

COLLEGE OF ARTS AND SCIENCES
COURSE AND CURRICULUM CHANGES

Approved at the College Course and Curriculum Meeting

January 21, 2016
Eisenhower 212

Undergraduate/Graduate
Expedited

Contact Person: Jeffrey Smith
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No units outside the college will be affected

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

EXPEDITED COURSE PROPOSALS

Courses Numbered 000-599

Biology

FROM: BIOL 340 – Structure and Function of the Human Body. (8) I, II. Anatomy and physiology of the organ systems of the human body. Laboratory includes physiology experiments, study of anatomy from human cadavers, dissection experience, x-rays, and slide work. Pr.: ~~Cumulative GPA of 3.0; CHM 110/CHM 111, or CHM 230 (or transfer equivalent; BIOL 198 taken at K-State (with a B or better) or transferred biology class plus at least one of the following introductory courses taken at K-State with a B grade or better: CHM 110/111, CHM 210, or CHM 230; PHYS 113, PHYS 213, or any K-State biology course that has BIOL 198 as a prerequisite. Sophomore standing.~~

TO: BIOL 340 – Structure and Function of the Human Body. (8) I, II, S. Anatomy and physiology of the organ systems of the human body. Laboratory includes physiology experiments, study of anatomy from human cadavers, dissection experience, x-rays, and slide work. Pr.: (1, 2, 3, and 4 required): (1) Cumulative GPA of 3.0; (2) Sophomore standing; (3) CHM 110/CHM 111, CHM 210, or CHM 230 (or transfer equivalent); (4) BIOL 198 taken at K-State (with a B or better). Alternative (4): Transferred BIOL 198 (with a B or better) plus one of the following courses at K-State (with a B or better): CHM 110/111, CHM 210, or CHM 230; PHYS 113, PHYS 213, or any K-State biology course with a lab component and BIOL 198 as a prerequisite.

RATIONALE: Changes are being made to the course prerequisites to clarify them and also to specify that a K-State biology course used as a prerequisite must have a lab component. This is followed in practice but is not currently stated in the undergraduate catalog course description.

IMPACT: None

EFFECTIVE DATE: Summer 2016

History

FROM: ~~HIST 585 – Medieval Religion and Politics. (3) I, II. The interrelationship of religion and politics from the late Roman Empire to the Conciliar Epoch. Christianity in the Roman Empire and the barbarian kingdoms, the development of royal theocracy, the rise of the papacy, the conflict of church and state, the secularization of government, the Avignon papacy, the Great Schism, and conciliarism. Pr.: Sophomore standing. K-State 8: Historical Perspectives; Global Issues and Perspectives.~~

TO: HIST 585 – Medieval Christianity. (3) I, II. A survey of the development of Christianity in western Europe during the Middle Ages (c. 500-1500). Topics include the development of the papacy and the ecclesiastical hierarchy, the role of kings and other rulers, the Crusades, scholasticism, purgatory, penance, monasticism, specific religious orders like the Franciscans, baptism, marriage, asceticism, how medieval Christians read the Bible, saints, the roles of women, and heresy. Pr.: Sophomore standing. K-State 8: Historical Perspectives; Global Issues and Perspectives.

RATIONALE: Update of course name and description to reflect current practices.

IMPACT: None

EFFECTIVE DATE: Fall 2016

Statistics

FROM: STAT 341 – Biometrics II. (3) I, II. Analysis and interpretation of biological data using analysis of variance, analysis of covariance, and multiple regression. Negative binomial distribution and its applications. Pr.: STAT 325 or STAT 340 or STAT 350. K-State 8: None.

TO: STAT 341 – Biometrics II. (3) II. Analysis and interpretation of biological data using analysis of variance, analysis of covariance, and multiple regression. Negative binomial distribution and its applications. Pr.: STAT 325 or STAT 340 or STAT 350. K-State 8: None.

RATIONALE: Correct “when offered” on the undergraduate catalog to “Spring”.

IMPACT: None

EFFECTIVE DATE: Fall 2016

Women’s Studies

FROM: WOMST 505 – Independent Study in Women’s Studies. (1-3) I, II. Independent, interdisciplinary, supervised study in an area which does not fall within the boundaries of a traditional department. May be repeated once for credit with change of topic. ~~Pr.:~~ None.

TO: WOMST 505 – Independent Study in Women’s Studies. (1-3) I, II. Independent, interdisciplinary, supervised study in an area which does not fall within the boundaries of a traditional department. May be repeated once for credit with change of topic. PR.: WOMST 105 or 305.

RATIONALE: Prerequisite added because Students without some previous coursework in Women's Studies lack the necessary background to do independent work in the discipline.

IMPACT: None

EFFECTIVE DATE: Fall 2016

EXPEDITED COURSE PROPOSALS

Courses Numbered 600-999

Art

FROM: ART 600 – Advanced Drawing. (~~3-6~~) I, II. Upper-level drawing, development, and personal motivation. Lectures and problems directed toward an understanding of the historical development of drawing as well as investigations of contemporary studies.

~~Note: May be repeated for 4 semesters. Credits over 3 hours must be approved by instructor.~~ Pr.: ART 325.

TO: ART 600 – Advanced Drawing. (3) I, II. Upper-level drawing, development, and personal motivation. Lectures and problems directed toward an understanding of the historical development of drawing as well as investigations of contemporary studies. Pr.: ART 325. Note: This is a repeatable course.

RATIONALE: It is difficult to have a class with some students taking the course for 3 credits and others for 6. We would prefer that all students take the class for only 3 credits at a time.

IMPACT: None

EFFECTIVE DATE: Fall 2016

FROM: ART 680 – Metals Workshop. (~~4-5~~) I, II. ~~A number of metalsmithing techniques will be explored by the upper division student with emphasis on experimental problems and possibilities. The development of an individual point of view will predominate throughout the course.~~ Note: ~~May be repeated twice.~~ Pr.: ART 655.

TO: ART 680 – Metals Workshop. (3) I, II. Independent study designed for advanced level students to research and master metalsmithing and jewelry techniques through individual concentration as well as to develop a personal artistic language to create a unique body of work for BFA show. Note: This is a repeatable course. Pr.: ART 655.

RATIONALE: To change the description of the course to reflect the updated content and curriculum structure. Also to make the course repeatable more than twice so that major students can spread 9 required credits into 3 semesters with less credit hours instead of being forced to 4 or 5 hours in a semester.

IMPACT: None

EFFECTIVE DATE: FALL 2016

Division of Biology

FROM: BIOL 632 – Ecology Laboratory. (1) II. Laboratory and field experiences with ecological problems. K-State 8: None. Pr.: ~~STAT 340 or equivalent.~~

TO: BIOL 632 – Ecology Laboratory. (1) II. Laboratory and field experiences with ecological problems. K-State 8: None. Pr.: BIOL 529 and STAT 340 or equivalent.

RATIONALE: BIOL 632 Ecology Laboratory is taught assuming that students have taken BIOL 529 Fundamentals of Ecology and have the necessary background information to succeed in Ecology Laboratory. This is followed in practice but is not currently stated in the undergraduate catalog course description.

IMPACT: None

EFFECTIVE DATE: Spring 2017

FROM: ~~BIOL 863 – Professional Skills in Biology. (3) II. An introduction for new graduate students in the mechanics of becoming a scientist and professional biologist. The course includes presentation of professional seminars, grant proposal writing and reviewing, manuscript preparation and submission, interviewing for jobs, teaching skills, effective communication of scientific data in graphs and tables, and other topics.~~

TO: BIOL 863 – Professional Skills and Ethics. (3) II. An introduction for graduate students in the mechanics of becoming a scientist and professional biologist. Students actively participate in learning professional skills such as proposal writing and reviewing, professional oral and poster presentations, communicating science to the general public, abstract and manuscript preparation, and other topics. Ethical conduct in research and professional settings is discussed throughout the course. Note: Offered every spring; meets twice a week for 1.5 h. Required course for biology graduate students.

RATIONALE: A title and course description change are requested to better reflect the content of the course. The topics outlined in the course description have been taught but not on a yearly basis as new topics have been included to keep pace with changing times, needs, and student fields. To provide flexibility as additional skills are taught, we have modified the course description.

IMPACT: None

EFFECTIVE DATE: Spring 2017

FROM: BIOL 875 – Evolutionary Ecology. (3) ~~I, even years.~~ A study of the evolution of population, community, and ecosystem structure. Pr.: BIOL 529.

TO: BIOL 875 – Evolutionary Ecology. (3) II, odd years. A study of the evolution of population, community, and ecosystem structure. Pr.: BIOL 529.

RATIONALE: Dr. Michi Tobler will be teaching this class, previously taught by Dr. Ted Morgan. The requested change of semester in which the class is taught will work best with the rest of Dr. Tobler's planned teaching schedule.

IMPACT: None

EFFECTIVE DATE: Fall 2016

History

FROM: HIST 987 – Seminar in Writing History for Publication. (3) II. ~~A historical introduction and training in the central means by which historical knowledge is transmitted in written format.~~ Pr.: Must be enrolled in the Graduate Program.

TO: HIST 987 – Seminar in Writing History for Publication. (3) II. Students will take an example of their past or current written work (a seminar paper, a section of a thesis or dissertation) and refine it for publication as a scholarly article. Emphasis will be on writing in a clear, correct, and well-organized way; on sharpening arguments and interpretations; on undertaking additional research in primary and secondary sources; and on critiquing the work of fellow students in a professional manner. Pr.: Must be enrolled in the Graduate Program.

RATIONALE: Current course description does not accurately reflect actual course material.

IMPACT: None

EFFECTIVE DATE: Fall 2016

Mathematics

DROP: MATH 701 – Elementary Topology I. (3) Introduction to axiomatic topology including many examples and a study of metric spaces, quotient spaces, compactness, connectedness, local properties, separation axioms, the fundamental group, and the classification of covering spaces.

RATIONALE: This material is covered in a better way in other classes.

EFFECTIVE DATE: Fall 2016

DROP: MATH 702 – Elementary Topology II. (3) Elementary topics in topology, which may include: basic facts about topology and differentiable manifolds, concepts from the knot theory, PL topology, tilings.

RATIONALE: This material is covered in a better way in other classes.

EFFECTIVE DATE: Fall 2016

DROP: MATH 871 – General Topology I. (3) Topological spaces and topological invariants; continuous mappings and their invariants; perfect mappings; topological constructions (product, quotient, direct and inverse limit spaces).

RATIONALE: This material is covered in a better way in other classes.

EFFECTIVE DATE: Fall 2016

DROP: MATH 872 – General Topology II. (3) Compact spaces and compactification, uniform and proximity spaces, metric spaces and metrization, topology of \mathbb{R}^n , function spaces, complete spaces, introduction to homotopy theory.

RATIONALE: This material is covered in a better way in other classes.

EFFECTIVE DATE: Fall 2016

FROM: MATH 875 – Algebraic Topology. (3) ~~I. Fundamental groups; Seifert–Van Kampen Theorem; covering spaces; homology and cohomology; simplicial, singular, cellular, and axiomatic theories; cup products; Betti numbers, Euler characteristics; universal coefficient and Kunneth theorems; Hurewicz theorem in dimension one; orientation of manifolds; degree of maps. Pr.: MATH 701.~~

TO: MATH 875 – Algebraic Topology I. (3) I, Even numbered years. Homology and cohomology; simplicial, singular, cellular, and axiomatic theories; cup products; universal coefficient and Kunneth theorems; Hurewicz theorem in dimension one; orientation of manifolds; degree of maps spectral sequences, Whitehead’s theorem. Pr.: Math 771, Math 731.

RATIONALE: Change to better match current research and the qualifying exams that we give out students.

EFFECTIVE DATE: Fall 2016

FROM: MATH 876 – ~~Differential Topology. (3) H. Smooth manifolds; smooth maps; smooth partitions of unity; tangent spaces and tangent bundles; derivatives; inverse function theorem and applications; Morse functions; embedding theorems; orientations and orientability via tangent bundles; cotangent and exterior bundles; differential forms; integration on manifolds; vector fields and Lie derivatives; DeRham cohomology and DeRham’s theorem. Pr.: MATH 701.~~

TO: MATH 876 – Algebraic Topology II. (3) II, odd numbered years. Continuation of MATH 875. Fibrations, cofibrations, higher homotopy groups, characteristic classes, sheaves, rational homotopy theory, simplicial objects, spectra, K-theory. Pr.: MATH 875.

RATIONALE: Change to better match current research and the qualifying exams that we give our students.

EFFECTIVE DATE: Spring 2017

FROM: MATH 881- ~~Differentiable Manifolds I. (3) I. Differentiable structures, tangent bundles, tensor bundles, vector fields and differential equations, integral manifolds, differential forms, Stokes’ Theorem, DeRham cohomology, Riemannian metrics, introduction to Lie groups, topics in algebraic topology from differentiable viewpoint. Pr.: MATH 702.~~

TO: MATH 881 – Differential Topology. (3) I, odd numbered years. Tangent spaces and tensor bundles; derivatives; inverse function theorem, Sard’s theorem and applications; vector fields and flows; Morse functions; handle decompositions; embedding theorems; orientations and orientability via tangent bundles; intersection theory; cobordism theory. Pr.: MATH 771, MATH 722.

RATIONALE: Change to better match current research and the qualifying exams that we give our students.

EFFECTIVE DATE: Fall 2016

FROM: MATH 882 – ~~Differentiable Manifolds II. (3) II. Continuation of MATH 881. Pr.: MATH 881.~~

TO: MATH 882 – Differential Geometry. (3) II, even numbered years. Riemannian metrics, covariant derivatives, Gauss curvature, Riemann curvature; Gauss-Bonnet theorem; Exponential map and normal coordinates; The Hopf-Rinow Theorem; Jacobi fields; The Cartan-Hadamard Theorem; Ricci curvature and Myers’ and Bonnet’s Theorems; selected topics and Kähler geometry; symplectic topology; gauge theory. Pr.: MATH 771, MATH 722.

RATIONALE: Change to better match current research and the qualifying exams that we give our students.

EFFECTIVE DATE: Spring 2017

DROP: MATH 971 – Algebraic Topology I. (3) I. Homotopy groups, covering spaces, fibrations, homology, general cohomology theory and duality, homotopy theory. Pr.: MATH 702 and 811.

RATIONALE: This material is covered in a better way in other classes.

EFFECTIVE DATE: Fall 2016

DROP: MATH 972 – Algebraic Topology II. (3) II. Continuation of MATH 971.

RATIONALE: This material is covered in a better way in other classes.

EFFECTIVE DATE: Fall 2016

DROP: MATH 973 – Low-Dimensional Topology I – Geometric Topology. (3) I. Manifolds, triangulations, differentiable structures, wild vs. tame embeddings, the Jordan Curve theorem, Schonflies Theorems, the classification of compact surfaces, Dehn’s Lemma, the Triangulation Theorem and Hauptvermutung in dimensions 2 and 3, introduction to knot theory: knot groups, the Alexander polynomial, and related topics. Pr.: MATH 872 or 881.

RATIONALE: This material is covered in a better way in other classes.

EFFECTIVE DATE: Fall 2016

DROP: MATH 974 – Low- Dimensional Topology II – Quantum Topology. (3) II. Artin’s braid groups. Markov’s Theorem, the Jones Polynomial and its generalizations, state-sum invariants of knots and manifolds, skein-relations, quantum groups and categories of tangles, topological quantum field theories. Pr.: MATH 973 or consent of instructor.

RATIONALE: This material is covered in a better way in other classes.

EFFECTIVE DATE: Fall 2016

Psychological Sciences

FROM: PSYCH 802 – Psychological Research Design and Analysis I. (3) I. Introduction to techniques of research planning and design, including critical evaluation of psychological research practices and selected research studies. Pr.: STAT 325 or equivalent.

TO: PSYCH 802 - Psychological Research Design and Analysis I. (3) I. Introduction to techniques of research planning and design, including critical evaluation of psychological research practices and selected research studies. Pr.: STAT 325 or equivalent, and Psychology major or consent of instructor.

RATIONALE: Some other departments have requested to list the graduate psychology methods sequence (PSYCH 802/805) as an option within their curricula, which raises a need to be able to manage enrollment size.

IMPACT: Students outside of psychology will still be able to take this course, with instructor consent, up to the point of the course capacity. Exchanged emails with Dr. Junehee Kwon (Hosp. Management) on 10/27, Tem Steffensmeier (Comm. Studies) on 9/29.

EFFECTIVE DATE: Fall 2016

Statistics

FROM: STAT 726 – ~~Introduction to Splus/R Computing~~. (1) I. Topics may include basic environment and syntax, reading and importing data from files, data manipulation, basic graphics, and built-in and user-defined functions. Pr.: One graduate level course in statistics.

TO: STAT 726 – Introduction to R Computing. (1) I. Topics may include basic environment and syntax, reading and importing data from files, data manipulation, basic graphics, and built-in and user-defined functions. Pr.: One graduate level course in statistics.

RATIONALE: Change in course title to better reflect the content of the course.

IMPACT: Does not impact other departments

EFFECTIVE DATE: Fall 2016

EXPEDITED CURRICULUM PROPOSALS

Undergraduate

Art

B.F.A.

FROM:

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.~~

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 BFA in art is a four-year, 124-credit hour program with concentrations possible in ceramics, digital/experimental media, drawing, graphic design, metalsmithing and jewelry, painting, photography, printmaking, and sculpture. The degree is considered the appropriate preparation for the master of fine arts degree, which is recognized as the terminal degree in studio arts. The BA and the BFA can also be used as preparation for:

- A master's degree in art therapy when a portfolio of artwork is presented and additional coursework, generally consisting of 12 credits in psychology is completed. Required Psychology credits commonly include developmental and abnormal psychology; requirements for admission may include other preliminary coursework as defined by individual graduate programs.
- A master's degree in artistic and historic conservation. North

<p>Basic requirements (46 credit hours)</p> <p>Communications – 8 hours Social sciences – 6 hours Humanities – 9 hours Philosophy or mathematics – 3 hours 2 Sciences, one with a lab – 7-9 hours General electives – 13-14 hours</p> <p>Art courses (78 credit hours)</p> <p>Core – 40 credit hours Area of Concentration – 23 credit hours Art Electives – 15 credit hours</p> <p>B.F.A. Area Concentrations</p> <p>For a course to count as part of the 23 credit hours in a concentration for the B.F.A., students must earn a grade of C or higher.</p> <p>Concentration Admissions Review (CAR) acceptance is provisional for all students who have not completed at least one full semester</p>	<p><u>American education programs offer a master’s degree in conservation or historic preservation for a master’s degree in a related discipline along with a certificate or diploma in conservation. Many graduate programs in conservation of cultural property require preliminary coursework that commonly includes one year of general chemistry and one year of organic chemistry, courses in the humanities such as art history, anthropology, architecture, and archaeology, and coursework in studio art. Many programs also require a portfolio of art. Potential candidates should contact programs directly for admission requirements.</u></p> <p>Basic requirements (46 credit hours)</p> <p>Communications – 8 hours Social sciences – 6 hours Humanities – 9 hours Philosophy or mathematics – 3 hours 2 Sciences, one with a lab – 7-9 hours General electives – 13-14 hours</p> <p>Art courses (78 credit hours)</p> <p>Core – 40 credit hours Area of Concentration – 23 credit hours Art Electives – 15 credit hours</p> <p>B.F.A. Area Concentrations</p> <p>For a course to count as part of the 23 credit hours in a concentration for the B.F.A., students must earn a grade of C or higher.</p> <p>Concentration Admissions Review (CAR) acceptance is provisional for all students who</p>
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of class in their area with a grade of C or higher, since a grade of C or higher is required for all classes in the concentration. Students, who receive a grade of D or lower in their concentration class the semester they are accepted to CAR, will have to reapply through CAR after repeating or re-enrolling in this same concentration area class.

Ceramics Concentration (23 credit hours)

- ART 365 – Ceramics I **Credits:** (3)
- ART 410 – BFA Exhibition or Portfolio Presentation **Credits:** (2)
- ART 565 – Ceramics II **Credits:** (3)
(must be enrolled 3 times) **Credits:** (9)
- ART 665 – Ceramics III **Credits:** (1–5)
(must be enrolled 3 times) **Credits:** (9)
- ART 430 – Independent Study–Ceramics **Credits:** (1–5)
- May be substituted for ART 565 or ART 665 upon approval of Ceramics professors.

Digital Arts Concentration (23 credit hours)

- **Courses for 3 credits each:**
- ART 330 – Digital Techniques in Visual Art **Credits:** (3)
- ART 523 – Digital/Experimental Media Special Topics **Credits:** (3)
- ART 575 – Web Art **Credits:** (3)
- ART 623 – Advanced Concepts in Digital/Experimental Media (DX

have not completed at least one full semester of class in their area with a grade of C or higher, since a grade of C or higher is required for all classes in the concentration. Students, who receive a grade of D or lower in their concentration class the semester they are accepted to CAR, will have to reapply through CAR after repeating or re-enrolling in this same concentration area class.

Ceramics Concentration (23 credit hours)

- ART 365 – Ceramics I **Credits:** (3)
- ART 410 – BFA Exhibition or Portfolio Presentation **Credits:** (2)
- ART 565 – Ceramics II **Credits:** (3)
(must be enrolled 3 times) **Credits:** (9)
- ART 665 – Ceramics III **Credits:** (1–5)
(must be enrolled 3 times) **Credits:** (9)
- ART 430 – Independent Study–Ceramics **Credits:** (1–5)
- May be substituted for ART 565 or ART 665 upon approval of Ceramics professors.

Digital Arts Concentration (23 credit hours)

- **Courses for 3 credits each:**
- ART 330 – Digital Techniques in Visual Art **Credits:** (3)
- ART 523 – Digital/Experimental Media Special Topics **Credits:** (3)
- ART 575 – Web Art **Credits:** (3)
- ART 623 – Advanced Concepts in Digital/Experimental Media (DX

MEDIA) Credits: (3) (must be repeated for a total of 6 credit hours)

- **Choose 6 credit from the following 3 credit courses:**
- ART 290 – Type and Design Principles **Credits:** (3)
- ART 395 – Photography in Art I **Credits:** (3)
- ART 575 – Web Art **Credits:** (3) (repeated for the 2nd time)
- ART 582 – Internships in Visual Art & Design **Credits:** (0–3)
- ART 608 – Special Studies in Art **Credits:** (1–6) Digital classes
- ART 616 – Motion Design **Credits:** (3–6)
- ART 523 – Digital/Experimental Media Special Topics **Credits:** (3) (repeated for a 2nd time)
- ART 623 – Advanced Concepts in Digital/Experimental Media (DX **MEDIA) Credits:** (3) (repeated for a 3rd time)

Drawing Concentration (23 credit hours)

- ART 350 – Drawing III **Credits:** (3) (must be enrolled twice)
- ART 410 – BFA Exhibition or Portfolio Presentation **Credits:** (2)
- ART 600 – Advanced Drawing **Credits:** (~~3~~ or 6)
- ART 610 – Figure Drawing II **Credits:** (3)
- ART 600 or 610 or both may be repeated for the remaining 9 credit hours

MEDIA) Credits: (3) (must be repeated for a total of 6 credit hours)

- **Choose 6 credit from the following 3 credit courses:**
- ART 290 – Type and Design Principles **Credits:** (3)
- ART 395 – Photography in Art I **Credits:** (3)
- ART 575 – Web Art **Credits:** (3) (repeated for the 2nd time)
- ART 582 – Internships in Visual Art & Design **Credits:** (0–3)
- ART 608 – Special Studies in Art **Credits:** (1–6) Digital classes
- ART 616 – Motion Design **Credits:** (3–6)
- ART 523 – Digital/Experimental Media Special Topics **Credits:** (3) (repeated for a 2nd time)
- ART 623 – Advanced Concepts in Digital/Experimental Media (DX **MEDIA) Credits:** (3) (repeated for a 3rd time)

Drawing Concentration (23 credit hours)

- ART 350 – Drawing III **Credits:** (3) (must be enrolled twice)
- ART 410 – BFA Exhibition or Portfolio Presentation **Credits:** (2)
- ART 600 – Advanced Drawing **Credits:** (3)
- ART 610 – Figure Drawing II **Credits:** (3)
- ART 600 or 610 or both may be repeated for the remaining 9 credit hours

Graphic Design Concentration (23 credit hours)

- ART 290 – Type and Design Principles **Credits:** (3)
- ART 310 – Graphic Design Studio I **Credits:** (3)
- ART 400 – Computer Imaging in Graphic Design **Credits:** (3)
- ART 410 – BFA Exhibition or Portfolio Presentation **Credits:** (2)
- ART 420 – Graphic Design Studio II **Credits:** (3)
- ART 576 – Advanced Typography **Credits:** (3)
- ART 580 – Graphic Design Senior Studio **Credits:** (3) (Take twice for total of 6 credits)

Metalsmithing and Jewelry Concentration (23 credit hours)

- ART 370 – Metalsmithing I **Credits:** (3)
- ART 410 – BFA Exhibition or Portfolio Presentation **Credits:** (2)
- ART 655 – Metalsmithing Techniques **Credits:** (3) (must be enrolled 3 times)
- ART 680 – Metals Workshop **Credits:** (3) (enroll multiple times for a total of 9 credit hours)
- ART 450 – Independent Study–Metalsmithing **Credits:** (1–5)
- ART 655 or 680 may be substituted upon approval of Metalsmithing professors.

Graphic Design Concentration (23 credit hours)

- ART 290 – Type and Design Principles **Credits:** (3)
- ART 310 – Graphic Design Studio I **Credits:** (3)
- ART 400 – Computer Imaging in Graphic Design **Credits:** (3)
- ART 410 – BFA Exhibition or Portfolio Presentation **Credits:** (2)
- ART 420 – Graphic Design Studio II **Credits:** (3)
- ART 576 – Advanced Typography **Credits:** (3)
- ART 580 – Graphic Design Senior Studio **Credits:** (3) (Take twice for total of 6 credits)

Metalsmithing and Jewelry Concentration (23 credit hours)

- ART 370 – Metalsmithing I **Credits:** (3)
- ART 410 – BFA Exhibition or Portfolio Presentation **Credits:** (2)
- ART 655 – Metalsmithing Techniques **Credits:** (3) (must be enrolled 3 times)
- ART 680 – Metals Workshop **Credits:** (3) (enroll multiple times for a total of 9 credit hours)
- ART 450 – Independent Study–Metalsmithing **Credits:** (1–5)
- ART 655 or 680 may be substituted upon approval of Metalsmithing professors.

Painting Concentration (23 credit hours)

- ART 320 – Water Media I **Credits:** (3)
- ART 345 – Introduction to Oil Painting **Credits:** (3)
- ART 410 – BFA Exhibition or Portfolio Presentation **Credits:** (2)
- ART 561 – Oil Painting II **Credits:** (3)
- ART 570 – Mixed Media Painting Workshop **Credits:** (3)
- ART 650 – Advanced/Senior Painting Studio **Credits:** (3–6) (must be enrolled 3 times)

Photography Concentration (23 credit hours)

- ART 395 – Photography in Art I **Credits:** (3)
- ART 410 – BFA Exhibition or Portfolio Presentation **Credits:** (2)
- ART 563 – Photography in Art II **Credits:** (3–6)
- **Choose 6 credits from:**
 - ART 568 – Alternative Processes in Photography **Credits:** (3)
 - or
 - ART 621 – Advanced Concepts in Lens-Based Media **Credits:** (3)
 - ART 626 – Advanced Study in Photography **Credits:** (3–6) (9 credits total taken once in each last three semesters)

Painting Concentration (23 credit hours)

- ART 320 – Water Media I **Credits:** (3)
- ART 345 – Introduction to Oil Painting **Credits:** (3)
- ART 410 – BFA Exhibition or Portfolio Presentation **Credits:** (2)
- ART 561 – Oil Painting II **Credits:** (3)
- ART 570 – Mixed Media Painting Workshop **Credits:** (3)
- ART 650 – Advanced/Senior Painting Studio **Credits:** (3–6) (must be enrolled 3 times)

Photography Concentration (23 credit hours)

- ART 395 – Photography in Art I **Credits:** (3)
- ART 410 – BFA Exhibition or Portfolio Presentation **Credits:** (2)
- ART 563 – Photography in Art II **Credits:** (3–6)
- **Choose 6 credits from:**
 - ART 568 – Alternative Processes in Photography **Credits:** (3)
 - or
 - ART 621 – Advanced Concepts in Lens-Based Media **Credits:** (3)
 - ART 626 – Advanced Study in Photography **Credits:** (3–6) (9 credits total taken once in each last three semesters)

Printmaking Concentration (23 credit hours)

- ART 335 – Printmaking I **Credits:** (3)
- ART 410 – BFA Exhibition or Portfolio Presentation **Credits:** (2)
- ART 635 – Advanced Printmaking **Credits:** (3–6) (must be enrolled 4 times) **Credits:** (12)
- ART 530 – Color Printmaking Workshop **Credits:** (3) (may be taken twice instead of repeating ART 635 two more times) **Credits:** (6)

Printmaking Concentration (23 credit hours)

- ART 335 – Printmaking I **Credits:** (3)
- ART 410 – BFA Exhibition or Portfolio Presentation **Credits:** (2)
- ART 635 – Advanced Printmaking **Credits:** (3–6) (must be enrolled 4 times) **Credits:** (12)
- ART 530 – Color Printmaking Workshop **Credits:** (3) (may be taken twice instead of repeating ART 635 two more times) **Credits:** (6)

Sculpture Concentration (23 credit hours)

- ART 340 – Sculpture I **Credits:** (3)
- ART 410 – BFA Exhibition or Portfolio Presentation **Credits:** (2)
- **Choose 6 additional credit hours** from either ART 645 or ART 660 **Credits:** (6)
- ART 645 – Sculpture II **Credits:** (3)
- ART 660 – Sculpture III **Credits:** (3)

Sculpture Concentration (23 credit hours)

- ART 340 – Sculpture I **Credits:** (3)
- ART 410 – BFA Exhibition or Portfolio Presentation **Credits:** (2)
- **Choose 6 additional credit hours** from either ART 645 or ART 660 **Credits:** (6)
- ART 645 – Sculpture II **Credits:** (3)
- ART 660 – Sculpture III **Credits:** (3)

Bachelor of Fine Arts 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 foundation courses (25 credit hours) will be

Bachelor of Fine Arts 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 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

(Choices must total 25 hours; and be taken prior to or in concurrent semester when a student goes through Concentration Admission Review.)

- ART 105 – Art Careers Seminar **Credits:** (1)
- ART 180 – 2- Dimensional Design **Credits:** (3)
- ART 190 – Drawing I **Credits:** (3)

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

(Choices must total 25 hours; and be taken prior to or in concurrent semester when a student goes through Concentration Admission Review.)

- ART 105 – Art Careers Seminar **Credits:** (1)
- ART 180 – 2- Dimensional Design **Credits:** (3)
- ART 190 – Drawing I **Credits:** (3)

<ul style="list-style-type: none"> • ART 200 – 3- Dimensional Design Credits: (3) • ART 210 – Drawing II Credits: (3) • Choose one 3D course: • ART 340 – Sculpture I Credits: (3) • or • ART 365 – Ceramics I Credits: (3) • or • ART 370 – Metalsmithing I Credits: (3) • Choose one Digital course: • ART 290 – Type and Design Principles Credits: (3) • or • ART 330 – Digital Techniques in Visual Art Credits: (3) • or • ART 395 – Photography in Art I Credits: (3) • Choose one 2D course: • ART 290 – Type and Design Principles Credits: (3) • or • ART 320 – Water Media I Credits: (3) • or • ART 335 – Printmaking I Credits: (3) • or • ART 345 – Introduction to Oil Painting Credits: (3) • or • ART 395 – Photography in Art I Credits: (3) <p>Choose ART 325 Figure Drawing I or any other Art Elective</p>	<ul style="list-style-type: none"> • ART 200 – 3- Dimensional Design Credits: (3) • ART 210 – Drawing II Credits: (3) • Choose one 3D course: • ART 340 – Sculpture I Credits: (3) • or • ART 365 – Ceramics I Credits: (3) • or • ART 370 – Metalsmithing I Credits: (3) • Choose one Digital course: • ART 290 – Type and Design Principles Credits: (3) • or • ART 330 – Digital Techniques in Visual Art Credits: (3) • or • ART 395 – Photography in Art I Credits: (3) • Choose one 2D course: • ART 290 – Type and Design Principles Credits: (3) • or • ART 320 – Water Media I Credits: (3) • or • ART 335 – Printmaking I Credits: (3) • or • ART 345 – Introduction to Oil Painting Credits: (3) • or • ART 395 – Photography in Art I Credits: (3) <p>Choose ART 325 Figure Drawing I or any other Art Elective</p>
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(Note that ART 325 Figure Drawing I is a requirement, so if not taken before CAR, it must be taken after CAR.)

Any course that is required for 23 credits in a concentration must be replaced with a different foundation elective, preferably in the next semester after being accepted into a concentration.

Additional requirements

- Area concentration **Credits:** (23)
- Art electives **Credits:** (15)
- ART 325 – Figure Drawing I **Credits:** (3)
- Students are encouraged to take this course prior to CAR
- ART 410 – BFA Exhibition or Portfolio Presentation **Credits:** (2)
- 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)
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- **Choose two from the following:**
- 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)

(Note that ART 325 Figure Drawing I is a requirement, so if not taken before CAR, it must be taken after CAR.)

Any course that is required for 23 credits in a concentration must be replaced with a different foundation elective, preferably in the next semester after being accepted into a concentration.

Additional requirements

- Area concentration **Credits:** (23)
- Art electives **Credits:** (15)
- ART 325 – Figure Drawing I **Credits:** (3)
- Students are encouraged to take this course prior to CAR
- ART 410 – BFA Exhibition or Portfolio Presentation **Credits:** (2)
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- ART 196 – Survey of Art History II **Credits:** (3)
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- ART 603 – Twentieth Century Art History IV **Credits:** (3)

<p>Notes</p> <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 credit hours required for graduation: (124)</p>	<p>Notes</p> <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 credit hours required for graduation: (124)</p>
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RATIONALE: Based on a conversation with the Emporia State MS Art Therapy Counseling Program, the only accredited program in the Kansas system, it was determined that the relationship between the BFA degree and pre-requisite for admission to the Master’s program needed to be clarified.

IMPACT: None

EFFECTIVE DATE: Fall 2016

College of Arts and Sciences
Arts and Sciences Basic 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>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>
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Common degree requirements

(Three courses, 8 credit hours minimum)

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.

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(Three courses, 8 credit hours minimum)

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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.

<p>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.</p> <p>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 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><i>Humanities</i></p>	<p>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.</p> <p>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 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><i>Humanities</i></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 120, 165, 171, 181, 460, 503, or 507 • Dean of Arts & Sciences—DAS 100 	<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 • <u>Art - Any course</u> • Dance—DANCE 120, 165, 171, 181, 460, 503, or 507 • Dean of Arts & Sciences—DAS 100 • Environmental Design - ENVD 210 • Music—MUSIC 100, 112, 170, 210, 220, 230, 245, 249, 250, 255, 280,

<ul style="list-style-type: none"> • Environmental Design – ENVD 210 • 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> <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, 234, 260, 270, 285, 287, 297, 315, 330, 335, 340, 345, 350, 385, 386, 387, 388, 389, 390, 470, 490, 525, 570, or 575 • 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 	<p>310, 385, 420, 424, 455, 480, 570, 601, or 650.</p> <ul style="list-style-type: none"> • 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 <u>105</u>, 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> <ul style="list-style-type: none"> • American Ethnic Studies—AMETH 160, <u>351, 352, 353, 354</u>, 449, 450, 501, or 560 • <u>POLSC 115, or 135</u> • Constitutional Law—POLSC 614, 615, or 799 • Dean of Arts & Sciences—DAS 300 • English—ENGL 230, 231, 233, 234, 260, 270, 285, 287, 297, <u>309</u> 315, 330, 335, 340, 345, 350, 385, 386, 387, 388, 389, 390, 470, 490, <u>501</u> 525, 570, or 575 • 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
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- 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
- Theatre—THTRE 572 or 573
- Women’s Studies—WOMST 105, 205, 410, 480, 500, 551, or 610

Literary or rhetorical arts (one course)

Purpose: to ensure some interpretive or expressive competence in a traditional literary or rhetorical mode of artistic expression.

Choose from the following:

- 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
- Women’s Studies—WOMST 450

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.

Social science

- 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, 537, or 538
- Theatre—THTRE 572 or 573
- Women’s Studies—WOMST 105, 205, 410, 480, 500, 551, or 610

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Purpose: to ensure some interpretive or expressive competence in a traditional literary or rhetorical mode of artistic expression.

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- 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
- Women’s Studies—WOMST 450

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.

Social science

<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, 576, 585, 600, 612, 623, or 670 • Political Science—any course • Psychology—any course • Sociology—any course • Social Work—SOCWK 510 <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 345, 520, or 660 • 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 435 • Linguistics—any course except LG 601 	<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 • <u>ANTH 220</u> • 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, 576, 585, 600, 612, 623, or 670 • Political Science—any course • Psychology—any course • Sociology—any course • Social Work—SOCWK 510 <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 345, 520, or 660 • 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 435 • Linguistics—any course except LG 601
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- Women’s Studies—WOMST 105, 205, 300, 450, 480, 500, 551, 590, or 610

Natural sciences

BS Degree: Four courses, 14 credit hours minimum.

BA Degree: Three courses, 11 credit hours minimum.

1. Life Sciences with a lab
2. Physical Sciences with a lab
3. Life or Physical Sciences, including additional Natural Science

Life science (one 3- or 4-hour course with laboratory)

Purpose: to introduce students to the systematic study of organisms and their interrelationships.

Choose from the following:

- Biochemistry—any course
- Biology—any course
- Paleobiology—GEOL 581 or 704
- Physical anthropology—ANTH 280, 680, ~~684~~, 688, 691, 694, or 695

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.

Choose from the following:

- Biochemistry—BIOCH 265 to 799
- Chemistry—any course
- Physical geography—GEOG 221, 235, 445, 535, 735, or 740
- Geology—any course except GEOL 581 or 704

- Women’s Studies—WOMST 105, 205, 300, 450, 480, 500, 551, 590, or 610

Natural sciences

BS Degree: Four courses, 14 credit hours minimum.

BA Degree: Three courses, 11 credit hours minimum.

1. Life Sciences with a lab
2. Physical Sciences with a lab
3. Life or Physical Sciences, including additional Natural Science

Life science (one 3- or 4-hour course with laboratory)

Purpose: to introduce students to the systematic study of organisms and their interrelationships.

Choose from the following:

- Biochemistry—any course
- Biology—any course
- Paleobiology—GEOL 581, 650, or 704
- Physical anthropology—ANTH 280, 333, 680, 688, 691, 692, 694, 695, or 696.

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.

Choose from the following:

- Biochemistry—BIOCH 265 to 799
- Chemistry—any course
- Physical geography—GEOG 221, 235, 445, 535, 735, or 740

<ul style="list-style-type: none"> • Physics—any course <p>Additional Natural Sciences (for 3rd requirement only)</p> <ul style="list-style-type: none"> • Entomology – ENTOM 301 • 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><u><i>International studies overlay</i></u></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</p>	<ul style="list-style-type: none"> • Geology—any course except GEOL 581 or 704 • Physics—any course <p>Additional Natural Sciences (for 3rd requirement only)</p> <ul style="list-style-type: none"> • <u>ANTH 330, 333, 530, 532, or 697</u> • Entomology – ENTOM 301 • 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><u><i>International studies overlay</i></u></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>
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<p>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, 345,505, 508, 511, 512, 514, 515, 516, 517, 523, 536, 545, 550, 604, 618, 630, 634, 673, 676, or 792 • Communication Studies—COMM 480, 756, or 780 • Dean of Arts and Sciences—DAS 507, or 525 • Economics—ECON 505, 507, 536, 681, or 682 • English—ENGL 280, or 580 • Environmental Design – ENVD 210 • 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, 571, 576, 577, 578, 591, 592, 593, or 598 • Mass Communications—MC 572, 623, 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, 540, 541, 543, 545, 549, 622, 	<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, 345,505, 508, 511, 512, 514, 515, 516, 517, 523, 536, 545, 550, 604, 618, 630, 634, <u>650</u>,673, 676, <u>790</u> or 792 • Communication Studies—COMM 480, 756, or 780 • Dean of Arts and Sciences—DAS 507, or 525 • Economics—ECON 505, 507, 536, 681, or 682 • English—ENGL 280, or 580 • Environmental Design – ENVD 210 • Geography—GEOG 100, 200, 201, 505, 620, 622, 640, 650, or 715 • History—<u>HIST 111</u>, 112, 250, 303, 330, 332, 501, 504, 505, 509, 510, 514, 543, 544, 545, 560, 561, 562, 571, 576, 577, 578, 591, 592, 593, or 598 • Mass Communications—MC 572, 623, 662, or 725 • Management—MANGT 690 • Marketing—MKTG 544
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<p>623, 624, 626, 627, 629, 642, 643, 645, 647, 651, 652, 653, or 655</p> <ul style="list-style-type: none"> • Sociology—SOCIO 363, 505, 507, 522, 535, 618, 635, or 742 • Women’s Studies—WOMST 380 405, 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><i>Additional requirements for the BA</i></p>	<ul style="list-style-type: none"> • Modern Languages—Any Level 4 or above language course in French, German, and Spanish, including translation courses • Political Science—POLSC 333, 505, 511, 540, 541, 543, 545, 549, 622, 623, 624, 626, 627, 629, 642, 643, 645, 647, 651, 652, 653, or 655 • Sociology—SOCIO 363, 505, 507, 522, 535, 618, 635, or 742 • Women’s Studies—WOMST 380 405, 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><i>Additional requirements for the BA</i></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 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 (<u>Latin 141 and 142</u>, 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</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 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 (<u>Latin 101 and 102</u>, 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</p>

there is a mathematics prerequisite)
Purpose: to give students a college-level competence in mathematical reasoning and analysis.

Any course used to satisfy this requirement cannot be used to satisfy any other general education requirement.

Additional requirements for the BS

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.

Courses that qualify are those listed earlier under natural sciences, and:

- Kinesiology—KIN 330, 335, or 650
- Psychology—PSYCH 470 or 480

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.

A course that satisfies this requirement may at the same time be used to satisfy any major requirement for which it qualifies. Students may fulfill this requirement ONE of three ways:

1. Three courses, 9 credit hours minimum, selected from:
Computer science—CIS 111, 200 level or above

there is a mathematics prerequisite)
Purpose: to give students a college-level competence in mathematical reasoning and analysis.

Any course used to satisfy this requirement cannot be used to satisfy any other general education requirement.

Additional requirements for the BS

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.

Courses that qualify are those listed earlier under natural sciences, and:

- Kinesiology—KIN 330, 335, or 650
- Psychology—PSYCH 470 or 480

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.

A course that satisfies this requirement may at the same time be used to satisfy any major requirement for which it qualifies. Students may 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

<p>Mathematics—MATH 100 level or above Philosophy—PHILO 110, 112, 320, or 510 Statistics—any course</p> <p>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 MATH 100)</p> <p>3. Equivalent competency: Competency may be demonstrated by taking two Level II courses or a Level III course from:</p> <p>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</p> <p>Level III courses (one course): Computer science—CIS 300 Mathematics—MATH 220 Philosophy—PHILO 701 Statistics—STAT 341, 351, 704, or 705</p>	<p>above Philosophy—PHILO 110, 112, 320, or 510 Statistics—any course</p> <p>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 MATH 100)</p> <p>3. Equivalent competency: Competency may be demonstrated by taking two Level II courses or a Level III course from:</p> <p>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</p> <p>Level III courses (one course): Computer science—CIS 300 Mathematics—MATH 220 Philosophy—PHILO 701 Statistics—STAT 341, 351, 704, or 705</p>
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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 may not be applied to dual majors, who are students seeking two majors within the College of Arts and Sciences.

Dual degree seeking BA students must fulfill the requirements for the College of Arts and Sciences listed under Additional Requirements of the BA, except for the Mathematics requirement. They must fulfill all the requirements in at least one of the three other required areas (Humanities, Social Science, or Natural Science), 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.

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.

Dual degree seeking students must meet the International Studies Overlay requirement.

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 may not be applied to dual majors, who are students seeking two majors within the College of Arts and Sciences.

Dual degree seeking BA students must fulfill the requirements for the College of Arts and Sciences listed under Additional Requirements of the BA, except for the Mathematics requirement. They must fulfill all the requirements in at least one of the three other required areas (Humanities, Social Science, or Natural Science), 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.

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.

Dual degree seeking students must meet the International Studies Overlay requirement.

<p>Half of the distribution requirements in each area are:</p> <p>Humanities</p> <p>One course from Philosophy (3 credits) and one course in the Fine Arts, Western Heritage, or Literary or Rhetorical Arts (3 credits).</p> <p>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.</p> <p>Social Science</p> <p>Two courses, 6 credit hours, from two disciplines.</p> <p>Natural Sciences</p> <p>BS or BA Degrees, 7 credit hours minimum, from two disciplines.</p> <p>Any science course with lab, and one other science course from a different discipline.</p> <p>Additional Requirements for BS</p> <p>At least 2 courses or 6 credit hours from option 1 or any Level II or Level III course listed under option 3.</p> <p>No additional Natural Sciences requirement. Any course used to satisfy this requirement cannot be used to satisfy any other general education requirement.</p>	<p>Half of the distribution requirements in each area are:</p> <p>Humanities</p> <p>One course from Philosophy (3 credits) and one course in the Fine Arts, Western Heritage, or Literary or Rhetorical Arts (3 credits).</p> <p>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.</p> <p>Social Science</p> <p>Two courses, 6 credit hours, from two disciplines.</p> <p>Natural Sciences</p> <p>BS or BA Degrees, 7 credit hours minimum, from two disciplines.</p> <p>Any science course with lab, and one other science course from a different discipline.</p> <p>Additional Requirements for BS</p> <p>At least 2 courses or 6 credit hours from option 1 or any Level II or Level III course listed under option 3.</p> <p>No additional Natural Sciences requirement. Any course used to satisfy this requirement cannot be used to satisfy any other general education requirement.</p>
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RATIONALE: Three new courses were added in 2014-2015 that are recommended to be listed as fulfilling the Natural Sciences requirements for the College of Arts and Sciences. The courses are ANTH 333- Plagues, ANTH 692 – Human Growth and Development, and ANTH 696 – Bioarchaeology. History would like HIST 111 – World History to

1450 added to the International Overlay. Also, we are making a correction to the Humanities Philosophy requirements.

IMPACT: The College of Technology and Aviation has been notified about the Philosophy change and are in agreement.

EFFECTIVE DATE: Fall 2016

EXPEDITED CURRICULUM PROPOSALS

Graduate

Geographic Information Science Graduate Certificate

FROM:

TO:

Elective courses – select two (minimum of 6 credit hours)	Elective courses – select two (minimum of 6 credit hours)
<p>In addition to the Geospatial Core courses, students enrolled in the Graduate Certificate in GIScience program must take a minimum of 6 additional credit hours of electives consisting of courses in intermediate/advanced GIScience or application courses with a major emphasis on the use of geospatial technologies. Elective requirements may be satisfied from the following course list or, in some instances, be met through special topics or independent study courses with significant geospatial content (must be approved by the certificate coordinator).</p>	<p>In addition to the Geospatial Core courses, students enrolled in the Graduate Certificate in GIScience program must take a minimum of 6 additional credit hours of electives consisting of courses in intermediate/advanced GIScience or application courses with a major emphasis on the use of geospatial technologies. Elective requirements may be satisfied from the following course list or, in some instances, be met through special topics or independent study courses with significant geospatial content (must be approved by the certificate coordinator).</p>
<ul style="list-style-type: none"> • AGRON 655 - Site Specific Agriculture Credits: (3) • CE 585 - Civil Engineering Project Credits: (1-3) • CE 752 – Advanced Hydrology (3) • CE 786 – Land Development for Civil Engineers and Planners (3) • CIS 501 - Software Architecture and Design Credits: (3) • CIS 560 - Database System Concepts Credits: (3) • CIS 635 - Introduction to Computer-Based Knowledge Systems Credits: (3) • CIS 636 - Introduction to Computer Graphics Credits: (3) • GEOG 560 – Field Methods (3) • GEOG 602 – Computer Mapping and Geographic Visualization (3) • GEOG 610 - Geography Internship Credits: (Var.) • GEOG 700 - Quantitative Analysis in Geography Credits: (3) • GEOG 711 - Topics in Remote Sensing Credits: (3) • GEOG 712 – Internet GIS and Distributed GIServices Credits: (3) 	<ul style="list-style-type: none"> • AGRON 655 - Site Specific Agriculture Credits: (3) • CE 585 - Civil Engineering Project Credits: (1-3) • CE 752 – Advanced Hydrology (3) • CE 786 – Land Development for Civil Engineers and Planners (3) • CIS 501 - Software Architecture and Design Credits: (3) • CIS 560 - Database System Concepts Credits: (3) • CIS 635 - Introduction to Computer-Based Knowledge Systems Credits: (3) • CIS 636 - Introduction to Computer Graphics Credits: (3) • GEOG 560 – Field Methods (3) • GEOG 602 – Computer Mapping and Geographic Visualization (3) • GEOG 610 - Geography Internship Credits: (Var.) • GEOG 700 - Quantitative Analysis in Geography Credits: (3) • GEOG 711 - Topics in Remote Sensing Credits: (3) • GEOG 712 – Internet GIS and Distributed GIServices Credits: (3) • <u>GEOG 728 – Topics in Programming for Geographic Analysis (3)</u>

<ul style="list-style-type: none"> • GEOG 795 – Topics in Geographic Information Science Credits: (3) • GEOG 808 – Geocomputation Credits: (3) • GEOG 880 – Spatial Data Analysis and Modeling Credits: (3) • GEOG 895 – Topics in Spatial Analysis Credits: (3) • LAR 704 – Environmental Landscape Planning and Design (5) • PLAN 801 – Planning Methods I (3) • PLAN 836 – Community Plan Preparation (3) • STAT 703 – Intro to Statistical methods for the Sciences (3) • STAT 705 – Regression and Analysis of Variance (3) 	<ul style="list-style-type: none"> • GEOG 795 – Topics in Geographic Information Science Credits: (3) • GEOG 808 – Geocomputation Credits: (3) • GEOG 880 – Spatial Data Analysis and Modeling Credits: (3) • GEOG 895 – Topics in Spatial Analysis Credits: (3) • LAR 704 – Environmental Landscape Planning and Design (5) • PLAN 801 – Planning Methods I (3) • PLAN 836 – Community Plan Preparation (3) • STAT 703 – Intro to Statistical methods for the Sciences (3) • STAT 705 – Regression and Analysis of Variance (3)
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RATIONALE: This document is a proposal to add one new courses that meets the program’s elective requirement.

IMPACT: None

EFFECTIVE DATE: Fall 2016