

COLLEGE OF ARTS AND SCIENCES
COURSE AND CURRICULUM CHANGES

Approved at the College Course and Curriculum Meeting

April 4, 2013
Eisenhower 015

4:00 p.m.

Undergraduate/Graduate
Expedited and Non-Expedited

Contact Person: Joseph Aistrup
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Units outside the College of Arts and Sciences affected:

Please provide the sponsors of a proposal change with any information regarding fiscal or programmatic impact on your department, program or students:

College of Agriculture, College of Architecture and Design, College of Business Administration, College of Education, College of Engineering, College of Human Ecology, and departments in the College of Arts and Sciences

EXPEDITED COURSE PROPOSALS

Courses Numbered 000-599

Dean of Arts and Sciences

FROM: ~~DAS 407~~ – Senior Research in Latin American Studies. (3) I, II, S. ~~Note: May be repeated.~~ K-State 8: Global Issues and Perspectives.

TO: DAS 507 – Senior Research in Latin American Studies. (3) I, II, S. Independent research product under supervision by director of Latin American Studies. K-State 8: Global Issues and Perspectives.

RATIONALE: For the capstone course in the secondary major in Latin American Studies, a 500-level number would be more appropriate.

IMPACT: None

EFFECTIVE DATE: Fall 2013

FROM: ~~DAS 425~~ – Senior Research in International Studies. (3) I, II. A research paper or project on an international topic. K-State 8: Global Issues and Perspectives.

TO: DAS 525 – Senior Research in International Studies. (3) I, II, S. A research paper or project on an international topic. K-State 8: Global Issues and Perspectives.

RATIONALE: For the capstone course in the secondary major in International Studies, a 500-level number would be more appropriate.

IMPACT: None

EFFECTIVE DATE: Fall 2013

English

FROM: ~~ENGL 030~~ – Writing Laboratory. (1-4) I, II, S. ~~Laboratory practice in writing for all students who need review in fundamentals of composition. Especially for students who have difficulty in meeting standards in Expository Writing I and II, but also designed to assist students who desire to improve their composition skills. Hours are not applicable toward degree requirements.~~

TO: ENGL 170 – Writing Laboratory. (1-3) I, II, S. Laboratory practice in writing for all students.

RATIONALE: English proposes to change the number of ENGL 030 to reflect its practice and content. The current number suggests that it is a remedial English course, which is not the case. Writing Laboratory is more analogous to other lab courses in the College that supplement and extend the work done in the root class. Writing Laboratory also enrolls students who want extra support and practice writing.

IMPACT: None

EFFECTIVE DATE: Fall 2013

NON-EXPEDITED COURSE PROPOSALS

Courses Numbered 000-599

Art

ADD: ART 102 – Ceramics for Non-majors. (3) I, II, S. Introduction to working in clay for non-art majors. Emphasis on historical and contemporary movements and trends in the greater ceramics and art fields. Pr.: None. K-State 8: Aesthetic Interpretation; Historical Perspectives.

RATIONALE: We have offered this class as a special topics course for several semesters with high enrollment. We would like to offer it indefinitely under its own course number.

IMPACT: None

EFFECTIVE DATE: Fall 2013

ADD: ART 103 – Jewelry Design and Processes for Non-Majors. (3) I, II. Students without a background in art will be introduced to basic forming and construction techniques and design principles for jewelry and small-scale metal objects. Pr.: None. K-State 8: Aesthetic Interpretation.

RATIONALE: This course has been taught as a special topics class for five semesters and has continued student interest.

IMPACT: None

EFFECTIVE DATE: Fall 2013

FROM: ~~ART 225~~ – Figure Drawing I. (3) I, II. Sustained drawings of the human figure using a variety of media; introduction to human anatomy used by artists. Note: Six hours lab. Pr.: ART 210. K-State 8: Aesthetic Interpretation.

TO: ART 325 - Figure Drawing I. (3) I, II. Sustained drawings of the human figure using a variety of media; introduction to human anatomy used by artists. Note: Six hours lab. Pr.: ART 210. K-State 8: Aesthetic Interpretation.

RATIONALE: There are three pre-requisites for ART 225. These are ART 100, ART 190 and ART 210. So, it seems reasonable that this be a 300 level class.

Also, Figure II is ART 610, so it makes sense that ART 325 be a pre-requisite to ART 610 rather than jumping from a 200 to a 600-level class.

IMPACT: None

EFFECTIVE DATE: Fall 2013

ADD: ART 415 – Undergraduate Art Studio Assistant in Faculty Research. (1-3) I, II S. Students will assist faculty with creative research. Students will gain invaluable firsthand skills and insight of professional art practices. Research activities include but are not limited to production of artwork, preparation of art making materials, exhibition and curatorial research, and professional practice. Pr.: None. K-State 8: Aesthetic Interpretation; Ethical Reasoning and Responsibility.

RATIONALE: Currently offered as a special topics course, Studio Research Assistant is consistently offered by several Art department faculty with great student interest. The Art department faculty intends to offer this course indefinitely, thus, it has become apparent that it should have its own course number.

IMPACT: None

EFFECTIVE DATE: Fall 2013

Biology

FROM: BIOL 500 – Plant Physiology. (4) I. Detailed consideration of physiological processes of higher plants. Three hours lecture ~~and three hours lab~~ a week. Pr.: BIOL 198 and BIOCH 265 or another course in organic chemistry.

TO: BIOL 500 – Plant Physiology. (3) I. Detailed consideration of physiological processes of higher plants. Three hours lecture a week. Pr.: BIOL 198 and BIOCH 265 or another course in organic chemistry.

RATIONALE: The instructor (Jesse Nippert) wants to change the format of BIOL 500 for several reasons: first, enrollment in this course has increased steadily over the past 5 years, currently with 34 enrolled students this semester. With 30+ students, it is more difficult to design meaningful lab experiments that engage the students. Currently the students work in groups of ~4, and typically only 1 or 2 persons from each group is actually engaged in the lab. Second,

there recently has been greater enrollment from Master's students in the College of Agriculture. More experienced graduate students don't need the lab section professionally and are much less interested in the lab than the lecture. Finally, there are some undergraduate non-Biology-majors with little laboratory experience or interest. With approval to assign separate course numbers to the lecture and the laboratory section, the instructor will be able to develop a more meaningful, hands-on plant physiology laboratory for the students. In addition, it will provide a mechanism for students only interested in the lecture to avoid taking the laboratory.

IMPACT: None

EFFECTIVE DATE: Fall 2013

ADD: BIOL 501 – Plant Physiology Lab. (1) I. Lab related to physiological processes of higher plants. Three hours of lab a week. Pr.: Concurrent or previous enrollment in BIOL 500.

RATIONALE: BIOL 501 is the former lab portion of BIOL 500 Plant Physiology. The instructor (Jesse Nippert) wants to change the format of BIOL 500 for several reasons: first, enrollment in this course has increased steadily over the past 5 years, currently with 34 enrolled students this semester. With 30+ students, it is more difficult to design meaningful lab experiments that engage the students. Currently the students work in groups of ~4, and typically only 1 or 2 persons from each group is actually engaged in the lab. Second, there recently has been greater enrollment from Master's students in the College of Agriculture. More experienced graduate students don't need the lab section professionally and are much less interested in the lab than the lecture. Finally, there are some undergraduate non-Biology-majors with little laboratory experience or interest. With approval to assign separate course numbers to the lecture and the laboratory section, the instructor will be able to develop a more meaningful, hands-on plant physiology laboratory for the students. In addition, it will provide a mechanism for students only interested in the lecture to avoid taking the laboratory.

IMPACT: None

EFFECTIVE DATE: Fall 2013

FROM: BIOL 513 – Physiological Adaptions of Animals. (3) I. Integration of physiological mechanisms as the basis for adaptive responses of animals to different environments. Three hours lecture a week. Pr.: BIOL 201; and a course in organic chemistry or biochemistry.

TO: BIOL 513 – Physiological Adaptions of Animals. (4) I. Integration of physiological mechanisms as the basis for adaptive responses of animals to different environments. Three hours lecture and three hours lab a week. Pr.: BIOL 201; and a course in organic chemistry or biochemistry.

RATIONALE: Currently it is required that all students who take BIOL 513 concurrently enroll in the laboratory, BIOL 514. The change to having the lecture and laboratory as one course will reduce confusion about this requirement.

IMPACT: None.

EFFECTIVE DATE: Fall 2013

DROP: BIOL 514 – Physiological Adaptions of Animals Laboratory. (1) I. One three-hour lab a week. Pr.: Concurrent enrollment in BIOL 513.

RATIONALE: Currently it is required that all students taking BIOL 514 Phys Adap of Animals Laboratory also take BIOL 513 Animal Phys Adap of Animals lecture concurrently. BIOL 513 and BIOL 514 are being combined as one course to reduce confusion about this requirement.

IMPACT: None

EFFECTIVE DATE: Fall 2013

English

FROM: ENGL 476 – American English. (3) I, II. Systematic study of the English language as it has been and is spoken in the continental United States. Topics may include Tall Talk, Americanisms, Colonial and Modern dialects, and American dictionaries. Pr.: ENGL 200 or 201. K-State 8: None

TO: ENGL 476 – American English. (3) I, II. Systemic study of the English language as it has been and is spoken in the continental United States. Topics may include Tall Talk, Americanisms, Colonial and Modern dialects, and American dictionaries. Pr.: ENGL 200 or 201. K- State 8: Human Diversity within the US.

RATIONALE: The Department of English is adding K-State 8 tags to its language courses. The courses were not added earlier, because we did not have a linguist on staff. Having now hired a linguist, we can consult with her about how to tag our untagged linguistics courses.

IMPACT: None

EFFECTIVE DATE: Fall 2013

Journalism and Mass Communication

ADD: MC 546 – Sports, Advertising and Global Culture. (3) II intersession. The relationship between advertising and the rise of specific global entertainment and sporting events. The class employs cultural theory to examine the rise in direct-to-consumer content delivery and the use of social media to boost viewer involvement. Pr.: Junior standing recommended. K-State 8: Global Issues and Perspectives; Historical Perspectives.

RATIONALE: As more and more content moves online, the global relationship between content deliverer and advertising agencies will become more critical. To best understand and predict the paths ahead, we should look to our recent past and apply a theoretical construct – specifically one dealing with culture – to more clearly identify potential future impacts. This class will explore the relationship between advertising and the rise of specific global entertainment and sporting events, such as the Super Bowl or the World Cup. Included will be examples of successful and not-so-successful partnerships. The class will also examine the rise in direct-to-consumer content delivery and the use of social media to boost viewer involvement. Longer-term estimate of trends will attempt to predict where the relationship between advertising, culture, and the entertainment/sports industry will be in 10 years.

IMPACT: We anticipate no impact on other academic units on campus.

EFFECTIVE Date: Spring 2014

Music

ADD: MUSIC 249 – Introduction to Music of the World. (3) I, II. This course will develop listening skills and an understanding of the meaning of music from around the world. Students will discover how music can be used as a form of human expression, and also reflect the culture in which it was created. Due to the non-Western focus, cultural background and perspective will be provided for each population discussed including the influence of music within and upon societies and its members highlighting issues of human diversity outside the U.S. K-State 8: Global Issues and Perspectives; Aesthetic Experience.

RATIONALE: It is envisioned as a survey course that will fulfill general education credit requirements for students outside the school of Music, Theatre, and

Dance. This provides non-music majors the opportunity to develop a workable knowledge of basic music vocabulary, but also exposure to musical traditions outside their own. It provides the additional benefit of cultural context for these musics, exposing students to traditions and beliefs of other societies.

IMPACT: None

EFFECTIVE DATE: Fall 2013

Philosophy

ADD: PHILO 501 – Perspectives on Science. (3) I, II. Provides historical, philosophical, and sociological perspectives on science, its methods and products, the social processes by which its methods are deployed and its products used, and the ways in which its results become imbued with cultural meaning.

RATIONALE: This course will serve primarily science and engineering students, who in their careers will face decisions about what projects to pursue, what methods to use, and how to apply results. These are social as well as scientific decisions which require creativity and an understanding of both social and scientific values. The course will provide a chance to better understand both the social context that makes science as an institution possible, the larger network of social institutions which science influences, and the values that underlie both the doing of science and the reception of science and technology among different constituencies in broader society. While it is targeted towards science and engineering majors, it will be open to others upon approval.

IMPACT: College of Arts and Sciences and all other colleges on the Manhattan campus except for Vet Med and Architecture and Design. No impact for the College of Technology and Aviation. The College of Engineering, Education, Agriculture, Business Administration, Human Ecology, and Architecture and Design have all expressed support.

EFFECTIVE DATE: Fall 2013

NON-EXPEDITED COURSE PROPOSALS

Courses Numbered 600-999

Sociology, Anthropology, and Social Work

FROM: ~~ANTH 677~~ – Research Methods in Digital Ethnography. (3) I, II. A hands-on exploration of the uses of digital technology for ethnographic research and representation.

TO: ANTH 777 – Research Methods in Digital Ethnography. (3) II. A hands-on exploration of the uses of digital technology for ethnographic research and representation.

RATIONALE: This course has been offered for 7 years. During this time, several graduate students have taken the course as it is the only course on campus that offers training in qualitative ethnographic research methods with an emphasis on using digital tools from the early phases of observational data gathering through data analysis and on to the final representation. However, as a 600-level course, some graduate students who felt like they needed the course were unable to include it on their plan of study because it would not count toward their degree. Furthermore, raising the course to the 700 level would place the course in its rightful place among the other methods courses we offer: ANTH 792- Linguistic Field Methods, ANTH 730 – Archaeological Field Methods, and ANTH 790 – Ethnographic Research Methods (currently under review).

IMPACT: Graduate students in other fields who need some background in Digital Ethnography will likely add this to their plan of study. For example, I have had requests from students pursuing Ed.D.s in Education, PhD in Computer Science, and Masters Degree candidates in Communications as well as students in other Arts & Sciences fields interested in pursuing a career related to Digital Humanities.

EFFECTIVE DATE: Spring 2014

NON-EXPEDITED CURRICULUM PROPOSALS

Art

BFA in Art

FROM:

The bachelor of fine arts degree is a professionally oriented undergraduate degree in art. It is designed primarily for those planning to become professional artists, artist-teachers, or art therapists. Greater emphasis is placed on actual practice in the creative art disciplines.

The degree is considered the appropriate preparation for the master of fine arts degree, which is recognized as the terminal degree in studio arts, and for a master's degree in art therapy, which is required for registration as an art therapist. The BFA in art is a four-year, 124-credit hours program with concentrations possible in painting, sculpture, ceramics, graphic design, printmaking, drawing, metalsmithing and jewelry, illustration, digital arts, and photography.

Basic requirements (46 credit hours)

Social Sciences – 6 hours
 Humanities – 9hours
 Philosophy or mathematics – 3 hours
 2 Sciences, one with a lab – 7-9 hours
 General electives – 13-14 hours

Art courses (78 credit hours)

Core – 40 credit hours
 Major – 23 credit hours

Bachelor's degree requirements

Concentration Admission Review

Formal evaluation prior to admission to a chosen area of concentration is required upon completion of Department of Art foundation core. A display of selected completed foundation core work will occur during the semester when the last of nine

TO:

The bachelor of fine arts degree is a professionally oriented undergraduate degree in art. It is designed primarily for those planning to become professional artists, artist-teachers, or art therapists. Greater emphasis is placed on actual practice in the creative art disciplines.

The degree is considered the appropriate preparation for the master of fine arts degree, which is recognized as the terminal degree in studio arts, and for a master's degree in art therapy, which is required for registration as an art therapist. The BFA in art is a four-year, 124-credit hours program with concentrations possible in painting, sculpture, ceramics, graphic design, printmaking, drawing, metalsmithing and jewelry, digital arts, and photography.

Basic requirements (46 credit hours)

Social Sciences – 6 hours
 Humanities – 9hours
 Philosophy or mathematics – 3 hours
 2 Sciences, one with a lab – 7-9 hours
 General electives – 13-14 hours

Art courses (78 credit hours)

Core – 40 credit hours
Area of Concentration – 23 credit hours
Art Electives – 15 credit hours

Bachelor's degree requirements

Area Concentrations

Ceramics Concentration – 23 hours

ART 265 – Ceramics 1 (3)
ART 565 – Ceramics II (must be taken 3 times) (9)
ART 665 - Ceramics III (must be taken 3 times) (9)
ART 410 – BFA Exhibition (2)
ART 565 or 665 may be substituted with ART 430 upon approval of Ceramics professors.

Digital Arts Concentration – 23 credit hours

ART 290 – Type and Design (3)
ART 330 – Digital Techniques in Visual Art (3)

foundation courses (25 credit hours) will be completed. Visual course work must meet faculty approval, and upon passing the concentration admission review students may begin BFA study in the area of concentration they have selected.

An additional review opportunity is allowed after an unsuccessful attempt to pass the concentration admission review. The second attempt must be made at the end of the semester following an unsuccessful effort to pass the concentration admission review. The second attempt may, if so requested, occur in an area different from the first unsuccessful attempt.

Students not successful in a second attempt to pass the concentration admission review will be advised to consider the BA degree in art. For complete details on the concentration admission review, students may get a copy of the requirements from the Department of Art advisor.

The major requirements are as follows: (78 credit hours)

Foundation core

- ~~Two-dimensional course choice~~ **Credits:** (3)
- ~~Three-dimensional course choice~~ **Credits:** (3)
- ~~Two- or three-dimensional course choice~~ **Credits:** (3) or, while proceeding with concentration admission requirements, enrollment in one second semester area of concentration course is allowed with permission of instructor.
- ART 100 - 2- Dimensional Design **Credits:** (3)
- ART 105 - Art Careers Seminar **Credits:** (1)
- ART 190 - Drawing I **Credits:** (3)

ART 575 – Web Design (3)
ART 410 – BFA Exhibition (2)

Choose 2 classes from the following courses for a total of 6 credits:

ART 582 – Internships in Visual Arts and Design
ART 567 – Digital Photo
ART 608 – Special Topics: Digital classes
ART 623 repeated for a 3rd time
ART 575 repeated for a 2nd time
ART 616 – Animation

Drawing Concentration – 23 credit hours

ART 350 – Drawing III (must be taken twice) (6)
ART 610 – Figure II (3)
ART 600 – Advanced Drawing (3)
ART 600 or 610 or both may be repeated for the remaining credits of (9)
ART 410 – BFA Exhibition (2)

Graphic Design Concentration – 23 credit hours

ART 290 – Type and Design (3)
ART 310 – Graphic Design Studio I (3)
ART 285 – Illustration (3)
Or
ART 295 – Photography (3)
ART 400 p Computer Imaging (3)
ART 575 – Web Design (3)
ART 576 Advanced Type (3)
ART 580 – Senior Studio (3)
ART 410 BFA Exhibition (2)

Metalsmithing and Jewelry Concentration – 23 credit hours

ART 270 – Metals I (3)
ART 655 – Metals Techniques (must be taken 3 times) (9)
ART 680 – Metals Workshop (take multiple times for a total of 9 credits) (9)
ART 410 BFA Exhibition (2)

ART 655 or 680 may be substituted with ART 450 upon approval of Metals professors.

Painting Concentration – 23 credit hours

ART 245 – Introduction to Oil (3)
ART 220 – Watermedia (3)
ART 561 – Intermediate Oil (3)
ART 570 Mixed Media (3)
ART 650 – Advanced Painting (must be taken 3 times) (9)
ART 410 – BFA Exhibition (2)

Photography Concentration – 23 credit hours

ART 295 – Photo I (3)

<ul style="list-style-type: none"> • ART 200 - 3- Dimensional Design Credits: (3) • ART 210 - Drawing II Credits: (3) • ART 225 - Figure Drawing I Credits: (3) <p>Additional requirements</p>	<p><u>ART 330 – Digital Techniques (3)</u> <u>ART 563 – Photo II (must be taken twice) (6)</u> <u>ART 567 – Digital Photo (must be taken twice) (6)</u> <u>ART 626 – Advanced Study in Photography (3)</u> <u>ART 410 – BFA Exhibition (2)</u></p> <p>Printmaking Concentration – 23 credit hours <u>ART 235 – Printmaking I (3)</u> <u>ART 635 – Advanced Printmaking (must be taken 4 times) (12)</u> <u>ART 530 pr ART 635 must be taken 2 times (6)</u> <u>ART 410 – BFA Exhibition (2)</u></p> <p>Sculpture Concentration – 23 credit hours <u>ART 230 – Sculpture I (3)</u> <u>ART 645 – Sculpture II (must be taken 3 times) (9)</u> <u>ART 660 – Sculpture III (must be taken 3 times) (9)</u> <u>AFT 410 – BFA Exhibition (2)</u></p> <p><u>ART 645 or 660 may be substituted with ART 465 upon approval of Sculpture professors.</u></p> <p>Bachelor of Fine Arts degree requirements</p> <p>Concentration Admission Review</p>
<hr/> <ul style="list-style-type: none"> • Major concentration Credits: (21) • Art electives Credits: (45) • ART 410 - BFA Exhibition or Portfolio Presentation Credits: (2) • Art History Credits: (15) • ART 195 - Survey of Art History I Credits: (3) • ART 196 - Survey of Art History II Credits: (3) • Art History elective Credits: (3) • 20th century art history requirement Credits: (6) <p>Choose two from the following:</p>	<hr/> <p>Formal evaluation prior to admission to a chosen area of concentration is required upon completion of Department of Art foundation core. A display of selected completed foundation core work will occur during the semester when the last of nine foundation courses (25 credit hours) will be completed. Visual course work must meet faculty approval, and upon passing the concentration admission review students may begin BFA study in the area of concentration they have selected.</p> <p>An additional review opportunity is allowed after an unsuccessful attempt to pass the concentration admission review. The second attempt must be made at the end of the semester following an unsuccessful effort to pass the concentration admission review. The second attempt may, if so requested, occur in an area different from the first unsuccessful attempt.</p>
<hr/> <ul style="list-style-type: none"> • ART 545 - Twentieth Century Art History I Credits: (3) • ART 550 - Twentieth Century Art History II Credits: (3) • ART 602 - Twentieth Century Art History III Credits: (3) • ART 603 - Twentieth Century Art History IV Credits: (3) <p>Notes</p> <hr/> <p>*Two-dimensional courses: Type and Design, Oil Painting I, Photography in Art, Printmaking I, Water Media I.</p> <p>**Three-dimensional courses: Ceramics I, Metalsmith and Jewelry, Sculpture I.</p> <p>Studios, laboratories, and equipment for creative work are provided and adequate to the needs of</p>	<hr/> <p>Students not successful in a second attempt to pass the concentration admission review will be advised to consider the BA degree in art. For complete details on the concentration admission review, students may get a copy of the requirements from the Department of Art advisor.</p> <p>The major requirements are as follows: (78)</p>

the art areas. Student work may be retained at the discretion of the faculty for an indefinite period of time for instructional and exhibition purposes.

~~***Any of the courses listed above for 2D or 3D course choice.~~

Total hours required for graduation (124 credit hours)

credit hours)

Foundation core

- ART 100 - 2- Dimensional Design **Credits:** (3)
- ART 105 - Art Careers Seminar **Credits:** (1)
- ART 190 - Drawing I **Credits:** (3)
- ART 200 - 3- Dimensional Design **Credits:** (3)
- ART 210 - Drawing II **Credits:** (3)
- Choose one course: ART 265 Ceramics I or ART 270 – Metals I or ART 230 – Sculpture I **Credits:** (3)

Choose three (9 credits) from the following course choices:

ART 220 Water Media

ART 230 – Sculpture I

ART 235 – Printmaking I

ART 245 – Oil Painting I

ART 265 – Ceramics I

ART 270 – Metals I

ART 290 – Type and Design

ART 295 – Photography in Art

ART 330 – Digital Processes

ART 325 – Figure Drawing I

Additional requirements

- Area concentration **Credits:** (23)
- Art electives **Credits:** (12-15)
- ART 325 – Figure Drawing I Credits (3) – this must be an Art Elective if it is not taken in the Core Foundation.
- ART 410 - BFA Exhibition or Portfolio

	<p>Presentation Credits: (2)</p> <ul style="list-style-type: none"> • Art History Credits: (15) • ART 195 - Survey of Art History I Credits: (3) • ART 196 - Survey of Art History II Credits: (3) • Art History elective Credits: (3) • 20th century art history requirement Credits: (6) <p>Choose two from the following:</p> <hr/> <ul style="list-style-type: none"> • ART 545 - Twentieth Century Art History I Credits: (3) • ART 550 - Twentieth Century Art History II Credits: (3) • ART 602 - Twentieth Century Art History III Credits: (3) • ART 603 - Twentieth Century Art History IV Credits: (3) <p>Notes</p> <hr/> <p>Studios, laboratories, and equipment for creative work are provided and adequate to the needs of the art areas. Student work may be retained at the discretion of the faculty for an indefinite period of time for instructional and exhibition purposes.</p> <p>Total hours required for graduation (124 credit hours)</p>
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RATIONALE: The nine concentrations listed here have been in place for a long time but never appeared in the catalog so I am listing them in the “To” column so you can now add them to the catalog.

IMPACT: None

EFFECTIVE DATE: Fall 2013

Biology

Fisheries, Wildlife and Conservation Biology

FROM:

TO:

<p>Fisheries ecology and management option</p> <ul style="list-style-type: none"> • BIOL 513 - Physiological Adaptations of Animals Credits: (3) and • BIOL 514 - Physiological Adaptations of Animals Laboratory Credits: (1) • BIOL 542 - Ichthyology Credits: (3) • BIOL 612 - Freshwater Ecology Credits: (4) • BIOL 682 - Fish Ecology Credits: (3) • BIOL 696 - Fisheries Management and Techniques Credits: (4) • ENTOM 680 - Aquatic Entomology Credits: (3) <p>Wildlife ecology and management option</p> <ul style="list-style-type: none"> • BIOL 513 - Physiological Adaptations of Animals Credits: (3) and • BIOL 514 - Physiological Adaptations of Animals Laboratory Credits: (1) • BIOL 543 - Ornithology Credits: (3) • BIOL 544 - Mammalogy Credits: (3) • BIOL 551 - Taxonomy of Flowering Plants Credits: (4) • BIOL 684 - Wildlife Management and Techniques Credits: (4) <p>Biodiversity and conservation biology option</p> <ul style="list-style-type: none"> • BIOL 500 - Plant Physiology Credits: (4) or • BIOL 513 - Physiological Adaptations of Animals Credits: (3) and • BIOL 514 - Physiological Adaptations of Animals Laboratory Credits: (1) • BIOL 642 - Principles of Conservation Biology Credits: (3) <p>Plus 11 hours of courses from the following list (for biodiversity and conservation option only):</p> <ul style="list-style-type: none"> • BIOL 542 - Ichthyology Credits: (3) • BIOL 543 - Ornithology Credits: (3) • BIOL 544 - Mammalogy Credits: (3) • BIOL 551 - Taxonomy of Flowering Plants Credits: (4) • BIOL 604 - Biology of the Fungi Credits: (3) 	<p>Block C: Options</p> <p><u>Fisheries ecology and management option</u></p> <ul style="list-style-type: none"> • BIOL 513 - Physiological Adaptations of Animals Credits: <u>(4)</u> and • BIOL 542 - Ichthyology Credits: (3) • BIOL 612 - Freshwater Ecology Credits: (4) • BIOL 682 - Fish Ecology Credits: (3) • BIOL 696 - Fisheries Management and Techniques Credits: (4) <p><u>Wildlife ecology and management option</u></p> <ul style="list-style-type: none"> • BIOL 513 - Physiological Adaptations of Animals Credits: <u>(4)</u> and • BIOL 543 - Ornithology Credits: (3) • BIOL 544 - Mammalogy Credits: (3) • BIOL 551 - Taxonomy of Flowering Plants Credits: (4) • BIOL 684 - Wildlife Management and Techniques Credits: (4) <p><u>Biodiversity and conservation biology option</u></p> <ul style="list-style-type: none"> • <u>BIOL 500 - Plant Physiology Credits: (3)</u> and • <u>BIOL 501 - Plant Physiology Laboratory Credits: (1)</u> or • BIOL 513 - Physiological Adaptations of Animals Credits: <u>(4)</u> • BIOL 642 - Principles of Conservation Biology Credits: (3) <p>Plus 11 hours of courses from the following list (for biodiversity and conservation option only):</p> <ul style="list-style-type: none"> • BIOL 542 - Ichthyology Credits: (3) • BIOL 543 - Ornithology Credits: (3) • BIOL 544 - Mammalogy Credits: (3) • BIOL 551 - Taxonomy of Flowering Plants Credits: (4) • BIOL 604 - Biology of the Fungi Credits: (3) • ENTOM 312 - General Entomology Credits: (2) and • ENTOM 313 - General Entomology Laboratory Credits: (1) • FOR 330 - Dendrology I Credits: (2)
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<ul style="list-style-type: none"> • ENTOM 312 - General Entomology Credits: (2) and • ENTOM 313 - General Entomology Laboratory Credits: (1) • FOR 330 - Dendrology I Credits: (2) • FOR 340 - Dendrology II Credits: (2) 	<ul style="list-style-type: none"> • FOR 340 - Dendrology II Credits: (2)
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RATIONALE: ENTOM 680 is no longer offered. Removing this requirement will bring the number of required Block C credits for the Fisheries Ecology and Management option of the Fisheries, Wildlife and Conservation Biology curriculum in line with the required number of credits (18 credits) in the other two Block C options. BIOL 514 is being dropped and the course material combined under BIOL 513. The combined course will be 4 credit hours instead of the current 3 to reflect the change. BIOL 500 is currently a lecture/lab course which is being split into two separate courses, lab (BIOL 501, 1 credit hour) and lecture (BIOL 500, 3 credit hours). Forms for these courses are being submitted for approval and this change of curriculum form reflects the anticipated approval of those changes.

IMPACT: None

EFFECTIVE DATE: Fall 2013

College of Arts and Sciences

Dual Degree Requirements

FROM:

TO:

<p>Degree Requirements</p> <p>At least 120 credit hours are required for graduation.</p> <p>Courses numbered below 100 may not be applied toward a degree. In addition to the university's limit on credits for extracurricular work, no more than 4 credit hours in lifetime sports and exercise activity classes may be applied toward a degree.</p> <p>Common degree requirements</p> <p>(Three courses, 8 credit hours minimum)</p>	<p>Degree Requirements</p> <p>At least 120 credit hours are required for graduation.</p> <p>Courses numbered below 100 may not be applied toward a degree. In addition to the university's limit on credits for extracurricular work, no more than 4 credit hours in lifetime sports and exercise activity classes may be applied toward a degree.</p> <p>Common degree requirements</p> <p>(Three courses, 8 credit hours minimum)</p>
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Purpose: to give students practice in oral presentation and in writing and analyzing expository and argumentative prose.

Course	Course Title	Credit hours
ENGL 100	Expository Writing I	3
ENGL 200	Expository Writing II	3
COMM 105 or	Public Speaking IA or	2
COMM 106	Public Speaking I	3

Bachelor of Arts and Bachelor of Sciences

College of Arts and Sciences basic requirements

The aim of these requirements is to provide breadth in the major areas of knowledge outside of the student’s field of specialization. Introductory and intermediate-level courses are available in departments in humanities, social sciences, and natural sciences. Basic requirements are to be fulfilled with courses chosen by students in consultation with their advisor. The requirement in the humanities enables students to appreciate and understand creative and conceptual human endeavor.

The requirement in the social sciences improves the student’s ability to analyze and understand human social systems. The requirement in the natural sciences develops the student’s knowledge of the principles of scientific method as they are applied in the life and physical science.

Up to two courses from one department may be used to fulfill the distribution requirements for humanities and the social sciences. They may be used at the same time to count towards the student’s major. No course may be used to satisfy more than one specific requirement for humanities and social sciences. Only courses taken for 2 or

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Bachelor of Arts and Bachelor of Sciences

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The aim of these requirements is to provide breadth in the major areas of knowledge outside of the student’s field of specialization. Introductory and intermediate-level courses are available in departments in humanities, social sciences, and natural sciences. Basic requirements are to be fulfilled with courses chosen by students in consultation with their advisor. The requirement in the humanities enables students to appreciate and understand creative and conceptual human endeavor.

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<p>more credit hours satisfy these requirements; courses in excess of 5 credit hours count as two courses.</p> <p>At least 120 credit hours are required for graduation.</p> <p>Humanities</p> <p>Four courses, one course for each section, 11 credit hours minimum</p> <p>Fine arts (one course, or at least two credits) Purpose: to ensure some interpretive or expressive competence in a traditional nonliterary mode of artistic expression.</p> <p>Choose from the following:</p> <ul style="list-style-type: none"> • Anthropology—ANTH 515, 516, or 517 • Art—ART 301, 305, 400, 560, or 636 • Art History—any course • Art Technique—ART 200 to 799 • Dance—DANCE 181, 205, 323, 324, 325, 326, 371, 381, 399, or 459 • Dean of Arts & Sciences—DAS 100 • Music—MUSIC 100, 112, 170, 210, 220, 230, 245, 250, 255, 280, 310, 385, 420, 424, 455, 480, 570, 601, or 650. • Theatre—THTRE 260 to 799 <p>Philosophy (one course) Purpose: to ensure some interpretive or expressive competence in the fundamental conceptual issues of human thought and activity.</p> <p>Choose any philosophy course except PHILO 110, 320, or 510.</p> <p>Western heritage (one course) Purpose: to ensure some interpretive or expressive competence regarding the institutions, traditions, and values that have shaped Western civilization.</p> <p>Choose from the following:</p>	<p>more credit hours satisfy these requirements; courses in excess of 5 credit hours count as two courses.</p> <p>At least 120 credit hours are required for graduation.</p> <p>Humanities</p> <p>Four courses, one course for each section, 11 credit hours minimum</p> <p>Fine arts (one course, or at least two credits) Purpose: to ensure some interpretive or expressive competence in a traditional nonliterary mode of artistic expression.</p> <p>Choose from the following:</p> <ul style="list-style-type: none"> • Anthropology—ANTH 515, 516, or 517 • Art—ART 301, 305, 400, 560, or 636 • Art History—any course • Art Technique—ART 200 to 799 • Dance—DANCE 181, 205, 323, 324, 325, 326, 371, 381, 399, or 459 • Dean of Arts & Sciences—DAS 100 • Music—MUSIC 100, 112, 170, 210, 220, 230, 245, 250, 255, 280, 310, 385, 420, 424, 455, 480, 570, 601, or 650. • Theatre—THTRE 260 to 799 <p>Philosophy (one course) Purpose: to ensure some interpretive or expressive competence in the fundamental conceptual issues of human thought and activity.</p> <p>Choose any philosophy course except PHILO 110, 320, or 510.</p> <p>Western heritage (one course) Purpose: to ensure some interpretive or expressive competence regarding the institutions, traditions, and values that have shaped Western civilization.</p> <p>Choose from the following:</p>
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<ul style="list-style-type: none"> • American Ethnic Studies—AMETH 160, 449, 450, 451, 452, 453, 454, 501, or 560 • Constitutional Law—POLSC 614, 615, or 799 • Dean of Arts & Sciences—DAS 300 • English—ENGL 230, 231, 233, or 234 (Western Humanities) • Foreign Civilizations—FREN 514, GRMN 530, SPAN 565, SPAN 566, or SPAN 572 • History—courses dealing with the Greco-Roman, Western European, or North American experience; HIST 515 • History of Sport (cross-listed with KIN 515) • Kinesiology—KIN 515 (cross-listed with HIST 515) • Music—MUSIC 245 • Political Thought—POLSC 301, 661, 663, 667, 671, or 675 • Sociology—SOCIO 507 • Women’s Studies—WOMST 105, 205, 410, 480, 500, 551, or 610 • Theatre—THTRE 572 or 573 <p>Literary or rhetorical arts (one course) Purpose: to ensure some interpretive or expressive competence in a traditional literary or rhetorical mode of artistic expression.</p> <p>Choose from the following:</p> <ul style="list-style-type: none"> • English—literature or creative writing—ENGL 220 to 799 except 300, 400, 415, 430, 435, 476, 490, 492, 499, 516, 600–604, 757, or 759 • Communication Studies—COMM 120, 325, or 480 • History of rhetoric—COMM 320, 330, 331, 430, 432, 434, 460, 725, 730, 732, 733, or POLSC 670 • Modern Languages—literature courses including literature in translation • Theatre—THTRE 370, 662, or 764 	<ul style="list-style-type: none"> • American Ethnic Studies—AMETH 160, 449, 450, 451, 452, 453, 454, 501, or 560 • Constitutional Law—POLSC 614, 615, or 799 • Dean of Arts & Sciences—DAS 300 • English—ENGL 230, 231, 233, or 234 (Western Humanities) • Foreign Civilizations—FREN 514, GRMN 530, SPAN 565, SPAN 566, or SPAN 572 • History—courses dealing with the Greco-Roman, Western European, or North American experience; HIST 515 • History of Sport (cross-listed with KIN 515) • Kinesiology—KIN 515 (cross-listed with HIST 515) • Music—MUSIC 245 • Political Thought—POLSC 301, 661, 663, 667, 671, or 675 • Sociology—SOCIO 507 • Women’s Studies—WOMST 105, 205, 410, 480, 500, 551, or 610 • Theatre—THTRE 572 or 573 <p>Literary or rhetorical arts (one course) Purpose: to ensure some interpretive or expressive competence in a traditional literary or rhetorical mode of artistic expression.</p> <p>Choose from the following:</p> <ul style="list-style-type: none"> • English—literature or creative writing—ENGL 220 to 799 except 300, 400, 415, 430, 435, 476, 490, 492, 499, 516, 600–604, 757, or 759 • Communication Studies—COMM 120, 325, or 480 • History of rhetoric—COMM 320, 330, 331, 430, 432, 434, 460, 725, 730, 732, 733, or POLSC 670 • Modern Languages—literature courses including literature in translation • Theatre—THTRE 370, 662, or 764
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<p>Exception: Students in BS programs who take two courses in one foreign language may use these to satisfy the requirements for Western heritage and for literary and rhetorical arts.</p> <p>Social science</p> <p>Four courses, 12 credit hours minimum, from at least three disciplines.</p> <p>Purpose: to acquaint students with the adaptation of scientific method to the analysis of human social systems.</p> <p>One course must be at 500 level or above, or carry a prerequisite in the same department.</p> <p>Three of the four courses must be from these areas:</p> <ul style="list-style-type: none"> • Cultural Anthropology—including archaeology • Economics—any course • Geography—any course except GEOG 221, 321, or 535 • History—any course • Mass Communications—MC 110, 112, 120, 180, 331, 396, 531, 572, 573, 576, 585, 600, 612, 623, or 670 • Political Science—any course • Psychology—any course • Sociology—any course <p>The fourth course must be from the above areas or from:</p> <ul style="list-style-type: none"> • American ethnic studies—AMETH 160, 499, 501, 550, or 650 • Anthropology—ANTH 520 • Communication Studies—COMM 323, 326, 420, 425, 435, 526, 542, 550, 720, 726, 742, or 756 • Gerontology—GERON 315, 600, or 615 • Kinesiology—KIN 320, 330, 345, 346, or 	<p>Exception: Students in BS programs who take two courses in one foreign language may use these to satisfy the requirements for Western heritage and for literary and rhetorical arts.</p> <p>Social science</p> <p>Four courses, 12 credit hours minimum, from at least three disciplines.</p> <p>Purpose: to acquaint students with the adaptation of scientific method to the analysis of human social systems.</p> <p>One course must be at 500 level or above, or carry a prerequisite in the same department.</p> <p>Three of the four courses must be from these areas:</p> <ul style="list-style-type: none"> • Cultural Anthropology—including archaeology • Economics—any course • Geography—any course except GEOG 221, 321, or 535 • History—any course • Mass Communications—MC 110, 112, 120, 180, 331, 396, 531, 572, 573, 576, 585, 600, 612, 623, or 670 • Political Science—any course • Psychology—any course • Sociology—any course <p>The fourth course must be from the above areas or from:</p> <ul style="list-style-type: none"> • American ethnic studies—AMETH 160, 499, 501, 550, or 650 • Anthropology—ANTH 520 • Communication Studies—COMM 323, 326, 420, 425, 435, 526, 542, 550, 720, 726, 742, or 756 • Gerontology—GERON 315, 600, or 615 • Kinesiology—KIN 320, 330, 345, 346, or
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<p>435</p> <ul style="list-style-type: none"> • Linguistics—any course except LG 601 • Women’s Studies—WOMST 105, 205, 300, 450, 480, 500, 551, 590, or 610 <p>Natural sciences</p> <p>BS Degree: Four courses, 14 credit hours minimum. BA Degree: Three courses, 11 credit hours minimum.</p> <ol style="list-style-type: none"> 1. Life Sciences with a lab 2. Physical Sciences with a lab 3. Life or Physical Sciences, including additional Natural Science <p>Life science (one 3- or 4-hour course with laboratory) Purpose: to introduce students to the systematic study of organisms and their interrelationships.</p> <p>Choose from the following:</p> <ul style="list-style-type: none"> • Biochemistry—any course • Biology—any course • Paleobiology—GEOL 581 or 704 • Physical anthropology—ANTH 280, 281, 680, 684, 688, 691, 694, or 695 <p>Physical science (one course with laboratory) Purpose: to introduce students to the appropriate attitudes and methods that characterize the systematic study of matter and energy.</p> <p>Choose from the following:</p> <ul style="list-style-type: none"> • Biochemistry—BIOCH 265 to 799 • Chemistry—any course • Environmental geography—GEOG 221, 535, or 735 • Geology—any course except GEOL 581 or 704 • Physics—any course <p>Additional Natural Sciences (for 3rd requirement only)</p>	<p>435</p> <ul style="list-style-type: none"> • Linguistics—any course except LG 601 • Women’s Studies—WOMST 105, 205, 300, 450, 480, 500, 551, 590, or 610 <p>Natural sciences</p> <p>BS Degree: Four courses, 14 credit hours minimum. BA Degree: Three courses, 11 credit hours minimum.</p> <ol style="list-style-type: none"> 1. Life Sciences with a lab 2. Physical Sciences with a lab 3. Life or Physical Sciences, including additional Natural Science <p>Life science (one 3- or 4-hour course with laboratory) Purpose: to introduce students to the systematic study of organisms and their interrelationships.</p> <p>Choose from the following:</p> <ul style="list-style-type: none"> • Biochemistry—any course • Biology—any course • Paleobiology—GEOL 581 or 704 • Physical anthropology—ANTH 280, 281, 680, 684, 688, 691, 694, or 695 <p>Physical science (one course with laboratory) Purpose: to introduce students to the appropriate attitudes and methods that characterize the systematic study of matter and energy.</p> <p>Choose from the following:</p> <ul style="list-style-type: none"> • Biochemistry—BIOCH 265 to 799 • Chemistry—any course • Environmental geography—GEOG 221, 535, or 735 • Geology—any course except GEOL 581 or 704 • Physics—any course <p>Additional Natural Sciences (for 3rd requirement only)</p>
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<ul style="list-style-type: none"> • Kinesiology—KIN 220 or 310 <p>4. BS Degree Only: One course, 3 credit hour minimum) with a prerequisite in the same department chosen from:</p> <ul style="list-style-type: none"> • Life or Physical Sciences listed in #3 above • Biochemistry course with a chemistry prerequisite • Dean of Arts & Sciences—DAS 333 • Kinesiology—KIN 330, 335, or 650 • Psychology—PSYCH 470 or 480 (you may use only one of these) • BIOL 310 does not fulfill this requirement <p>NOTE: Only courses taken for 2 or more credit hours satisfy these requirements and courses in excess of 5 credit hours count as two courses.</p> <p>International studies overlay</p> <p>One course.</p> <p>Purpose: to equip students better to become citizens of a world where the most important problems are unavoidably defined in international terms and to understand cultures of the world outside the Western tradition.</p> <p>A student must take one course of which at least half is devoted to: economic, political, and social relations or interactions between or among different countries, in which the major focus is upon the interdependency of nations of the modern world; or contemporary features or historical traditions of non-Western cultures (excluding those dealing primarily with Greek, Roman, Western European, or North American experience).</p> <p>Students may satisfy the international studies requirement at the same time they satisfy requirements in the major, in the humanities, or the social sciences. These courses qualify:</p> <ul style="list-style-type: none"> • Anthropology—ANTH 200, 204, 220, 260, 505, 508, 511, 512, 515, 516, 517, 536, 	<ul style="list-style-type: none"> • Kinesiology—KIN 220 or 310 <p>4. BS Degree Only: One course, 3 credit hour minimum) with a prerequisite in the same department chosen from:</p> <ul style="list-style-type: none"> • Life or Physical Sciences listed in #3 above • Biochemistry course with a chemistry prerequisite • Dean of Arts & Sciences—DAS 333 • Kinesiology—KIN 330, 335, or 650 • Psychology—PSYCH 470 or 480 (you may use only one of these) • BIOL 310 does not fulfill this requirement <p>NOTE: Only courses taken for 2 or more credit hours satisfy these requirements and courses in excess of 5 credit hours count as two courses.</p> <p>International studies overlay</p> <p>One course.</p> <p>Purpose: to equip students better to become citizens of a world where the most important problems are unavoidably defined in international terms and to understand cultures of the world outside the Western tradition.</p> <p>A student must take one course of which at least half is devoted to: economic, political, and social relations or interactions between or among different countries, in which the major focus is upon the interdependency of nations of the modern world; or contemporary features or historical traditions of non-Western cultures (excluding those dealing primarily with Greek, Roman, Western European, or North American experience).</p> <p>Students may satisfy the international studies requirement at the same time they satisfy requirements in the major, in the humanities, or the social sciences. These courses qualify:</p> <ul style="list-style-type: none"> • Anthropology—ANTH 200, 204, 220, 260, 505, 508, 511, 512, 515, 516, 517, 536,
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<p>545, 550, 604, 618, 630, 634, 673, or 676</p> <ul style="list-style-type: none"> • Communication Studies—COMM 480, 756, or 780 • Economics—ECON 505, 507, 536, 681, or 682 • English—ENGL 580 • Geography—GEOG 100, 200, 201, 505, 620, 622, 640, 650, or 715 • History—HIST 112, 250, 303, 330, 332, 501, 504, 505, 509, 510, 514, 543, 544, 545, 560, 561, 562, 576, 577, 578, 591, 592, 593, or 598 • Mass Communications—MC 662 or 725 • Management—MANGT 690 • Marketing—MKTG 544 • Modern Languages—Any Level 4 or above language course in French, German, and Spanish, including translation courses • Political Science—POLSC 333, 505, 511, 541, 543, 545, 622, 623, 624, 626, 627, 629, 643, 645, 647, 651, 652, 653, or 655 • Sociology—SOCIO 363, 505, 507, 522, 535, 618, or 742 • Women’s Studies—WOMST 380 or 580 <p>Students may use the fourth course in a single foreign language sequence (other than Latin) to satisfy the international studies overlay requirement.</p> <p>Additional requirements for the BA</p> <p>Foreign language Level 4 (i.e., French 4, German 4, Spanish 4, etc.) or the equivalent of level 4 in a foreign language sequence offered by the Department of Modern Languages. (Conversation “4A” courses do not meet the level 4 requirement.)</p> <p>Purpose: to bring students to a point at which they are able to proceed on their own to a command of a second language—a key for access both to a</p>	<p>545, 550, 604, 618, 630, 634, 673, or 676</p> <ul style="list-style-type: none"> • Communication Studies—COMM 480, 756, or 780 • Economics—ECON 505, 507, 536, 681, or 682 • English—ENGL 580 • Geography—GEOG 100, 200, 201, 505, 620, 622, 640, 650, or 715 • History—HIST 112, 250, 303, 330, 332, 501, 504, 505, 509, 510, 514, 543, 544, 545, 560, 561, 562, 576, 577, 578, 591, 592, 593, or 598 • Mass Communications—MC 662 or 725 • Management—MANGT 690 • Marketing—MKTG 544 • Modern Languages—Any Level 4 or above language course in French, German, and Spanish, including translation courses • Political Science—POLSC 333, 505, 511, 541, 543, 545, 622, 623, 624, 626, 627, 629, 643, 645, 647, 651, 652, 653, or 655 • Sociology—SOCIO 363, 505, 507, 522, 535, 618, or 742 • Women’s Studies—WOMST 380 or 580 <p>Students may use the fourth course in a single foreign language sequence (other than Latin) to satisfy the international studies overlay requirement.</p> <p>Additional requirements for the BA</p> <p>Foreign language Level 4 (i.e., French 4, German 4, Spanish 4, etc.) or the equivalent of level 4 in a foreign language sequence offered by the Department of Modern Languages. (Conversation “4A” courses do not meet the level 4 requirement.)</p> <p>Purpose: to bring students to a point at which they are able to proceed on their own to a command of a second language—a key for access both to a</p>
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<p>foreign culture and to much primary and secondary material in many special fields.</p> <p>Exception: Students who take a language that is normally offered for only two semesters (Latin 141 and 142, for example) may complete their requirement by taking two additional semesters in another language.</p> <p>Mathematics (One 3-credit-hour course, 100-799 level, or any other course for which there is a mathematics prerequisite) Purpose: to give students a college-level competence in mathematical reasoning and analysis.</p> <p>Any course used to satisfy this requirement cannot be used to satisfy any other general education requirement.</p> <p>Additional requirements for the BS</p> <p>Natural sciences (One course, 3 credit hours minimum, with a prerequisite in the same department; for this requirement, biochemistry courses with a chemistry prerequisite qualify as upper-level courses.) Purpose: to give students who elect the bachelor of science degree an especially solid foundation in the natural sciences.</p> <p>Courses that qualify are those listed earlier under natural sciences, and:</p> <ul style="list-style-type: none"> • Kinesiology—KIN 330, 335, or 650 • Psychology—PSYCH 470 or 480 <p>Quantitative and abstract formal reasoning Purpose: to give students training in a clear, non-ambiguous, simplified language for the efficient transfer and logical analysis of information—a language in which a good deal of discussion is conducted in the sciences.</p> <p>A course that satisfies this requirement may at the same time be used to satisfy any major requirement for which it qualifies. Students may</p>	<p>foreign culture and to much primary and secondary material in many special fields.</p> <p>Exception: Students who take a language that is normally offered for only two semesters (Latin 141 and 142, for example) may complete their requirement by taking two additional semesters in another language.</p> <p>Mathematics (One 3-credit-hour course, 100-799 level, or any other course for which there is a mathematics prerequisite) Purpose: to give students a college-level competence in mathematical reasoning and analysis.</p> <p>Any course used to satisfy this requirement cannot be used to satisfy any other general education requirement.</p> <p>Additional requirements for the BS</p> <p>Natural sciences (One course, 3 credit hours minimum, with a prerequisite in the same department; for this requirement, biochemistry courses with a chemistry prerequisite qualify as upper-level courses.) Purpose: to give students who elect the bachelor of science degree an especially solid foundation in the natural sciences.</p> <p>Courses that qualify are those listed earlier under natural sciences, and:</p> <ul style="list-style-type: none"> • Kinesiology—KIN 330, 335, or 650 • Psychology—PSYCH 470 or 480 <p>Quantitative and abstract formal reasoning Purpose: to give students training in a clear, non-ambiguous, simplified language for the efficient transfer and logical analysis of information—a language in which a good deal of discussion is conducted in the sciences.</p> <p>A course that satisfies this requirement may at the same time be used to satisfy any major requirement for which it qualifies. Students may</p>
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fulfill this requirement ONE of three ways:

1. Three courses, 9 credit hours minimum, selected from:
Computer science—CIS 111, 200 level or above
Mathematics—MATH 100 level or above
Philosophy—PHILO 110, 112, 320, or 510
Statistics—any course
2. One course and its Level II prerequisite, selected from:
Geography—GEOG 700 (with a statistics course)
Physics—PHYS 113 (with MATH 150)
PHYS 223 (with MATH 221)
PHYS 224 (with MATH 221)
PHYS 325 (with MATH 222)
PHYS 452 (with MATH 150)
Sociology—SOCIO 520 (with STAT 325)
Social work—SOCWK 330 and 530 (with STAT 325)
3. Equivalent competency:
Competency may be demonstrated by taking two Level II courses or a Level III course from:
Level II courses (two courses):
Computer science—CIS 200
Mathematics—MATH 150, 205, 210, or 312
Philosophy—PHILO 510
Statistics—STAT 325 or 340 or 350, 703
Level III courses (one course):
Computer science—CIS 300
Mathematics—MATH 220
Philosophy—PHILO 701
Statistics—STAT 341, 351, 704, or 705

fulfill this requirement ONE of three ways:

1. Three courses, 9 credit hours minimum, selected from:
Computer science—CIS 111, 200 level or above
Mathematics—MATH 100 level or above
Philosophy—PHILO 110, 112, 320, or 510
Statistics—any course
2. One course and its Level II prerequisite, selected from:
Geography—GEOG 700 (with a statistics course)
Physics—PHYS 113 (with MATH 150)
PHYS 223 (with MATH 221)
PHYS 224 (with MATH 221)
PHYS 325 (with MATH 222)
PHYS 452 (with MATH 150)
Sociology—SOCIO 520 (with STAT 325)
Social work—SOCWK 330 and 530 (with STAT 325)
3. Equivalent competency:
Competency may be demonstrated by taking two Level II courses or a Level III course from:
Level II courses (two courses):
Computer science—CIS 200
Mathematics—MATH 150, 205, 210, or 312
Philosophy—PHILO 510
Statistics—STAT 325 or 340 or 350, 703
Level III courses (one course):
Computer science—CIS 300
Mathematics—MATH 220
Philosophy—PHILO 701
Statistics—STAT 341, 351, 704, or 705

Dual Degree BA or BS

Students have the option of seeking a dual degree BA or BS. The dual degree seeking student is one who is enrolled in two BA or BS programs, only one of which is within the College of Arts and Sciences. The following distribution requirements apply exclusively to dual degree seeking students. They

	<p><u>may not be applied to dual majors, who are students seeking two majors within the College of Arts and Sciences.</u></p> <p><u>Dual degree seeking BA students must fulfill all the requirements for the College of Arts and Sciences in at least two of the four required areas (Humanities, Social Science, Natural Science, and Additional Requirements of the BA), and half of the distribution requirements in the remaining two areas. The choice of how these requirements will be met will be made with the approval of an advisor within the College of Arts and Sciences.</u></p> <p><u>Dual degree seeking BS students must fulfill all the requirements for the College of Arts and Sciences in at least two of the four required areas (Humanities, Social Science, Natural Science, and Additional Requirements of the BS), and half of the distribution requirements in the remaining two areas. The choice of how these requirements will be met will be made with the approval of an advisor within the College of Arts and Sciences.</u></p> <p><u>Dual degree seeking students must meet the International Studies Overlay requirement.</u></p> <p><u>Half of the distribution requirements in each area are:</u></p> <p><u>Humanities</u></p> <p><u>One course from Philosophy (3 credits) and one course in the Fine Arts, Western Heritage, or Literary or Rhetorical Arts (3 credits).</u></p> <p><u>Dual degree seeking students enrolled in Biochemistry and Molecular Physics, Biology, Chemistry, Geology, Mathematics, Physics, Physical Sciences, Natural Sciences, or Statistics, are required to take PHILO 501: Perspectives on Science to meet the Philosophy requirement.</u></p> <p><u>Social Science</u></p> <p><u>Two courses, 6 credit hours, from two disciplines.</u></p>
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	<p><u>Natural Sciences</u></p> <p><u>BS or BA Degrees, 7 credit hours minimum, from two disciplines.</u></p> <p><u>Any science course with lab, and one other science course from a different discipline.</u></p> <p><u>Additional Requirements for BA</u></p> <p><u>At least a level 2 (i.e., French 2, German 2, Spanish 2, etc.) or the equivalent of level 2 in a foreign language sequence offered by the Department of Modern Languages. No additional Mathematics requirement. Any course used to satisfy this requirement cannot be used to satisfy any other general education requirement.</u></p> <p><u>Additional Requirements for BS</u></p> <p><u>At least a level 2 equivalent competency in the areas of quantitative and abstract formal reasoning. No additional Natural Sciences requirement. Any course used to satisfy this requirement cannot be used to satisfy any other general education requirement.</u></p>
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RATIONALE: Dual degree students, enrolled in a program in the College of Arts and Sciences and a program from another college, must satisfy each college's separate requirements. For dual degree seeking students from colleges of Education, Business, Engineering, and Human Ecology, much of their requirements are dictated by licensure and/or professional accreditation bodies. In addition, the general requirements for Arts and Sciences BA and BS degrees is extensive, translating to more than 48 hours for most students. Taken together, to graduate a dual degree seeking student must fulfill many more hours beyond 120 hours to graduate, extending their stay in college by one to three semesters. This proposal seeks to encourage more dual degree seeking students by allowing BA or BS dual degree students to fulfill half of the distribution requirements in two of the four areas (Humanities, Social Sciences, Natural Sciences, and Additional Requirements). The benefit of this proposal is that it will encourage more students in other colleges to seek dual degree opportunities in A&S. Perhaps this is most the case for students preparing to be K-12 teachers in the College of Education. Teachers with a substantive major have been shown to be much more effective classroom teachers. However, because majoring in a substantive area is not required for licensure and the total number of hours is

about 135 to complete a dual degree, most College of Education major forgo the additional semester to begin their career. As a consequence, departments especially in the STEM disciplines losing majors that they may otherwise be able to add to their programs. Other dual degree opportunities between business majors with an international focus and the Modern Languages are even more difficult to achieve under the current guidelines.

IMPACT: College of Arts and Sciences and all other colleges on the Manhattan campus except for Vet Med and Architecture and Design. No impact for the College of Technology and Aviation. The College of Engineering, Education, Agriculture, Business Administration, Human Ecology, and Architecture and Design have all expressed support. All of the departments in the College of Arts and Sciences have expressed support also.

EFFECTIVE DATE: Fall 2013

Physical Science BA/BS

FROM:

TO:

<p>Physical science is an interdisciplinary major that deals with nonliving matter.</p> <p>Bachelor's degree requirements Students may earn a Bachelor of Science or a Bachelor of Arts degree. Although the classes within the major are the same for the BA or the BS degree, the college's basic requirements for the two degrees will differ as described in the College of Arts and Sciences section. (The significant difference between the BA and the BS for the Physical Science degree is that the BA requires the equivalent of a level 4 in a foreign language sequence.)</p> <p>Both the BA and the BS require a minimum of 120 credits for degree completion. A minimum of 37 of these credits must be from classes within the major. Students must also complete the College of Arts and Sciences basic requirements for degree. These requirements can be individualized so working with an advisor is recommended.</p> <p>Students majoring in Physical Science must earn grades of C or better in all courses required for the major, including electives and transfer work.</p> <p>Required courses for the major</p>	<p>Physical science is an interdisciplinary major that deals with nonliving matter.</p> <p>Bachelor's degree requirements Students may earn a Bachelor of Science or a Bachelor of Arts degree. Although the classes within the major are the same for the BA or the BS degree, the college's basic requirements for the two degrees will differ as described in the College of Arts and Sciences section. (The significant difference between the BA and the BS for the Physical Science degree is that the BA requires the equivalent of a level 4 in a foreign language sequence.)</p> <p>Both the BA and the BS require a minimum of 120 credits for degree completion. A minimum of 37 of these credits must be from classes within the major. Students must also complete the College of Arts and Sciences basic requirements for degree. These requirements can be individualized so working with an advisor is recommended.</p> <p>Students majoring in Physical Science must earn grades of C or better in all courses required for the major, including electives and transfer work.</p> <p>Required courses for the major</p>
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<p>CHM 210 - Chemistry I Credits: (4) or</p> <p>CHM 220 - Honors Chemistry I Credits: (5) and</p> <p>CHM 230 - Chemistry II Credits: (4) or</p> <p>CHM 250 - Honors Chemistry II Credits: (5) Choose from the following:</p> <p>-----</p>	<p>CHM 210 - Chemistry I Credits: (4) or</p> <p>CHM 220 - Honors Chemistry I Credits: (5) and</p> <p>CHM 230 - Chemistry II Credits: (4) or</p> <p>CHM 250 - Honors Chemistry II Credits: (5) Choose from the following:</p> <p>-----</p>
<p>PHYS 113 - General Physics I Credits: (4) or</p> <p>PHYS 213 - Engineering Physics I Credits: (5) and</p> <p>PHYS 114 - General Physics II Credits: (4) or</p> <p>PHYS 214 - Engineering Physics II Credits: (5) Choose one from the following:</p> <p>-----</p>	<p>PHYS 113 - General Physics I Credits: (4) or</p> <p>PHYS 213 - Engineering Physics I Credits: (5) and</p> <p>PHYS 114 - General Physics II Credits: (4) or</p> <p>PHYS 214 - Engineering Physics II Credits: (5) Choose one from the following:</p> <p>-----</p>
<p>STAT 325 - Introduction to Statistics Credits: (3) STAT 340 - Biometrics I Credits: (3) STAT 410 - Probabilistic Systems Modeling Credits: (3) STAT 510 - Introductory Probability and Statistics I Credits: (3) Electives must be selected from the following:</p> <p>-----</p>	<p>STAT 325 - Introduction to Statistics Credits: (3) STAT 340 - Biometrics I Credits: (3) STAT 410 - Probabilistic Systems Modeling Credits: (3) STAT 510 - Introductory Probability and Statistics I Credits: (3) Electives must be selected from the following:</p> <p>-----</p>

<p>Computing and information sciences—CIS 200 or above</p> <p>Chemistry—CHM 350 , CHM 351 , CHM 371 , CHM 500 or above</p> <p>Geology—GEOL 100 , GEOL 102 , GEOL 103 , GEOL 105 , GEOL 501 or above, except GEOL 512</p> <p>Geography—GEOG 324</p> <p>Mathematics—MATH 221 , MATH 222 , MATH 240 , MATH 510 , MATH 540 or MATH 551</p> <p>Physics—PHYS 122 , PHYS 191 , PHYS 300 or above, except PHYS 515</p> <p>Statistics—STAT 341 , STAT 511, or above</p> <p>Note: -----</p> <p>Problems, seminar, and topics courses are not acceptable unless listed above. At least five elective hours must have a prerequisite.</p> <p>Total hours required for graduation (120 credit hours)</p>	<p>Computing and information sciences—CIS 200 <u>to 799</u></p> <p>Chemistry—CHM 350 , CHM 351 , CHM 371 , CHM 500 <u>to 799</u></p> <p>Geology—GEOL 100 , GEOL 102 , GEOL 103 , GEOL 105 , GEOL 501 <u>to 799</u>, except GEOL 512</p> <p>Geography—<u>GEOG 235, GEOG 302, GEOG 508, GEOG 535, GEOG 605, GEOG 711, GEOG 725, GEOG 735</u></p> <p>Mathematics—MATH 221 , MATH 222 , MATH 240 , MATH 510 , MATH 540 or MATH 551</p> <p>Physics—PHYS 122 , PHYS 191 , PHYS 300 or above, except PHYS 515</p> <p>Statistics—STAT 341 , <u>STAT 510 or above</u></p> <p>Note: -----</p> <p>Problems, seminar, and topics courses are not acceptable unless listed above. At least five elective hours must have a prerequisite.</p> <p>Total hours required for graduation (120 credit hours)</p>
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RATIONALE: Update to reflect changes in department course offerings.

IMPACT: Geography, Statistics. Both departments have indicated their approval.

EFFECTIVE DATE: Fall 2013