematics. The certificate is awarded on successful completion of the following courses:

Required:

800:121g Applied Statistical Methods	3 hrs.
800:157g Statistical Quality Assurance Methods	3 hrs.
800:123g Design and Analysis of Experiments	3 hrs.
800:126g Operations Research Models	3 hrs.
800:289g Seminar in Lean and Six-Sigma Methods in Industry	2 hrs.
800:272 Advanced Statistical Methods	<u>3</u> hrs.
	17 hrs.

**PROFESSIONAL SCIENCE MASTER'S DEGREE IN INDUSTRIAL MATHEMATICS
(new certificate)**

The Professional Science Master's Degree in Industrial Mathematics is designed to prepare students for a career in industry. The curriculum combines a Business and Experiential Component with two degree options, one in Continuous Quality Improvement and the other in Mathematical Computing and Modeling. The Industrial Mathematics PSM student will complete the Business and Experiential Component and one of the two options. There will be one elective course in each option, with the choice approved by the Graduate Coordinator. Requirements for admission to the program include the completion of a bachelor's degree with a G.P.A of 3.0 or higher and successful completion of the following university-level courses: single and multivariable calculus (800:060, 800:061, 800:062), linear algebra (800:076) an introduction to statistics (800:072), calculus-based probability (800:152) and a course in computer programming (810:030, 810:035, 810:036, 810:061, or an equivalent).

Specific requirements for the options follow.

Continuous Quality Improvement Option

Business and Experiential Component

820:209 Business and Management for Science Professionals	3 hrs.
800:274 Project Management for Science Professionals	3 hrs.

800:275 Industrial Internship/Project. 6 hrs.

Required Courses:

800:121 Applied Statistical Methods 3 hrs.
800:157 Statistical Quality Assurance Methods . . . 3 hrs.
800:123 Design and Analysis of Experiments . . . 3 hrs.
800:126 Operations Research Models 3 hrs.
800:289 Seminar in Lean and Six-Sigma Methods
in Industry 2 hrs.
800:272 Advanced Statistical Methods 3 hrs.
880:205 Modeling and Simulation of Physical
Systems 3 hrs.

One elective course chosen from the following list . 3 hrs.

800:175 Regression Analysis (3 hrs.)
800:196 Applied Multivariate Analysis (3 hrs.)
800:122 Statistical Computing (3 hrs.)
800:124 Modeling for Industrial Mathematics (3 hrs.)
800:177 Linear and Non-linear Programming (3 hrs.)
800:273 Topics in Probability and Statistics (3 hrs.)

35 hrs.

Mathematical Computing and Modeling Option

Business and Experiential Component

820:209 Business Management for Science
Professionals 3 hrs.
800:274 Project Management for Science
Professionals 3 hrs.
800:275 Industrial Internship/Project 6 hrs.

Required Courses

800:124g Modeling for Industrial Mathematics. . . 3 hrs.
800:125g Geometric Modeling for CAD 3 hrs.
330:122g Advanced CAD and Modeling 3 hrs.
800:177g Linear and Non-linear Programming . . . 3 hrs.
800:277 Applied Numerical Analysis 3 hrs.
880:205 Modeling and Simulation of Physical
Systems 3 hrs.
820:289 Professional Science Master's Seminar . . 1 hr.

One elective course chosen from the following list. 3 hrs.

800:121g Applied Statistical Methods for
Research (3 hrs.)
800:149g Differential Equations (3 hrs.)
800:150g Partial Differential Equations (3 hrs.)
800:176g Numerical Analysis I (3 hrs.)
800:178g Numerical Analysis II (3 hrs.)
800:126g Operations Research Models (3 hrs.)
330:147g Computer Aided Manufacturing (3 hrs.)

34 hrs.

154 MAJOR IN MATHEMATICS (restatement of MA program)

--Revise to read:

The major in mathematics is available with two emphases: Non-Teaching and Secondary Teaching. The Non-Teaching emphasis is available in both the thesis and non-thesis option, requiring a minimum of 36 hours for the thesis option and 32 hours for the non-thesis option. The major in secondary teaching is offered on a non-thesis option only and requires a minimum of 32 hours.

The Graduate Record Examination (General Test) is not required for admission to the program.

Successful completion of a final written comprehensive examination is required for the non-thesis option.

Courses taken to satisfy B.A. requirements may not be repeated to count toward the graduate program.

Non-Teaching Emphasis

Required:

Mathematics: 800:155 or 800:189; 800:201; 800:203;
 800:240 12 hours
 At least two of the following: 800:202; 800:204;
 800:245; 800:266 6 hours
 Research: 800:299 2 or 6 hours
 Thesis option (6 hrs.)
 Non-thesis option (2 hrs.)
 Electives from the following 12 hours
 Mathematics: Any of the courses listed above that
 were not used for the requirements there, or from
 among the following: 800:141, 800:149, 800:150,
 800:152, 800:154, 800:157, 800:158, 800:161,
 800:162, 800:167, 800:168, 800:169, 800:174,
 800:175, 800:176, 800:178, 800:180 or 800:185,
 800:181, 800:182, 800:184, 800:187, 800:193, 800:196,
 800:210, 800:246, 800:263, 800:265, 800:273.
 32-36 hours

Secondary Teaching

Required:

Mathematics Education/Technology:
 800:280; 800:281; 800:291; 800:293 12 hours
 Mathematics: 800:140; 800:162 or 800:240;
 800:243; 800:246; 800:266 or 800:267; 800:271. 18 hours
 Research: 800:299 2 hours
 32 hours

Total number of hours in Secondary Teaching decreases from 35-36 hours to 32 hours.

109 MATHEMATICS MAJOR-TEACHING (restatement of major)

--Revise to read:

Required:

Mathematics: Common core: 800:060; 800:061; 800:062;
 800:076 15 hours
 Teaching core: 800:143; 800:160; 800:165 or 800:166;

800:173; 800:180 or 800:185; 800:183; 800:188;
800:190; two of the following -- 800:144,
800:162, 800:189 30 hours
Mathematics: 800:096

or

Computer Science: 810:030 or 810:035 or 810:036 or
810:061 3-4 hours
48-49 hours

For departmental approval to student teach, a student on the program must satisfy the university requirements to student teach and the following specific departmental requirements:

All grades in departmental courses to be applied to this program must be C- or higher unless the student's grade point average is 2.25 or higher in all the departmental courses to be applied to this program.

Total number of hours increases from 45-46 hours to 48-49 hours.

PHYSICS

- 820:209 New Course. Business Management for Science Professionals -- 3 hrs.
A course designed to provide science professionals with a strong foundation of critical business knowledge and skills, including strategic management, accounting, legal issues, personnel management, and communication styles and formats. Prerequisite: 820:289 [Professional Science Master's Seminar].
- 820:215 New Course. Corporate/Industrial Problem Solving -- 3 hrs.
Teams of PSM students work together to solve problems that typify real-world situations or to provide consultative services to companies. Prerequisites: 820:289 [PSM Seminar] and a minimum of 6 hours completed in a PSM degree program.
- 820:289 New Course. Professional Science Masters Seminar -- 1 hr.
A weekly seminar for professional Science Masters students which alternates student presentations with discussions between students and company representatives. Presentations are on select industries or corporations, one presentation every other seminar session. Alternate weeks are devoted to discussions with representatives of the selected companies. May be repeated for credit a maximum of 3 times (3 hours). Prerequisite: Admittance to the PSM graduate program.
- 820:295 New Course. Professional Science Master's Internship -- 4-6 hrs.
Supervised work experience for Professional Science master's students. Students will receive appropriate industrial/corporate training in their specific field of expertise. Prerequisites: Enrolled in PSM program and consent of appropriate department head.
- 880:144g New Course. Introduction to Nanoscience and Nanotechnology -- 3 hrs.
Introduction to nanoscale materials and processes; types of materials; chemical bonding and nanoscale interactions; nanoscale microscopy and spectroscopic methods of investigation. Prerequisites: 880:054 or 880:130, 880:056 or 880:131, 860:044, 880:048.
- 880:148g New Course. Intermediate Nanoscience and Nanotechnology -- 3 hrs.
A study of Nanoscale materials and processes, with emphasis on nanoscale microscopy and other experimental methods of investigation and control on the nanoscale. Prerequisites: 880:144, 880:054 or 880:130, 880:056 or 880:131, 860:044, 880:048.
- 880:155g New Course. Magnetism and Magnetic Materials -- 3 hrs.
Origins of magnetism; paramagnetism; diamagnetism; ferromagnetism; ferrimagnetism; magnetoresistance; application of magnetic materials; design and fabrication of magnetic

materials; finite-element modeling. Includes a laboratory.
Prerequisite: 880:137.

880:160g New Course. Experiment Design -- 3 hrs.
Design and statistical analysis of observational and factorial experiments employing numerical and graphical methods, with examples and case studies from industry and the natural sciences. Prerequisite: 800:121 or equivalent.

880:205 New Course. Modeling and Simulation of Physical Systems -- 3 hrs.
An introduction to current computational modeling methods and their uses in physical and other systems. Prerequisites: 880:150, or 800:176 and a course in computer programming, or the equivalent.

880:220 New Course. Computer Interfacing and Signal Processing -- 3 hrs.
An introduction to computer interfacing, instrument control, and data acquisition. Digital signal processing will be discussed, and industry-standard software platforms will be utilized in laboratory activities. Prerequisites: 880:132, 880:152.

272 880:040 Drop Course. Elementary Holography -- 1 hr.

272 880:120g Drop Course. Elementary Atomic and Nuclear Physics -- 4 hrs.

272 880:134g Drop Course. Environmental Applications of Physics -- 3 hrs.

Online 880:140g Change title. Title from (Modern Optics: Holography and Imaging) to "Holography, Imaging, and Optical Measurement."

273 880:142g Drop Course. Musical Acoustics -- 3 hrs.

PROFESSIONAL SCIENCE MASTER'S IN APPLIED PHYSICS (New Masters Program)

**Professional Science Master
Major in Applied Physics (30 hours)**

This degree prepares students for careers in applied physics or engineering businesses and industries. Emphasis is placed on blending core physics knowledge and applied skills with an understanding of business and an internship experience. Admission is restricted to students with a GPA of 3.00 or higher and a B.A. or B.S. in Physics or a related discipline. To be admitted, students must also have taken the following courses or their equivalents: Physics III (880:132) or equivalent; Modern Physics (880:137g); and Modern Physics Laboratory (880:138g) or a physics laboratory course at an equivalent level.

Required:

Mathematics:

800:121 Applied Statistical Methods for Research. . 3 hours

Physics:

880:205 Computer Simulations.	3 hours
880:220 Computer Interfacing and Signal Processing.	3 hours
880:160 Experiment Design	3 hours
Science:	
820:209 Business Management for Science Professionals	3 hours
820:215 Corporate/Industrial Problem Solving.	3 hours
820:289 Professional Science Master's Seminar	1 hour
820:295 Professional Science Master's Internship.	4 hours
Physics electives at 100g or above	7 hours
Electives:	
880:140 Holography, Imaging and Optical Measurement (3 hours)	
880:144 Introduction to Nanoscience and Nanotechnology (3 hours)	
880:148 Intermediate Nanoscience and Nanotechnology (3 hours)	
880:150 Computational Physics (3 hours)	
880:152 Electronics I (4 hours)	
880:155 Magnetism and Magnetic Materials (3 hours)	
880:166 Classical Mechanics (4 hours)	
880:167 Electrodynamics (4 hours)	
880:172 Quantum Mechanics (4 hours)	
880:174 Applied Quantum Physics (4 hours)	
	30 hours

156 MASTER OF ARTS, MAJOR IN PHYSICS EDUCATION

--Drop Program.

119 Addition of statement regarding Combined B.A./P.S.

--Revise to read:

Combined B.A./P.S.M. or B.S./P.S.M. Applied Physics

The B.A./P.S.M. or B.S./PSM degree program is a five-year program leading to both the B.A./B.S. in physics or applied physics and the P.S.M. degree in applied physics. This degree program prepares students for careers in applied physics or engineering businesses and industries. Emphasis is placed on blending core physics knowledge and applied skills with an understanding of business and an internship experience. Students interested in this program may declare their intent by end of the junior year, provided they have completed 880:150 and have an overall grade point average (GPA) of 3.00 or above. An Application for Admission to Graduate Study should be completed and the student's interest in the Combined B.A./P.S.M. or B.S./P.S.M. Program in Applied Physics indicated on the application itself. Once admitted to the program, undergraduate students (who are classified as seniors) may register for graduate credit as a senior, with the approval of the department head (see guidelines on pages 61-62). The student presents a signed Student Request form (with appropriate signatures), when registering for graduate credit as a senior. The combined total of course credits, both undergraduate and graduate, may not exceed 15 hours in a

semester, or eight (8) hours in a summer session. Graduate work completed on the early admission basis will be counted as graduate credit only if the student actually earns the bachelor's degree at the end of the semester or summer session in which the course work is taken. Actual admission to graduate study and classification as a graduate student commences the semester after the student has completed the baccalaureate.

SCIENCE

121 ALL SCIENCE TEACHING (Extended Program) (restatement of major)

--Revise to read:

This major is intended for students who wish to teach at the secondary level in all areas of science (biology, chemistry, earth science, and physics). The program will lead to Iowa Department of Education endorsement in biology, chemistry, earth science, physics, physical sciences, and general science. The All Science Teaching major requires a minimum of 144 total hours to graduate. Because of the number of courses required for this major and course sequencing, it cannot be completed in eight semesters of normal work. It will require a longer time or additional work during summers.

Required:

Science and Science Education: 820:190; 820:193;
 820:196 8 hours
 Biology: 840:051; 840:052; 840:140; 840:193. . . . 15 hours
 Chemistry: 860:044; 860:048* 8 hours
 Earth Science: 870:031; 870:035 8 hours
 Physics: 880:054; 880:056 8 hours

Electives from the following:

Biology: 840:168; 840:169; 840:142 3-4 hours
 Chemistry: (any 100-level) 7-8 hours
 Earth Science: 870:010**; 870:021; 870:022 7-8 hours
 Physics (any 100-level) 7-8 hours
 73 hours

For completion of this major the grade point average in each of the four science disciplines must be a minimum of 2.00, with a 2.50 GPA in the major as a whole.

Elective courses must be ones that count toward the major in the discipline or be approved for this use by the department offering the course.

*Students with excellent preparation in chemistry may substitute 860:070 plus 3 hours of additional credit hours in chemistry electives for 860:044 and 860:048.

**870:010 must be taken for four semester hours of credit.

Notes:

1. Students with sufficient high school preparation may be allowed to omit some introductory courses and substitute other courses from the same department.
2. The mathematics prerequisite for one or more of the above courses is a working knowledge of algebra and trigonometry or 800:046.

Total number of hours remains the same.

175

SPECIALIST DEGREE
MAJOR IN SCIENCE EDUCATION

--Drop Program.

(This is the only major offered under the Specialist Degree. With the Major in Science Education being dropped, the Specialist Degree will no longer be offered.)

122

MIDDLE/JUNIOR HIGH SCHOOL SCIENCE TEACHING (restatement of major)

--Revise to read:

This major is intended for students who wish to teach science at the junior high or middle school level. This major, if taken in conjunction with the Middle School major in the College of Education, will lead to Iowa Department of Education endorsement in All Science I Grades 5-8. As a stand-alone major, it fulfills 7-12 General Science and Physical Science endorsements.

Required:

Educational Psychology: 200:116	2 hours
Elementary, Early Childhood, and Middle Level	
Education: 210:122	3 hours
Science and Science Education: 820:190; 820:196;	
two of the following three courses: 210:150g,	
820:193g, 840:193g	11 hours
Biology: 840:051; 840:052	8 hours
Chemistry: 860:044; 860:048*	8 hours
Earth Science: <u>870:010**</u> ; <u>870:021</u> ; 870:022;	
<u>870:031</u>	12 hours
Physics: 880:054; 880:056	8 hours

Electives in science:

From biology, chemistry, physics and earth science	
which must include 6 hours at the 100-level or	
above	<u>7</u> hours
	59 hours

For completion of this major the grade point average in each of the four science disciplines must be a minimum of 2.00, with a 2.50 GPA in the major as a whole.

*Students with excellent preparation in chemistry may substitute 860:070 plus 3 hours of additional credit hours in chemistry electives for 860:044 and 860:048.

**870:010 must be taken for four semester hours of credit.

Notes:

1. Students with sufficient high school preparation may be allowed to omit some introductory courses and substitute other courses from the same department.
2. The mathematics prerequisite for one or more of the above

courses is a working knowledge of algebra and trigonometry
or 800:046.

Total number of hours remains the same.

DESIGN, FAMILY AND CONSUMER SCIENCES

- 31F:145g New Course. Violence in Intimate Relationships -- 3 hrs.
This course explores theoretical models of violence in intimate and family relationships and examines the impact of violence on secondary victims. Empirical and programmatic implications for prevention and intervention models are reviewed. Prerequisites: Junior standing.
- 31G:170g New Course. Long Term Care Administration -- 3 hrs.
The study of long term care administration including social services, dietary, legal aspects; nursing; environmental services, activities/community resources; business administration; administrative organization, and human resource management. Prerequisites: 6 hours gerontology core courses (Two of the following four courses: 31F:150; 400:173; 410:125; 980:125); junior standing.
- 205 31F:054 Change description (Decision Making in Family Systems).
Description: Exploration of situational, intrapersonal, and interpersonal dynamics of family interaction and decision-making. Development, maintenance, enrichment, and change in relationships.
- 205 31F:157g Change prerequisites (Family Life and Human Sexuality).
Prerequisites: 31F:057; [3 hours social science research methods]; junior standing.
- 205 31F:178 Drop "g". (Family Life Education).
- 207 31T:011 Add Prerequisites. Change description (Computer Textile and Apparel Design Foundations). Description: Introduction to computer aided design (CAD) software (U4ia, FB Designer (formerly KaratCAD), Adobe Photoshop, Adobe Illustrator, and Adobe Streamline) to investigate the elements and principles of design as applied to textiles and apparel. Prerequisite: 31T:012.
- 207 31T:014 Change title, description, and prerequisites. Title from (Apparel Evaluation) to "Apparel Design and Evaluation." Description: Apparel design, flat pattern, construction, tailoring, and couture skills introduced and developed to create and evaluate original apparel garments. Prerequisite: 31T:012; 31T:013.
- 207 31T:015 Change description (Multicultural Aspects of Apparel Design).
Description: Multicultural aesthetic and technical aspects of apparel design and assembly are explored to create sample books, and apparel garments and accessories.
- 206 31T:100 Change description and prerequisites (Computer Applications for the Textile and Apparel Industry). Description: Apparel industry-based software (U4ia, FB Designer (formerly KaratCAD), Adobe Photoshop, Adobe Illustrator, and Adobe Streamline

applied to the areas of textile and apparel design, and product development. Prerequisite: 31T:011.

- Online 31T:114g Change title. Title from (Socio-Psychological Aspects of Textiles and Apparel) to "Dress and Human Behavior."
- 207 31T:115g Change title and description. Title from (Apparel Buying and Merchandising) to "Apparel Product Development, Merchandising, and Buying." Description: Application of merchandising and buying concepts and procedures for planning, developing, sourcing, and presenting apparel product lines for identified target markets with regard to pricing, assorting, styling, and timing.
- Online 31T:122 Change title and description. Title from (Product Development and Planning) to "Apparel Product Development, Planning and Design." Description: Apparel products designed and created using a product development process, emphasizing the design process, line development, sourcing materials, costing, and garment production (couture and mass production). Advanced apparel production skills (draping and pattern grading) are further developed within apparel design projects.

129 CERTIFICATE PROGRAM IN LONG TERM CARE

--Revise to read:

The Certificate Program in Long Term Care prepares students for employment with the elderly in long term care facilities in a variety of professional positions. This interdisciplinary program is coordinated in the Department of Design, Family and Consumer Sciences.

Business/Accounting: Required:

Accounting: 120:030	3 hours
Management: 150:153	3 hours

Gerontology Core: Select two of the following

Gerontology Core courses	6 hours
Design, Family and Consumer Sciences: 31F:150*	
Psychology: 400:173*	
Health Promotion and Education: 410:125g	
Sociology: 980:125g*	

Health Care Administration: Required:

Health Promotion and Education: 410:060 (correspondence only)	2 hours
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Select two of the following Health Care

Administration courses	6 hours
Gerontology: 31G:170g*	
Social Work: 450:172g * or 450:173g* or 450:174g*	
	<u>20 hours</u>

*Prerequisites for these courses are as follows:

Prerequisite for 31F:150 (31F:020; 200:030 or 31F:055 or 400:120, 3 hours social science research methods)

Prerequisite for 400:173 (400:001 or equivalent)

Prerequisite for 980:125 (980:001)

Prerequisite for 31G:170 (6 hours Gerontology Core/two of the following

courses: 31F:150, 400:173; 410:125, 980:125)
Prerequisite for 450:172, 450:173 and 450:174 (450:041)

Total number of hours decreases from 23 to 20 hours.

83 FAMILY STUDIES MINOR (restatement of minor)

--Revise to read:

Required:

Design, Family and Consumer Sciences: 31F:020; 31F:030
or 3 hours of social science research methods:
31F:055 or 200:030 or 400:120; 31F:057 12 hours
Three courses from the following 9 hours
Design, Family and Consumer Sciences: 31F:010;
31F:054 31F:077; 31F:130; 31F:145; 31F:150;
31F:153; 31F:155; 31F:157; 31F:162; 31F:177;
31F:184 (3 hrs.)

21 hours

Total number of hours remains the same.

129 GERONTOLOGY CERTIFICATE (restatement of certificate)

--Revise to read:

Gerontology Core:

Select two of the following Gerontology Core courses.6 hours
Design, Family and Consumer Sciences: 31F:150g*
Psychology: 400:173g *
Health Promotion and Education: 410:125g
Sociology: 980:125 *

Electives Social Sciences: Select two of the
following Social Science courses.....6 hours

Design, Family and Consumer Sciences:
31F:055* OR
Psychology: 400:120*
Design, Family and Consumer Sciences:
31F:077 or 31F:162g*
Social Work: 450:173g*
Anthropology: 990:152g*
Humanities and Physical/Health Sciences: Select
two of the following Humanities and
Physical/Health Sciences courses..... 6 hours
Philosophy: 650:050 OR 650:142*
Religion/Philosophy: 640/50:173, 640/50:194

18 hours

*Prerequisites for these courses are as follows:
Prerequisite for 31F:150g (31F:020; 200:030 or 31F:055 or
400:120; 3 hours social science research methods)
Prerequisite for 400:173g (400:001 or equivalent)
Prerequisite for 980:125g (980:001)
Prerequisite for 31F:055 (400:001 or consent of instructor)

Prerequisite for 400:120 (400:001 or equivalent)
Prerequisite for 31F:162g (31F:020)
Prerequisite for 450:173g (450:041)
Prerequisite for 990:152g (990:010)
Prerequisite for 650:142 (one philosophy course)

Total number of hours increases from 15 to 18 hours.

82 GERONTOLOGY MAJOR (restatement of major)

--Revise to read:

This interdisciplinary program is offered jointly by the College of Social and Behavioral Sciences, the College of Education, and the College of Humanities and Fine Arts. It is administered through the Department of Design, Family and Consumer Sciences and under the supervision of the Gerontology Advisory Committee.

We suggest students take 400:001, 450:041, and 980:001 as their Social Sciences area Liberal Arts Core, as these are prerequisites for several of the required courses in this major.

Social Sciences Track

Required:

Research Methods 3-4 hours

Minimum of 3 hours of research methods from:

Design, Family and Consumer Sciences: 31F:030

Leisure, Youth and Human Services: 430:169

Psychology: 400:101

Sociology: 980:108

Gerontology core: 9 hours from the following . . . 9 hours

*Design, Family and Consumer Sciences: 31F:150

*Psychology: 400:173

*Health Promotion and Education: 410:125

*Sociology: 980:125

In consultation with your advisor, choose a total of 21 credits from the following 4 groups, with at least 3 credits required from each group . . . 21 hours

Group I - Humanities and Aging (3-12 Hours)

History: 960:150

Religion: 640:194

Philosophy: 650:050 or 650:142; 650:194

Group II - Behavioral/Social Sciences and Aging (3-12 Hours)

Design, Family and Consumer Sciences: 31F:055; 31F:150*

Psychology: 400:120; 400:173*

Sociology: 980:125*

Anthropology: 990:152

Group III - Physical/Health Sciences and Aging (3-12 Hours)

Design, Family and Consumer Sciences: 31F:057; 310:130

Health Promotion and Education: 410:125*

Physical Education: 420:020

Religion: 640:173

OR

Philosophy: 650:173

Group IV - Related Social Sciences and Aging (3- 12 Hours)

Design, Family and Consumer Sciences: 31F:077 ; 31F:162
Social Work: 450:173; 450:174

*Courses may be used to meet requirements in either
Gerontology Core or Curriculum Cluster, but
not both.

Internship 4 hours

Senior Seminar Design, Family and Consumer Sciences:
31G:193

Design, Family and Consumer Sciences: 31G:195,
Section 1

OR

Health Promotion and Education: 410:168

OR

Sociology: 980:184

Total required in Social Sciences Track 37 hours**

**Due to prerequisites for courses in Group IV, the total number of
credit hours required to complete this major may be 40-41.

Long Term Care Track

Required:

Business Management, Accounting, Business. . . . 10 hours

Select at least 3 credits:

Accounting: 120:030; 120:031.

Select at least 3 credits:

Management: 150:100; 150:101; 150:102; 150:105;
150:153; 150:166.

Gerontology core: 9 hours from the following . . 9 hours

Design, Family and Consumer Sciences: 31F:150.

Psychology: 400:173

Health Promotion and Education: 410:125.

Sociology: 980:125.

Health Care Administration 14 hours

Gerontology: 31G:170g.

Health Promotion and Education: 410:060.

Religion: 640:173

OR

Philosophy: 650:173.

Select two of the following Health Care

Administration courses:

Social Work: 450:172; 450:173, 450:174.

Electives approved by advisor 5 hours

Internship 4-10* hours

Students complete the seminar and either internship:

Senior Seminar Design, Family and Consumer Sciences:

31G:193 or 410:193 or 980:193.

Design, Family and Consumer Sciences:

31G:195, section 2 (maximum 9 hours)

OR

Health Promotion and Education: 410:168 (maximum 9 hours)

OR

Internship Design, Family and Consumer Sciences:

31G:195, section 1 3 hours

OR

Health Promotion and Education: 410:168 3 hours

OR

Sociology: 980:184 3 hours

Total required in Long Term Track 42 hours*

*Students choosing to take the State of Iowa licensing exam may need to complete up to 10 credit hours of internship, for a total of 48 hours for the Long Term Care track.

Total number of hours decreases from 42-51 hours to 42 hours.

82 INTERIOR DESIGN MAJOR (restatement of major)

--Revise to read:

Admission to the University of Northern Iowa with an intended Interior Design major does not guarantee placement in the major due to the limited number of spaces available in the studio facilities.

Students majoring in Interior Design must satisfy the admission requirements including GPA, portfolio review, interview and the completion of specified courses before they can officially declare the major. A copy of the Admission Policy may be obtained from the Department of Design, Family and Consumer Sciences office in Latham Hall. Prior to completion of the admission requirements, students may sign an intent to major in Interior Design and be classified as a prospective (pre)major.

If a major class is dropped after the first week of classes, a student will subsequently be allowed to register to retake that course only after all advanced registration is completed and if openings are still available. A major course may be repeated only once.

The Interior Design major requires a minimum of 124 hours to graduate.

Required:

Design, Family And Consumer Sciences: 31I:061;	
31I:063; 31I:064; 31I:066; 31I:067; 31I:068;	
31I:075; 31I:125; 31I:126; 31I:127; 31I:128;	
31I:129; 31I:164; 31I:184(2 hrs.); 31I:195;	
31T:013	52 hours
Marketing: 130:101	3 hours
Management: 150:080	3 hours
Economics: <u>920:024</u>	3 hours
Two of the following	6 hours
Accounting: 120:030.	
Marketing: 130:106; 130:150; 130:153; 130:166;	
130:178.	
Management: 150:153.	
	<hr/> 67 hours

Total number of hours increases from 64 to 67 hours.

82 TEXTILE AND APPAREL (TAPP) MAJOR (restatement of major)

--Revise to read:

Required:

Design Family and Consumer Sciences: 31T:011; 31T:012; 31T:013; 31T:014; 31T:020; 31T:100; 31T:114; 31T:115; 31T:116; 31T:119 31T:122; 31T:123; 31T:124; 31T:185; 31T:195	45 hours
Design, Family and Consumer Sciences: 31T:015 or 31T:121 or 31T:184 (3 hrs.)	3 hours
Marketing 130:101	3 hours
Economics 920:024	3 hours
Two courses from the following	6 hours
Accounting: 120:030	
Marketing: 130:106; 130:166;130:191g	
Management: 150:153.	
	<hr/> 60 hours

Total number of hours remains the same.

82 Administrative unit name change

--Revise to read:

Design, Textiles, Gerontology, & Family Studies

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GEOGRAPHY

151 Description

--Revise to read:

The major in Geography is available on the thesis and non-thesis options. A minimum of 32 semester hours, including 6 hours 970:299 for thesis research and writing, is required for the thesis option. Students must successfully present a written and oral thesis proposal prior to registration in 970:299. A minimum of 38 semester hours, including 3 hours 970:298 for completion of a research paper, is required for the non-thesis option. A minimum of 17 hours of 200-level course work is required for both the thesis and non-thesis options. **Any 200-level course offered as a graded class must be taken on a graded basis.**

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HISTORY

961:120g New Course. Popular Culture in the United States -- 3 hrs.
This course explores relationships between expressions of popular culture and the development of American values, political ideologies, and unconscious yearnings. Its subjects include popular music, celebrities, literature, art, design, film, and various forms of mass media. Prerequisite: Junior standing.

Online 680:123 Change description (Latin America). Description: Historical, political, social, and cultural elements that form the civilization of Latin America. No credit if student has credit in 780:120.

Online 960:132g Change description (Internship in Historical Studies).
Description: Individualized study and experience in public history settings. Work projects defined by instructor, site supervisor, and student. Attendance at weekly forum mandatory, and term paper reflective of the experience is required. May be repeated for a maximum of 6 hours of credit.

Online 960:299 Change number and description (Research). New number 960:299.
Description: Thesis research and preparation. [Formerly 96B:299].

Online 960:299 Change number and title. New number 960:299. Title from (Research) to "Research." [Formerly 96A:299].

Online 961:014 Change number (United States History to 1877). New number 961:014. [Formerly 960:014].

Online 961:015 Change number (United States History since 1877). New number 961:015. [Formerly 960:015].

Online 961:102g Change number (History of Technology in America). New number 961:102g. [Formerly 960:102g].

Online 961:116g Change number and description (Recent United States History).
New number 961:116g. Description: History of the American people since 1960 with emphasis on domestic affairs. [Formerly 960:116g].

Online 961:122g Change number (African-American History). New number 961:122g.
[Formerly 960:122g].

Online 961:124g Change number (The City in United States History). New number 961:124g. [Formerly 960:124g].

Online 961:130g Change number (History of Iowa). New number 961:130g. [Formerly 960:130g].

- Online 961:131g Change number, title, and description. New number 961:131g. Title from (U.S. History from 1919 to 1945) to "U.S. History from 1929 to 1960." Description: U.S. history from the Great Crash through the Eisenhower Era, emphasizing the Great Depression and New Deal of the 1930s, World War II at home and abroad in the 1940s, and postwar issues including the Cold War and economic prosperity. [Formerly 960:131g].
- Online 961:134g Change number (United States Economic History). New number 961:134g. [Formerly 960:134g].
- Online 961:135g Change number (Indians in American History). New number 961:135g. [Formerly 960:135g].
- Online 961:136g Change number (American Colonial History). New number 961:136g. [Formerly 960:136g].
- Online 961:137g Change number (From Jefferson to Jackson). New number 961:137g. [Formerly 960:137g].
- Online 961:139g Change number (Civil War and Reconstruction). New number 961:139g. [Formerly 960:139g].
- Online 961:140g Change number (History of the West). New number 961:140g. [Formerly 960:140g].
- Online 961:141g Change number (The South in United States History). New number 961:141g. [Formerly 960:141g].
- Online 961:142g Change number (United States Constitutional History). New number 961:142g. [Formerly 960:142g].
- Online 961:143g Change number (United States Labor History). New number 961:143g. [Formerly 960:143g].
- Online 961:144g Change number (History of American Thought). New number 961:144g. [Formerly 960:144g].
- Online 961:145g Change number (Religion in America). New number 961:145g. [Formerly 960:145g].
- Online 961:146g Change number and title (History of Women in the United States) to "United States Women's History". New number 961:146g. [Formerly 960:146g].
- Online 961:147g Change number, title, and description. New number 961:147g. Title from (Foundations of Modern America: The United States, 1877-1919) to "Foundations of Modern America: The United States, 1877-1929." Description: Description and analysis of dramatic social, cultural, economic, and political changes occurring in the U.S. between the close of Reconstruction and the beginning of the Great Depression. [Formerly 960:147g].
- Online 961:150g Change number (Society and Culture in the United States). New

number 961:150g. [Formerly 960:150g].

- Online 962:101g Change number (History of Ancient Greece). New number 962:101g. [Formerly 960:101g].
- Online 962:103g Change number (History of Ancient Rome). New number 962:103g. [Formerly 960:103g].
- 281 962:123g Change number (History of Classical Civilization). New number 962:123g. [Formerly 960:123g].
- Online 962:126g Add Prerequisites. Change number (History of Ireland). New number 962:126g. Prerequisite: Junior standing or consent of instructor. [Formerly 960:126g].
- Online 962:151g Change number (The Ancient Near East). New number 962:151g. [Formerly 960:151g].
- Online 962:152g Change number (Medieval Civilization). New number 962:152g. [Formerly 960:152g].
- Online 962:153g Change number (The Renaissance and Reformation). New number 962:153g. [Formerly 960:153g].
- Online 962:158g Change number (Age of Absolutism and the Enlightenment). New number 962:158g. [Formerly 960:158g].
- Online 962:164g Change number (English History to 1688). New number 962:164g. [Formerly 960:164g].
- Online 962:171g Change number (History of Germany to 1648). New number 962:171g. [Formerly 960:171g].
- Online 963:154g Change number (Military History from Napoleon to the Present). New number 963:154g. [Formerly 960:154g].
- Online 963:155g Change number (Europe from the French Revolution to World War I). New number 963:155g. [Formerly 960:155g].
- Online 963:156g Change number (History of European Popular Culture). New number 963:156g. [Formerly 960:156g].
- Online 963:157g Change number (Great Power Diplomacy from the Congress of Vienna to the Present). New number 963:157g. [Formerly 960:157g].
- Online 963:160g Change number (Europe from World War I to the Present). New number 963:160g. [Formerly 960:160g].
- Online 963:161g Change number, title, and description. New number 963:161g. Title from (Women in Modern European History) to "Modern European Women's History." Description: Examines the political, social, intellectual, and economic history of women and gender relations in Europe from the Enlightenment to the present.

Attention to women's rights movements and the social construction of gender. (Offered Spring). [Formerly 960:161g].

- Online 963:165g Change number (English History since 1688). New number 963:165g. [Formerly 960:165g].
- Online 963:169g Change number (History of Imperial Russia). New number 963:169g. [Formerly 960:169g].
- Online 963:170g Change number (History of Soviet Russia). New number 963:170g. [Formerly 960:170g].
- Online 963:172g Change number (History of Germany Since 1648). New number 963:172g. [Formerly 960:172g].
- Online 963:174g Change number (History of Modern France). New number 963:174g. [Formerly 960:174g].
- Online 963:188g Change number (Modern Central and Eastern Europe). New number 963:188g. [Formerly 960:188g].
- Online 964:127g Change number (Pre-Modern Japan). New number 964:127g. [Formerly 960:127g].
- Online 964:128g Change number (Modern Japan). New number 964:128g. [Formerly 960:128g].
- Online 964:175g Change number (Modern African History). New number 964:175g. [Formerly 960:175g].
- Online 964:176g Change number (Colonial Latin American History). New number 964:176g. [Formerly 960:176g].
- Online 964:178g Change number (Modern Middle East History). New number 964:178g. [Formerly 960:178g].
- Online 964:180g Change number (Latin American History). New number 964:180g. [Formerly 960:180g].
- Online 964:181g Change number (Pre-Modern South Asia). New number 964:181g. [Formerly 960:181g].
- Online 964:182g Change number (Modern South Asia). New number 964:182g. [Formerly 960:182g].
- Online 964:183g Change number (Pre-Modern Chinese History). New number 964:183g. [Formerly 960:183g].
- Online 964:187g Change number (Modern Chinese History). New number 964:187g. [Formerly 960:187g].

97 EUROPEAN STUDIES MAJOR (restatement of major)

--Revise to read:

History

This is an interdisciplinary program offered jointly by the College of Social and Behavioral Sciences and the College of Humanities and Fine Arts, and is under the jurisdiction of the heads of the Departments of History and Modern Languages, and can only be elected as a second major with a major in history or a major in a foreign language (French, German, Portuguese, Russian, and Spanish) or Russian and East European Studies.

Required core courses:

- Philosophy: 650:101 or 650:103 or 650:104 3 hours
 - Humanities: 680:021 3 hours
 - History: one course from Category A (962:101, 962:103, 962:123, 962:126, 962:151, 962:152, 962:153, 962:158, 962:164, 962:171) 963:156; 963:170 (for students in Russian) or 963:172 (for students in German) or 963:174 (for students in French) or 960:186 (Studies in History: Portugal, for students in Portuguese) or 960:186 (Studies in History: Spain, for students in Spanish) or 963:165 (for students with an emphasis in English history) 9 hours
 - Electives: In history, political science, economics or geography--approved by advisor (6 hours must be taken outside of history) 9 hours
 - Foreign Language component* 22 hours
- 22 hours beyond first-year French, German, Portuguese, Russian or Spanish, to include:
- French: 720:101; 720:104; 720:124 or 720:125
 - or
 - German: 740:101; 740:104; 740:123 or 740:150
 - or
 - Russian: 770:101; 770:102; 770:141
 - or
 - Spanish: 780:101; 780:104; 780:123
 - or
 - Portuguese: 790:101; 790:123. To include 4 hours from 790:109; 790:186; 790:191; 790:198.
- One 3-hour course in translation, literature or TESOL/Applied Linguistics.
- One summer's study abroad in Europe required for students in French, German, and Spanish and highly recommended for students in Portuguese and Russian. Required for students emphasizing English history and language: one summer's study abroad in the British Isles.

46 hours

*With permission, students emphasizing the British Isles may substitute Gaelic, Old or Middle English for this requirement.

Total number of hours remains the same.

97 HISTORY MAJOR -- LIBERAL ARTS (restatement of major)

--Revise to read:

Humanities: those 3 hours of Humanities (either

680:021, 680:022, or 680:023) not used to fulfill the 6-hour Liberal Arts Core curriculum requirement in Category 2A.* 3 hours
 History: 960:010 (this course must be taken immediately after major is declared); 961:014; 961:015 (961:014 and 961:015 must be taken by the end of the sophomore year); 960:192 12 hours
 Electives in history: 24 hours

To include:

European history:

Must include one course from Category A (962:101, 962:103, 962:123, 962:126, 962:151, 962:152, 962:153, 962:158, 962:164, 962:171) and one course from Category B (963:154, 963:155, 963:156, 963:157, 963:160, 963:161, 963:165, 963:169, 963:170, 963:172, 963:174, 963:188) 12 hours

Non-Western history:

964:127, 964:128, 964:175, 964:176, 964:178, 964:180, 964:181, 964:182, 964:183, 964:187 6 hours

Electives from two related fields approved by the Department of History (courses must be 100-level). 6 hours
 45 hours

*All History majors must successfully complete Category 2A of the Liberal Arts Core.

Total number of hours remains the same.

97 HISTORY MAJOR -- TEACHING (restatement of major)

--Revise to read:

Required:

Social Science: 900:190; 900:191 4 hours
 Humanities: those 3 hours of Humanities (either 680:021, 680:022, or 680:023) not used to fulfill the 6-hour Liberal Arts Core curriculum requirement in Category 2A.* 3 hours
 History: 960:010 (this course must be taken immediately after major is declared); 961:014; 961:015 (961:014 and 961:015 must be taken by the end of the sophomore year); 960:192 12 hours
 Electives in history: 24 hours

To include:

European history: Must include one course from Category A (962:101, 962:103, 962:123, 962:126, 962:151, 962:152, 962:153, 962:158, 962:164, 962:171) and one course from Category B (963:154, 963:155, 963:156, 963:157, 963:160, 963:161, 963:165, 963:169, 963:170, 963:172, 963:174, 963:188) 9 hours

Non-Western history:

964:127, 964:128, 964:175, 964:176, 964:178, 964:180, 964:181, 964:182, 964:183, 964:187 6 hours

United States history 9 hours
 43 hours

The History major may consider a minor in at least one other social science discipline.

*All History majors must successfully complete Category 2A of the

Liberal Arts Core.

Total number of hours remains the same.

98 HISTORY MINOR (restatement of minor)

--Revise to read:

Electives in history: 18 hours

Note: 961:015 and one European history course from Category B (963:154, 963:155, 963:156, 963:157, 963:160, 963:161, 963:165, 963:169, 963:170, 963:172, 963:174, 963:188) are strongly recommended.

Total number of hours remains the same.

98 HISTORY MINOR -- TEACHING (restatement of minor)

--Revise to read:

Required:

Social Science: 900:190; 900:191 (corequisites) (unless already taken for the major) 0-4 hours

History: 961:014 and 961:015 for teaching endorsement in American history; or two courses in European History -- one from Category A (962:101, 962:103, 962:123, 962:126, 962:151, 962:152, 962:153, 962:158, 962:164, 962:171) and one from Category B (963:154, 963:155, 963:156, 963:157, 963:160, 963:161, 963:165, 963:169, 963:170, 963:172, 963:174, 963:188) for teaching endorsement in world history 6 hours

Electives in history: (For teaching endorsement in American history, students must take an additional 18 hours in United States history; for teaching endorsement in world history, students must take an additional 18 hours in European and non-Western history) 18 hours
24-28 hours

Students whose emphasis is world history must include one non-Western history course and one history course from the following: Middle Ages, Ancient Near East, Greece, or Rome.

Total number of hours remains the same.

152 MAJOR IN HISTORY (restatement of MA degree)

--Revise to read:

The object of this program is to prepare students for either further graduate study (thesis option recommended), teaching at the secondary or community college level (non-thesis option recommended), or history-related careers in government, business or private research

(public history emphasis recommended). As a general rule, students should have a GPA of 3.20 or better for admission to the program. This major is available on the thesis and non-thesis options; a minimum of 30 semester hours is required for either option. The thesis option requires a minimum of 15 hours 200-level course work, including a total of 6 hours of 960:299. The non-thesis option requires a minimum of 12 hours of 200-level course work and the completion of a research paper. Prospective majors must consult with the department head about further requirements prior to beginning their programs.

The Graduate Record Examination (General Test) is not required for admission to the program.

For the thesis option, students must present and gain approval of their thesis proposal by their Faculty Thesis Committee and pass an oral defense of the thesis and, depending on the research emphasis of the thesis, may be required by the thesis chair to demonstrate competency in a second language. For the non-thesis option, students must pass a written comprehensive examination in the primary field and an oral comprehensive examination in both the primary field and a secondary field.

Thesis Option:

Required:

History: 960:280; 960:290	6 hours
Seminar: 960:289 "Seminar in U.S. Historiography" (for students choosing American History as primary field) OR 960:200 level course (for students choosing European or Non-Western History as primary field)	3 hours
Research: 960:299	6 hours
Electives: (May take one course, up to 3 hours, outside the field of history)	<u>15</u> hours
	30 hours

Non-Thesis Option:

Required:

History: 960:280; 960:290	6 hours
Seminar: 960:289 "Seminar in U.S. Historiography" (for all students choosing American History as primary field) OR 960:200-level course (for students choosing European or Non-Western History as primary field)	3 hours
History: 960:200-level course	3 hours
Electives: (May take one course, up to 3 hours, outside the field of history)	<u>18</u> hours
	30 hours

Public History Emphasis

This program is offered on the thesis option only. A minimum of 30 semester hours is required, of which a minimum of 15 hours of 200-level course work, including 6 hours of 960:299 is required. As a prerequisite for admission to this program, student must have a B.A. in history or at least nine credit hours of history.

Successful completion of a final oral comprehensive examination is required.

Required:

History: 960:106; 960:280; 960:290	9 hours
Internship: 960:132	6 hours
Seminar: 960:289 "Seminar in U.S. Historiography" . .	3 hours
Research: 960:299	6 hours
Electives:	<u>6</u> hours
	30 hours

Total number of hours remains the same.

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POLITICAL SCIENCE

- 943:120 New Course. War and Peace -- 3 hrs.
Survey of the nature and causes of war, and the methods states use to achieve security. Examines such issues as arms races, alliances, military technology, and military strategy and their relation to the politics of international relations. Analyzes methods for resolving conflicts and promoting peace.
- 943:129 New Course. International Diplomacy and Negotiation -- 3 hrs.
Examination of causes of mistrust between countries, the use of coercive diplomacy to advance national interests, and international negotiation.
- Online 941:122 Change title and description. Title from (Democracy and Democratization) to "Theories of Democracy." Description: Philosophical foundations of various forms of democracy, including ancient Athens' direct democracy, the liberal representative democracy, and radical democratic movements. Also considers critiques of and threats to democracy.
- Online 941:129 Change description (American Political Thought). Description: Founding theories of American political practice (Jefferson, Madison, and others); analysis of fundamental American political ideals including rights, freedom, and equality.
- Online 941:160 Change title and description. Title from (Classical Political Philosophy) to "Classical Political Theory." Description: The nature of justice, arguments for and against democracy, the foundations of political knowledge, and the nature of political communities, as understood by the thinkers of classical Greece.
- Online 941:161 Change title and description. Title from (Modern Political Philosophy) to "Modern Political Theory." Description: Western political thought from Machiavelli to Nietzsche, including the philosophical foundations for the American system of government (liberal and civic republican thought).
- Online 941:188 Add Prerequisites. Change number, title, and description. New number 941:188. Title from (Issues in Political Thought) to "Seminar In Political Theory." Description: Examines in-depth a particular topic in political theory, e.g. globalization, race, sex & gender. Prerequisites: One other political theory (941) class; junior standing or consent of instructor. [Formerly 941:156].
- Online 942:134 Add Prerequisite. Change description (Legislative Politics). Description: Introduction to the legislative process emphasizing the United States Congress. Focus will be on how Congress makes policy, and legislators' relations with constituents, parties, interest groups and the executive and judicial branches. Prerequisite: 942:014.

- Online 942:144 Change prerequisites (Civil Rights and Liberties). Delete prerequisite.
- Online 942:146 Change description (Law and Politics). Description: Theoretical and empirical examination of the role of appellate courts, especially the U.S. Supreme Court, within the American political system. Examines theories of judicial decision-making, the influence of politics on law and judges, and the impact of court decisions on public policy. To be offered in Spring semesters.
- Online 942:147 Change description (Law and the Courts). Description: Examination of federal and state trial courts, both civil and criminal. Explores normative and empirical theories about the nature of the legal system and the roles of judges, lawyers and litigants. Addresses political issues related to the civil and criminal justice systems. To be offered in Fall semesters.
- Online 942:151 Add Prerequisites. Change description (Modern Presidency). Description: Examination of constitutional, electoral, administrative, and political aspects of the modern American presidency as they have evolved from FDR to the present. Prerequisites: 942:014.
- 279 942:154 Drop Course. Ethics in Public Administration -- 3 hrs.
- Online 942:188g Add "g". Change prerequisites (Seminar in Public Administration). Prerequisites: 942:048; junior standing.
- 280 943:118 Drop Course. International Relations Theory -- 3 hrs.
- Online 943:119g Change title. Title from (International Political Economy) to "Politics of the Global Economy."
- 280 943:128 Drop Course. Comparative Foreign Policies -- 3 hrs.
- 280 944:130 Drop Course. Women in Comparative Perspective -- 3 hrs.
- 119 POLITICAL COMMUNICATION MAJOR (restatement of major)

--Revise to read:

Required core:

Communication: 48C:160; 48C:180 or 48C:183 or	
48C:189	6 hours
Journalism: 48J:002	3 hours
Political Science: 940:014; 943:024	6 hours
History: 960:116	3 hours
Geography: 970:114	3 hours
Internship:	4 hours
Communication: 48C:197 or	
Political Science: 940:181	
Emphases: (select two areas of focus with 6	
hours from each area)	<u>12</u> hours
	37 hours

Focus Area 1: State and Local Public Affairs (6 hours)

Political Science: 942:048; 942:131; 942:132.

Focus Area 2: Political Campaigns and Elections (6 hours)

Political Science: 942:112; 942:134; 942:150; 942:151.

Focus Area 3: International Affairs (6 hours)

Political Science: 943:119 ; 943:143; 943:145.

Geography: 970:116.

Focus Area 4: International Communication (6 hours)

Communication: 48C:151.

Journalism: 48J:151.

Public Relations: 48P:170.

Focus Area 5: Decision-Making (6 hours)

Communication: 48C:128; 48C:148; 48C:178.

Focus Area 6: Political Discourse (6 hours)

Communication: 48C:113; 48C:123; 48C:172; 48C:174.

Sociology: 980:138.

Focus Area 7: Media Analysis (6 hours)

Electronic Media: 48E:021; 48E:131; 48E:139; 48E:141; 48E:161.

Total number of hours change from 36-37 hours to 37 hours.

PSYCHOLOGY

- 400:210 New Course. Organizational Consulting and Change Management -- 1 hr.
General discussion of the nature of organization development and organization change, discussion and developmental exercises in the skills necessary to become a successful consultant/change agent. Prerequisites: Graduate standing in psychology (Industrial/Organizational emphasis) or consent of instructor.
- 400:241 New Course. Research Design -- 3 hrs.
This course covers the planning and execution of psychological research. Topics include research design, measurement, ethical issues, sources of artifact and bias, data evaluation, and interpretation. Prerequisites: 400:239; Graduate standing in psychology or consent of instructor.
- 400:290 New Course. Clinical Practicum -- 2 hrs.
Supervised experience as a psychologist-trainee in an appropriate mental health agency/program. May be repeated for a total of 4 hours. Prerequisites: Graduate standing in psychology (clinical science emphasis); 400:249; 400:262; also 400:270 and 400:272 with a grade of B or better in both courses.
- 400:291 New Course. Practicum in Industrial/Organizational Psychology -- 2 hrs.
Applied experience in the field of Industrial/Organizational Psychology. Students will work in a host organization and demonstrate consulting skills through participation in a regional contest. Prerequisites: Graduate standing in psychology (Industrial/Organizational emphasis).
- Online 400:050 Change prerequisites (Behavior Modification). Prerequisites: 400:001.
- Online 400:118g Change prerequisites (History and Systems of Psychology). Prerequisites: 400:001; junior standing.
- Online 400:120 Change prerequisites (Developmental Psychology). Prerequisites: 400:001.
- Online 400:158g Change prerequisites (Organizational Psychology). Prerequisites: 400:001; junior standing.
- Online 400:160 Change prerequisites (Social Psychology). Prerequisites: 400:001.
- Online 400:173g Change prerequisites (Psychology of Aging). Prerequisites: 400:001; junior standing.
- 216 400:297

Drop Course. Practicum -- 9 hrs.

156 MASTER OF ARTS, MAJOR IN PSYCHOLOGY (restatement of MA degree)

--Revise to read:

This major is available on the thesis option only and requires a minimum of 41-44 semester hours. A minimum of 15 semester hours of 200-level course work is required for the thesis option. GRE examinations are required for all applicants. Individual programs of study will be jointly developed by each student in consultation with the graduate coordinator.

The M.A. program in psychology consists of three emphases: clinical science, for those who wish to pursue doctoral-level study in clinical or counseling psychology or to become masters' level providers of psychological services operating in clinical settings under appropriate supervision; industrial-organizational emphasis, for students interested in pursuing either doctoral-level studies in industrial-organizational psychology or a career in human resources; and social, for students wishing to pursue doctoral study in social and related areas of psychology or careers as master's level data analysts. The program maintains a strong empirical, research-based orientation and seeks to: a) provide students with opportunities to develop skills in research methodology; b) gain advanced knowledge of major areas of scientific psychology; and c) obtain basic competence in skills relevant to these areas. All students are required to complete a thesis for successful completion of this program. It is expected that students will, except under extraordinary circumstances, have a thesis proposal approved by their advisor by the beginning of their second year of study. The program is set up so it should be completed in two full academic years and two summers. Students are strongly encouraged to finish within this time frame.

In addition to meeting general university admission requirements, applicants are also required to submit the following for consideration: a departmental application form; three letters of recommendation, preferably from undergraduate psychology instructors; and Graduate Record Examination (GRE) scores on the general aptitude tests (advanced psychology test scores required only for those applicants who were not undergraduate psychology majors). All materials should be received by the departmental graduate coordinator no later than February 1 to ensure consideration for financial aid for the following academic year or April 30, for consideration for admission to the program.

Required for all students:

Psychology: 400:239	3 hours
Readings: 400:285	2 hours
Thesis Research: 400:299	6 hours
Electives in Psychology	3-9 hours
(determined in consultation with the Graduate Coordinator)	
Emphasis requirements (as listed below)	<u>24-27</u> hours
	41-44 hours

Clinical Science Emphasis:
Required:

Psychology: 400:225; 400:244; 400:246; 400:249; 400:262; 400:270; 400:272; 400:241	20 hours
Clinical Practicum: 400:290	4 hours
Industrial-Organizational Emphasis:	
Required:	
Psychology: 400:149; 400:157; 400:158; 400:232; 400:234; 400:237; 400:264; 400:210	22 hours
Practicum in I/O Psychology 400:291	2 hours
Social Psychology Emphasis:	
Required:	
Psychology: 400:149; 400:162; 400:218; 400:220; 400:261; 400:264; 400:241	21 hours
Psychology: 400:29R	6 hours

Total number of hours remains the same.

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SOCIAL WORK

227 450:264 Change description and prerequisites (Organizational Development & Networking). Description: Review of research literature on organizational development, examination of the processes and problems endemic to human service organizations, staff skill development, and networking. (Offered Fall). Drop Prerequisite.

134 CONFLICT RESOLUTION CERTIFICATE (restatement of certificate)

--Revise to read:

(Conflict and dispute can be viewed on both the macro and micro system levels. It can be intrapersonal or interpersonal, as in the area of marriage or family, or organizational, as in labor relations, racial and ethnic or interpersonal concerns.) The Certificate in Conflict Resolution provides knowledge and understandings of conflict, as well as conflict management or resolution. The Certificate's curriculum is designed for students who are working toward or who have already completed a baccalaureate degree, and whose anticipated careers may provide opportunities for understanding and conducting conflict resolution. Examples of related majors would include (but not be necessarily limited to) Social Work, Sociology, Anthropology, Environmental Science, Criminology, Communication, Business Management, Public Administration, Education, Public Policy and Political Science.

Required:

Social Work/Sociology/Anthropology/Criminology: . . . 3 hours
450/980/990:102
or
900:080
or
48C:148g

Select 4 courses from the lists below 12 hours
(Courses are listed under separate tracks to guide your preference of micro or macro preparation. At least one course must be selected from each track):

Micro systems track courses:

280:070 Human Relations: Awareness/Application
31F:020 Family Relationships
31F:153g Family Relationships in Crisis
450:142g Working with Racial & Ethnic Minorities
450:143g Stress & Stress Management in the Helping Professions
450:163g/980:130g Minority Group Relations
48C:136g Mediation Theory & Process
48C:153g Gender Issues in Communication

Macro systems track courses:

450:041/900:041 Social Welfare: A World View
900:020 Women, Men & Society
943:125g North-South Relations
943:126 Human Rights
944:123 Nationalism

960:157g Great Power Diplomacy from the Congress of
Vienna to the Present
970:100 Environmental Geography
970:116g Geopolitics

15 hours

Choice of courses and subsequent course prerequisites may increase the length of this program. A minimum grade of "C" is required in all courses taken for the certificate.

Total number of hours remains the same.

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SOCIOLOGY, ANTHROPOLOGY AND CRIMINOLOGY

- 980:185 New Course. Criminology Internship -- 3 hrs.
Experiential learning through internship placement in a criminological or criminal justice related agency or position. Requires prior consultation with instructor. Prerequisites: Junior standing; 980:022; 980:025.
- 980:137g New Course. Homicide -- 3 hrs.
This course presents a description, discussion, and evaluation of the various types of homicide. The course further focuses on the characteristics and backgrounds of homicidal offenders. Prerequisites: 980:001; 980:022; junior standing or the approval of the instructor.
- 980:211 New Course. Proseminar -- 1 hr.
The Proseminar provides an introduction to problems, techniques and tools of graduate-level study and research in sociology. Class sessions address various components of graduate school socialization and professionalization.
- 980:251 New Course. Criminological Theory -- 3 hrs.
A comprehensive overview and appraisal of criminological theory. Major theoretical positions (classical, modern, and post-modern; debates surrounding agency, ontology, and epistemology. Development of theory in historical context. Uses and functions of theory. Prerequisite: Graduate standing or consent of instructor.
- 980:253 New Course. Law and Social Control -- 3 hrs.
The sociological study of law and social control: theoretical developments, empirical research, and applications. Prerequisite: Graduate standing or consent of instructor.
- 980:250 New Course. Proseminar: Crime and Society -- 3 hrs.
Examines the influence of social factors ranging from macro-level institutions to micro-level interactions, on criminal behavior and societal reactions to crime. Prerequisite: Graduate status or consent of instructor.
- Online 980:025 Change prerequisites (Criminology). Prerequisites: 980:001, sophomore standing.
- Online 980:112 Add Prerequisites. (White Collar Crime). Prerequisites: 980:001, Junior Standing.
- Online 980:126g Change title and description. Title from (Corrections and Punishment) to "Crime and Punishment." Description: Crime and punishment in American society, social history of punishment, theories of punishment, and how it relates to prison subcultures, crime rates, power relations and cultural values.

- Online 980:127 Change description and prerequisites (Juvenile Delinquency).
Description: An examination of the causes of delinquency in children, focusing on the effects of parenting, youth subcultures, and the media. Youth crimes such as shoplifting and vandalism are also covered. Prerequisites: 980:001, 980:025, junior standing.
- 286 980:129 Drop Course. Comparative Criminology -- 3 hrs.
- 287 980:161g Drop Course. Multivariate Techniques for Social and Behavioral -- 3 hrs.
- Online 980:162g Change title and description. Title from (Politics, Law and Culture: Cross-Cultural Perspectives) to "Crime, Law, and Justice: A Global Perspective." Description: The course explores similarities and diversity in crime, law and social control in a cross-cultural and global perspective. Case studies from traditional and contemporary are examined; theoretical approaches from anthropology, sociology and criminology are emphasized.
- Online 980:169g Change title, description, and prerequisites. Title from (Drug Use and Abuse in Cross-Cultural Perspective) to "Drugs, Crime, and Society." Description: Examines the relationship between crime and drugs in America. Covers the social and political history of drug use and control, the drug war, the lives of drug addicts, drug treatment policies; and possible revisions to America's drug laws. Prerequisites: 980:001, junior standing.
- Online 980:181g Change prerequisites (Seminar in Criminology). Prerequisites: 980:001; junior standing.
- Online 990:137 Change description (Native Central and South America).
Description: Ethnographic survey of sociocultural systems developed by indigenous peoples of South America. Emphasis on relationships that exist among ecological factors, subsistence techniques, social organizations, and belief systems from holistic, comparative, and cross-cultural perspectives. (Same as 680:137).
- 990:151 Change prerequisites (Physical Anthropology: History and Theory). Prerequisites: 990:010; junior standing or consent of instructor.
- Online 990:152g Change prerequisites (Human Biological Variation).
Prerequisites: 990:010; junior standing or consent of instructor.
- Online 990:161 Drop prerequisites (Religion, Magic, and Witchcraft).
- 289 990:169g Drop Course. Drug Use and Abuse in Cross-Cultural Perspective -- 3 hrs.
- Online 990:177

Change description (Language and Culture). Description: Examination of how language use shapes and expresses cultural identity. Implications of linguistic diversity for world view, gender and ethnic identity, education, and cross-cultural communication. (Same as 400:177 and 980:177).

Online 990:164g Change number and prerequisites (Psychological Anthropology).
New number 990:164g. Prerequisites: 990:011 or 400:001; junior standing. [Formerly 990:160g].

MASTER OF ARTS: CRIMINOLOGY (new MA degree)

Major in Criminology

This major is available on the thesis option only. A minimum of 30 semester hours, including 6 hours of 980:299 research, is required. A minimum of 15 hours of 200-level coursework is required. The GRE is not required.

Required:

Research Methodology: 980:201; 980:260; 980:278 . . .	9 hours
Criminology: Proseminar Crime and Society 980:250 .	3 hours
Criminological Theory 980:251	3 hours
Law and Social Control 980:253	3 hours
Individual Readings 980:285	3 hours
Thesis Research 980:299	6 hours
Electives	3-6 hours
must be approved by advisor and graduate coordinator	

30-33 hours

Students entering this program should have taken the following courses or their equivalents: 980:001; 980:025; 980:080.

124 ANTHROPOLOGY MAJOR (restatement of major)

--Revise to read:

Required:

Sociology and Anthropology: 980:080 or 800:072;	
990:010; 990:011; 990:141 or 990:142 or 990:143;	
990:151 or 990:152; <u>990:164</u> or 990:161 or	
990:168; 990:176; 990:177	24 hours
Electives in anthropology	9 hours
Electives in sociology	<u>3</u> hours
	36 hours

Total number of hours remains the same.

133 CERTIFICATE IN CRIMINOLOGY (restatement of Certificate)

--Revise to read:

Required:

Sociology: 980:001; 980:022; <u>980:025</u> ; 980:122;	
980:123; 980:126	<u>18</u> hours
	18 hours

See attached form: Criminology Certificate

Total number of hours remains the same.

125 CRIMINOLOGY MAJOR (restatement of major)

--Revise to read:

Required:

Sociology: 980:001; 980:022; 980:025; 980:080 or 400:102* or 800:072; 980:108; 980:175	18 hours
Six hours from the following (Group 1, Criminal Behavior)	6 hours
Sociology: 980:112; 980:122; 980:127; 980:151; 980:137g (Homicide course).	
Six hours from the following (Group 2, Responses to Crime)	6 hours
Sociology: 980:116; 980:117; 980:119; 980:124; 980:126; 980:131; 980:132.	
Six hours from the following (Group 3, Law and Society)	6 hours
Political Science: 942:144. Sociology: 980:128; 980:153; 980:162/990:162; 980:169; 980:181.	
Three hours from the following (Group 4, Research and Applied Studies) or three hours from Groups 1, 2, or 3	<u>3</u> hours
Sociology: 980:160; 980:178; 980:185.	
	39 hours

*400:102 is 4-hour course.

Note: Students majoring in criminology should take 980:022 and 980:025 before taking any 100-level courses within the major. See attached form for more information.

Total number of hours remains the same.

125 CRIMINOLOGY MINOR (restatement of minor)

--Revise to read:

Required:

Sociology: 980:001; 980:022; 980:025	9 hours
Electives: (9 hours from the following)	9 hours
Sociology: 980:112; 980:116; 980:119; 980:122; 980:124; 980:126; 980:127; 980:128; 980:131; 980:132; 980:151; 980:153; 980:162/990:162; 980:169; 980:181; 980:137 (Homicide).	
	<u>18</u> hours

Note: Not more than 6 semester hours of credit taken within the Sociology teaching major or Sociology minor may be counted for credit on this minor.

Not more than 9 semester hours of credit taken within the Sociology liberal arts or Anthropology majors may be counted for credit on this minor.

Please see attached description of changes to major.

Total number of hours decreases from 21 to 18 hours.

158

New statement

--Revise to read:

The major in Sociology is available on the thesis option only. A minimum of 31 semester hours, including 6 hours of 980:299 research, is required. A minimum of 15 hours of 200-level course work, including no more than 3 hours of 980:285, is required.

The Graduate Record Examination (General Test) is not required for admission to the program.

Required:

Sociology 980:200, 980:201; 980:211; 980:260;	
980:278; 980:280	16 hours
Thesis Research 980:299	6 hours
Electives	<u>9</u> hours
Up to six hours may be taken outside of sociology with approval of Graduate Coordinator.	
	31 hours

A reading knowledge of a foreign language is recommended.

Students entering graduate study in this department should have taken the following courses or should be able to demonstrate competency in them:

Sociology: 980:001; 980:080; 980:108; 980:170.

Total number of hours increases from 30 to 31 hours.

Catalog

Page

WOMEN'S STUDIES

- Online 680:040 Change title and description. Title from (Women's Studies: Introduction) to "Women's and Gender Studies: Introduction." Description: Interdisciplinary study of women's and gender issues from historical and contemporary perspectives, using the methods and theories of feminist scholarship and gender analysis. Topics may include: study of systems of domination and subordination, stereotyping and gender bias, intersections of gender, race, ethnicity, sexuality, class.
- Online 680:289 Change title. Title from (Graduate Seminar in Women's Studies: Global Feminisms) to "Graduate Seminar in Women's and Gender Studies: Comparative Feminist Theories."
- Online 680:290 Change title. Title from (Graduate Seminar in Women's Studies: Library Research Methods) to "Graduate Seminar in Women's and Gender Studies: Library Research Methods."
- Online 900:150 Change title and prerequisites. Title from (Senior Seminar in Women's Studies) to "Senior Seminar in Women's and Gender Studies." Prerequisites: a declared Women's [and Gender] Studies minor; senior standing; or consent of instructor.
- Online 900:195 Change title and prerequisites. Title from (Internship in Women's Studies) to "Internship in Women's and Gender Studies." Prerequisites: Women's [and Gender] Studies minor with completion of two or more core courses; junior standing or consent of instructor.

163 MAJOR IN WOMEN'S STUDIES (restatement of MA program)

--Revise to read:

Major in Women's and Gender Studies

The M.A. in Women's and Gender Studies is a thesis-only program requiring a minimum of 34 semester hours of study; 15 hours of 200-level course work, including 6 hours of xxx:299, is required. Additional non-program hours may be required, if courses on a student's program of study have prerequisites which instructors choose not to waive.

Successful completion of a final written comprehensive examination is required.

The Graduate Record Examination (General Test) is not required for admission to the program.

The Women's and Gender Studies curriculum is designed to meet the needs of students who strive for analytic clarity and rigor in gender-focused research. Students may employ the skills in reflective and critical analysis as well as the broad base of knowledge that they obtain in the program to 1) prepare for a Ph.D. program with a disciplinary or interdisciplinary focus on gender or, 2) enhance leadership skills for

a career in the public or private sector or, 3) satisfy strong intellectual interests and curiosity while pursuing advanced education in the liberal arts.

Through core courses and selected electives, students enrolled in the Master of Arts in Women's and Gender Studies will accomplish several objectives: examine theories concerning the social and historical constructions of gender; explore how gender defines relationships among women, among men, and between men and women; recognize that women's lives have been under-represented in traditional disciplines and investigate previously neglected materials in order to identify women's as well as men's roles in cultural or social endeavors; study, compare, and evaluate an array of disciplinary perspectives on gender, including, but not limited to, cross-cultural, economic, sociological, historical, and literary perspectives; identify intersections of gender with race, class, age, sexual identity, and ethnicity, both locally and globally, both in the present and in the past; and employ new methodological and critical approaches to materials customarily treated in other ways, revising the content and assumptions of particular disciplines to address gender more effectively. Admission to the program is competitive. Detailed information on admissions requirements and procedures may be obtained from the Director of the Graduate Program in Women's and Gender Studies.

Required:

Humanities: 680:289	3 hours
Humanities: 680:290	1 hour
Sociology: 980:171	3 hours
History: 960:146 or 960:161	3 hours
English: 620:206 or	
Philosophy: 650:250	3 hours
Research: xxx:299	6 hours
Research Methodology:	3 hours

With approval of thesis advisor, one course from the following:

- Education, Interdepartmental: 190:305.
- Measurement and Research: 250:301.
- Psychology: 400:239.
- Communication: 48C:113; 48C:180; 48C:183; 48C:189; 48C:222.
- English Language and Literature: 620:161; 620:201.
- History: 960:290.
- Sociology: 980:160; 980:161; 980:165; 980:178 or 990:178; 980:201.

Electives	12 hours
	34 hours

With the approval of the thesis advisor, the student individually designs an elective sequence, selecting courses from the humanities, fine arts, social and natural sciences that best contribute to the student's thesis project.

Total number of hours remains the same.

--Revise to read:

WOMEN'S AND GENDER STUDIES MINOR

Women's and Gender Studies is an interdisciplinary program that places women's and gender issues at the center of inquiry to attain a fuller understanding of our world. Its unique perspective strengthens the abilities of students within any major to critically analyze theory and research while developing an ethics of social responsibility. This program is offered under the jurisdiction and general supervision of the Deans of the Colleges of Social and Behavioral Sciences and Humanities and Fine Arts. For more information, contact the Women's and Gender Studies office, Baker 168, 319-273-7102, or <http://fp.uni.edu/womenstudies>.

Required:

English Language and Literature: 620:128*	3 hours
Humanities: 680:040	3 hours
Social Science: 900:150	1 hour
History: 960:146 or 960:161	3 hours
One of the following	3 hours
Psychology: 400:060 or	
Humanities: 680:160.	

Electives: From the following list of courses chosen in consultation with the Director of the Women's Studies Program for a minimum of 9 hours
22 hours

List of electives:

- Educational Psychology: 200:140; 200:188.
- Design, Family and Consumer Sciences: 31F:010; 31F:020; 31F:057; 31F:150; 31F:153; 31F:157; 31T:114.
- Psychology: 400:173.
- Health Promotion and Education: 410:020; 410:128; 410:162.
- Leisure, Youth and Human Services: 430:030.
- Social Work: 450:041; 450:163; 450:173; 450:194.
- Communication: 48C:108; 48C:110; 48C:113; 48C:122; 48C:123; 48C:146; 48C:151; 48C:153; 48C:160; 48C:189.
- Theatre: 490:160.
- Art: 600:060; 600:180.
- English Language and Literature: 620:121; 620:123*; 620:225.
- Religion: 640:024; 640:162; 640:168.
- Philosophy: 650:152.
- Humanities: 680:010; 680:110; 680:123; 680:128; 680:130; 680:156.
- French: 720:031.
- Science and Science Education: 820:140.
- Social Sciences: 900:020; 900:023; 900:195.
- Political Science: 942:142; 944:130.
- History: 960:131; 960:142; 960:143; 960:150; 960:156; 960:176; 960:180.
- Sociology: 980:105; 980:123; 980:131; 980:135; 980:138; 980:156; 980:171; 980:177.
- Anthropology: 990:011; 990:157; 990:158; 990:161; 990:167.

In courses with multiple sections, the section which indicates a "Women's and Gender Studies Emphasis" will count for the minor.

These electives may also include individual department's readings, topics, experimental courses, internships, and other courses, as well as courses sponsored by the Individual Studies Program that directly relate to Women's and Gender Studies. The electives selected must have the written approval of the director to be filed in the Office of the Registrar before the final completion and approval of the minor. Sections approved for Women's and Gender Studies classes are listed in the front of the Schedule of Classes.

*Additional prerequisites may be required.

Total number of hours remains the same.

TABLE 1 – UNIVERSITY OF NORTHERN IOWA
BOARD OF REGENTS DISTANCE EDUCATION STUDY
PROGRAM OFFERINGS
NOVEMBER 2005

PROGRAMS	# of students	Delivery Methods (select all that apply; indicate P for primary mode)										Do students have to fulfill a residency (on campus) requirement for this program?			
		Face-to-face (FTF)			WWW still media	WWW streaming media	GIS*	Audio tape/CD	Video tape/VCD/ DVD	ICN	Access Grid	Live digital capture (Elluminate/ Camtasia)	LMS* (WebCT)	Yes	No
		Off-campus	Location	On- campus											
MBA - Master of Business Administration	29 W'loo 15 HK	P	Waterloo, Hong Kong		X									X	
MA -Communication Education	9			X	X			X	P			X		X	
MAE - Early Childhood Education	24				X			X	P			X		X	
MAE - Educational Leadership – Principalship	42			X	X			X	P			X	X		
MAE - Educational Leadership – Principalship – UEN	46			X	X			X	P			X		X	
MA - Educational Technology	12				X			X	P			X	X		
MAE - Elementary Education	16				X			X	P			X		X	
MA - English	11	P	Cedar Rapids		X									X	
MA - English – ESL/TESOL (Endorsement)	9				X			X	P			X		X	
	16														
MA - Library Science	69			X	X			X	P			X	X		
MAE - Literacy Education	25				X			X	P			X		X	
MA - Mathematics-Secondary School	13			X	X			X	P			X	X		
MAE - Middle Level Education	12				X			X	P			X		X	
MA - Middle School Mathematics	7			X	X			X	P			X	X		
MM - Music Education	9			X	X			X	P			X	X		

TABLE 1 – UNIVERSITY OF NORTHERN IOWA
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PROGRAM OFFERINGS
NOVEMBER 2005

PROGRAMS	# of students	Delivery Methods (select all that apply; indicate P for primary mode)										Do students have to fulfill a residency (on campus) requirement for this program?			
		Face-to-face (FTF)			WWW still media	WWW streaming media	GIS*	Audio tape/CD	Video tape/VCD/ DVD	ICN	Access Grid	Live digital capture (Elluminate/ Camtasia)	LMS* (WebCT)	Yes	No
		Off-campus	Location	On- campus											
MAE - Professional Development	38	P	Cedar Rapids, Waterloo		X							X		X	
EdS - School Psychology <i>Offered jointly with U of Iowa</i>	6				X			X	P			X		X	
MA - Science Education	15			X	X			X	P			X	X		
Certificate - Advanced Studies Certificate in the Superintendency	40				X			X	P			X		X	
BA - Elementary Education	46	P	Carroll		X			X	X			X		X	
BA - Technology Management	12	P	Carroll		X			X	X			X		X	
Bachelor of Liberal Studies (BLS)	205	X		X		X	P	X	X			X			

*GIS – guided independent study; LMS = learning management system

- ◆ Racial/ethnic minority student enrollment by residence as a percentage of residence enrollment and total enrollment (fall data).

FALL 2004 Enrollment Report	Percentage of racial/ethnic minority enrollment by residence as a percentage of resident, non-resident ¹ , and total enrollment ¹
University of Iowa	R = 8.2%; NR = 13.0%; T = 9.7%
Iowa State University	R = 6.8%; NR = 14.7%; T = 8.5%
University of Northern Iowa	R = 4.5%; NR = 41.3%; T = 6.5%

- ◆ Racial/ethnic minority tenured/tenure track faculty as a percentage of total tenured/tenure track faculty (fall data).

FALL 2004 Diversity Report	Percentage of racial/ethnic minority tenured/tenure track faculty as a percentage of total tenured/tenure track faculty
University of Iowa	14.6%
Iowa State University	17.7%
University of Northern Iowa	12.6%

- ◆ Women tenured/tenure track faculty as a percentage of total tenured/tenure track faculty (fall data).

FALL 2004 Diversity Report	Percentage of women tenured/tenure track faculty as a percentage of total tenured/tenure track faculty
University of Iowa	27.4%
Iowa State University	26.7%
University of Northern Iowa	40.2%

- ◆ One-year retention rate of new, direct-from-high-school freshmen (fall data)

FALL 2004 Graduation/Retention Rates Report	One-year retention rate of new, direct-from-high-school freshmen (entering class of Fall 2003)
University of Iowa	83.2%
Iowa State University	84.6%
University of Northern Iowa	81.4%

- ◆ Six-year graduation rate of new, direct-from-high-school freshmen (fall data).

FALL 2004 Graduation/Retention Rates Report	Six-year retention rate of new, direct-from-high-school freshmen (entering class of Fall 1998)
University of Iowa	66.2%
Iowa State University	66.5%
University of Northern Iowa	64.3%

¹Does not include international students because their race/ethnicity is not applicable.