Meeting of the College Academic Council  
College of Liberal Arts & Sciences  
210 Strong Hall  
April 8, 2008 - 4:00 p.m.

AGENDA

I. APPROVAL OF THE MARCH 2008 CAC MINUTES

II. REPORT OF THE COMMITTEE ON UNDERGRADUATE STUDIES & ADVISING (CUSA)  
Submitted by Carol Miner, Presented by Robert Carlson

A. Curricular Changes for Approval:  BIOL 571, HIST 629, HIST 630, LING 110, PLSH 104, PSYC 651, PSYC 679, PSYC 687, PSYC 692, PSYC 693, PSYC 694, PSYC 695, PSYC 696, UYGR 102, UYGR 104, UYGR 108, UYGR 201, UYGR 202

B. Degree Requirements/Policy Changes for Approval: Change to BA in Human Biology

C. Other Business:

1. Proposal to limit the number of non-CLA&S elective hours allowed to count towards a CLA&S degree.
2. Proposal for implementation dates of the General Education requirements

III. REPORT OF THE COMMITTEE ON GRADUATE STUDIES (CGS)  
Submitted by Anne Sawyer, Presented by Julie Kaarbo

A. Curricular Changes for Approval: BIOL 848, ENGL 730, ENGL 885, GEOL 751, LA&S 700, PHIL 835, PHIL 852, PHIL 855, PHIL 860, PHIL 862, PHIL 868, PHIL 870, PHIL 872, PHIL 877, PHIL 880, PHIL 884, PHIL 888, PSYC 737, PSYC 886, PSYC 887, PSYC 889, PSYC 892, PSYC 893, PSYC 895, PSYC 896, PUAD 835, PUAD 837, PUAD 855, TH&F 818

B. New degrees for approval

1. PhD in Bioinformatics
2. Masters in Atmospheric Science

IV. CHANGES TO COLLEGE BYLAWS  
Presented by Rebecca Peterson
I. APPROVAL OF THE MARCH 2008 CAC MINUTES

College of Liberal Arts & Sciences
College Academic Council
March 11, 2008
Minutes

Committee Members in attendance include: Jim Mielke, Ray Hummert, Chris Haufier, Christie Jones, Terry Slocum

Others in attendance include: Joseph Steinmetz, Robert Carlson, Juliet Kaarbo, Danny Anderson, Paul D’Anieri, Rob Weaver, Barbara Romzek, Rebecca Peterson, Kim McNeley, Abby Lee

- The meeting was called to order by Dean Steinmetz.
- CAC unanimously approved the February 2008 CAC minutes.

- CAC unanimously approved a recommendation from CUSA for curricular changes to the following courses: AAAS 302, AAAS 611, AAAS 630, ABSC 100, AMHR 110, AMHR 120, AMHR 210, AMHR 220, ASTR 294, ASTR 596, ATMO 606, ATMO 634, EALC 380, EALC 580, ENGL 359, ENGL 400, ENGL 521, ENGL 578, ENGL 579, ENGL 679, ENGL 690, HAIT 300, HIST 333, HIST 451, HIST 452, HIST 453, HIST 454, INS 101, INS 504, INS 510, ITAL 107, ITAL 108, KOR 504, KOR 508, LA&S 400, POLS 330, POLS 331, PSYC 299, PUAD 330, PUAD 331, REL 406, TH&F 518, TH&F 519, TH&F 618, TH&F 619, TH&F 620

- CAC unanimously approved a recommendation from CUSA a new option for the B.S. in Geology—an Earth & Space Science Licensure Option.

- CAC unanimously approved a recommendation from CUSA to grant the courses AAAS 104 and ECON 110 principal course status.

- CAC unanimously approved a recommendation from CUSA to grant the following courses Non-Western Culture status: EALC 380, EALC 580, HAIT 300, INS 101, INS 504, INS 510

- CAC unanimously approved a recommendation from CUSA for a new minor in Public Administration.

- CAC unanimously approved a recommendation from CUSA for a new minor in Political Science, Public Policy in the U.S.

- CAC unanimously approved a recommendation from CGS for curricular changes to the following courses: GEOL 751, GEOL 752, GEOL 753, GEOL 754, GEOL 851, GEOL 852, GEOL 853, GEOL 854

- Dean Steinmetz also reminded the committee of the upcoming revisions to the College’s bylaws. After CAC receives and discusses the suggested revisions to the bylaws, they will be taken to the College Assembly for discussion and vote.

- The meeting was adjourned at 4:20 p.m.

- The next CAC meeting will be Tuesday, April 8 at 4:00 p.m. in 210 Strong Hall.
II. REPORT OF THE COMMITTEE ON UNDERGRADUATE STUDIES & ADVISING (CUSA)

A. Curricular Changes for Approval

BIOLOGY

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<tr>
<th>COURSE</th>
<th>OLD/NEW</th>
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<tbody>
<tr>
<td>BIOL 571</td>
<td>(OLD)</td>
<td>INTRODUCTION TO BIOSTATISTICS LABORATORY 1 U Introductory statistical analyses on microcomputers. Introduction to the operating system; data entry and export; simple graphs and exploratory data analysis; descriptive statistics; sampling; point and interval estimation; one and two sample t-tests; Chi-square; regression and correlation; analysis of variance; and nonparametric methods. Prerequisite: BIOL 570 or equivalent.</td>
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<tr>
<td>BIOL 571</td>
<td>(NEW)</td>
<td>INTRODUCTION TO BIOSTATISTICS LABORATORY 2 U Introductory statistical analyses on microcomputers. Data entry and export; simple graphs and exploratory data analysis; descriptive statistics; sampling; point and interval estimation; one and two sample t-tests; Chi-square; regression and correlation; analysis of variance; and nonparametric methods. Prerequisite: BIOL 570 or equivalent (may be taken concurrently).</td>
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EAST ASIAN LANGUAGES & CULTURES

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<tr>
<th>COURSE</th>
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<tr>
<td>UYGR 102</td>
<td>(OLD)</td>
<td>ELEMENTARY UYGHUR II 3 H Continuation of Uygr 101. Prerequisite: UYGR 101. This course does not count toward fulfillment of the College of Liberal Arts and Sciences foreign language requirement.</td>
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<tr>
<td>UYGR 104</td>
<td>(OLD)</td>
<td>ELEMENTARY UYGHUR 5 U Uyghur is an important Central Asian Turkic language spoken by nine million people in China. The first semester is designed to give the student basic communicative competency, including pronunciation and intonation, structure, and syntax. Effective oral and written communication is stressed.</td>
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<tr>
<td>UYGR 101</td>
<td>(NEW)</td>
<td>ELEMENTARY UYGHUR I 3 U Uyghur is an important Central Asian Turkic language spoken by nine million people in China. The first semester is designed to give the student basic communicative competency, including pronunciation and intonation, structure, and syntax. Effective oral and written communication is stressed. This course does not count toward fulfillment of the College of Liberal Arts and Sciences foreign language requirement.</td>
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<tr>
<td>UYGR 108</td>
<td>(OLD)</td>
<td>ELEMENTARY UYGHUR II 5 U Uyghur is an important Central Asian Turkic language spoken by nine million people in China. The second semester continues building on basic communicative competency, expanding communicative domains, vocabulary, and structural range. Effective oral and written communication are stressed. Prerequisite: UYKGR 104</td>
</tr>
<tr>
<td>UYGR 201</td>
<td>(NEW)</td>
<td>INTERMEDIATE UYGHUR I 3 U Continuation of UYGR 102. Prerequisite: UYGR 102 or equivalent. This course does not count toward fulfillment of the College of Liberal Arts and Sciences foreign language requirement.</td>
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<td>UYGR 201</td>
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<td>INTERMEDIATE UYGHUR I 3 U Continuation of UYGR 102. Prerequisite: UYGR 102 or equivalent. This course does not count toward fulfillment of the College of Liberal Arts and Sciences foreign language requirement.</td>
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<tr>
<td>Course Code</td>
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<tr>
<td>UYGR 202</td>
<td>INTERMEDIATE UYGHUR II, 3 U</td>
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**HISTORY**

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**LINGUISTICS**

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<tr>
<td>LING 110</td>
<td>LANGUAGE AND MIND 3 S, SI</td>
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<td>(OLD) A study of the relation between language and the human mind, focusing on what it means to &quot;know&quot; a language, the roots of language knowledge, and the relation between language knowledge and other cognitive systems. Additional topics include what is innate and what is learned during language acquisition, and how language is organized as a system of separate units or modules.</td>
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<tr>
<td>LING 110</td>
<td>LANGUAGE AND MIND 3 S, SI</td>
<td></td>
<td>(NEW) A study of the relation between language and the human mind, focusing on language as a fundamental aspect of human cognition. Topics include what is innate and what is learned during first and second language acquisition, how we process language, and whether there are areas of the brain specialized for language.</td>
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**PSYCHOLOGY**

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<tr>
<td>PSYC 651</td>
<td>STATISTICAL METHODS IN BEHAVIORAL AND SOCIAL SCIENCES RESEARCH II 4 S</td>
<td></td>
<td>(OLD) Continuation of PSYC 650. One-way analysis of variance, linear trends, contrasts, post hoc tests; multi-way analysis of variance for crossed, blocked, nested, and incomplete design; analysis of covariance; repeated measures analysis of variance; general linear</td>
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model. Applications across the social, educational, and behavior sciences are emphasized. Course consists of three hours of lecture and a required one-hour lab session where computing applications are taught. Students taking this course as PSYC 791 will have different course requirements. Prerequisite: A grade of B or better in PSYC 650 or equivalent is recommended, or consent of instructor.

PSYC 651
STATISTICAL METHODS IN BEHAVIORAL AND SOCIAL SCIENCES
RESEARCH II 4 S
One-way analysis of variance, linear trends, contrasts, post hoc tests; multi-way analysis of variance for crossed, blocked, nested, and incomplete design; analysis of covariance; repeated measures analysis of variance; general linear model. Applications across the social, educational, and behavioral sciences are emphasized. Course consists of three hours of lecture and a required one-hour lab session where computing applications are taught. Students taking this course as PSYC 791 will have different course requirements. Prerequisite: PSYC 650 or equivalent, or consent of instructor.

CHANGE: NEW COURSE
PSYC 679
APPLIED NONPARAMETRIC STATISTICAL METHODS 4 S
This course covers nonparametric statistical methods for testing hypotheses when the assumptions of ordinary parametric statistics are not met. Topics include a review of parametric statistics, sampling distributions, the logic of hypothesis testing, and motivations for using nonparametric techniques. There is an emphasis on the theory underlying nonparametric methods. Applications across the behavioral and social sciences are emphasized. Course consists of three hours of lecture and a required one-hour lab session where computing applications are taught. Students taking this course as PSYC 889 will have different course requirements. Prerequisites: PSYC 650 or equivalent, or consent of instructor.

CHANGE: NEW COURSE
PSYC 687
FACTOR ANALYSIS 4 S
This course covers the theory behind, and application of, exploratory factor analysis. Topics include a review of multiple linear regression and matrix algebra. In-depth coverage is devoted to diagrams, model specification, goodness of fit, model selection, parameter estimation, rotation methods, scale development, and sample size and power issues. Extensions to confirmatory settings are elaborated. Both the theory underlying factor analytic techniques and hands-on application using software are emphasized. Applications across the social and behavioral sciences are emphasized. Course consists of three hours of lecture and a required one-hour lab session where computing applications are taught. Students taking this course as PSYC 887 will have different course requirements. Prerequisites: PSYC 650 or equivalent, or consent of instructor.

CHANGE: PREREQUISITE
PSYC 692
TEST THEORY 4 S
(OLD) An introductory course that takes a unified approach (from classical and modern test theory) to the topic of measurement in the behavioral and social sciences. Content covered includes the construction and administration of psychological tests (e.g., intelligence, achievement, and personality; practice in test construction, administration, and validation; and how to assess the reliability and generalizability of an instrument. Applications across the social and behavior sciences are emphasized. Course consists of three hours of lecture and a required one-hour lab session where computing applications are taught. Students taking this course as PSYC 892 will have different course requirements. Prerequisite: A grade of B or better in PSYC 650 and PSYC 651 or equivalent is recommended, or consent of instructor.

PSYC 692
TEST THEORY 4 S
(NEW) An introductory course that takes a unified approach (from classical and modern test theory) to the topic of measurement in the behavioral and social sciences. Content covered includes the construction and administration of psychological tests (e.g.,
intelligence, achievement, and personality; practice in test construction, administration, and validation; and how to assess the reliability and generalizability of an instrument. Applications across the social and behavior sciences are emphasized. Course consists of three hours of lecture and a required one-hour lab session where computing applications are taught. Students taking this course as PSYC 892 will have different course requirements. Prerequisite: PSYC 650 or equivalent, or consent of instructor.

**CHANGE: PREREQUISITE**

**PSYC 693 MULTIVARIATE ANALYSIS 4 S**

(OLD) Introduction to the central methods used in the analysis of multivariate data. Includes linear transformations, multivariate analysis of variance, multivariate multiple regression, discriminant analysis, canonical correlation, factor analysis, and an introduction to methods for clustering and classification. Applications across the behavior and social sciences are emphasized. Course consists of three hours of lecture and a required one-hour lab session where computing applications are taught. Students taking this course as PSYC 893 will have different course requirements. Prerequisites: A grade of B or better in PSYC 650 and PSYC 651 or equivalent is recommended, or consent of instructor.

**PSYC 693 MULTIVARIATE ANALYSIS 4 S**

(NEW) Introduction to the central methods used in the analysis of multivariate data. Includes linear transformations, multivariate analysis of variance, multivariate multiple regression, discriminant analysis, canonical correlation, factor analysis, and an introduction to methods for clustering and classification. Applications across the behavior and social sciences are emphasized. Course consists of three hours of lecture and a required one-hour lab session where computing applications are taught. Students taking this course as PSYC 893 will have different course requirements. Prerequisites: PSYC 650 or equivalent, or consent of instructor.

**CHANGE: PREREQUISITE**

**PSYC 694 MULTILEVEL MODELING 4 S**

(OLD) Introduction to statistical methods for modeling multilevel (hierarchically structured) data. Topics include a review of ordinary least squares regression analysis, random effects ANOVA, intraclass correlation, multilevel regression, testing and probing interactions, maximum likelihood estimation, model assumptions, model evaluation, and the analysis of longitudinal data. Emphasis will be on the theory underlying multilevel modeling techniques and hands-on application using software. Applications across the behavioral and social sciences are emphasized. Course consists of three hours of lecture and a required one-hour lab session where computing applications are taught. Students taking this course as PSYC 894 will have different course requirements. Prerequisite: A grade of B or better in PSYC 650 and PSYC 651 or equivalent is recommended, or consent of instructor.

**PSYC 694 MULTILEVEL MODELING 4 S**

(NEW) Introduction to statistical methods for modeling multilevel (hierarchically structured) data. Topics include a review of ordinary least squares regression analysis, random effects ANOVA, intraclass correlation, multilevel regression, testing and probing interactions, maximum likelihood estimation, model assumptions, model evaluation, and the analysis of longitudinal data. Emphasis is on the theory underlying multilevel modeling techniques and hands-on application using software. Applications across the behavioral and social sciences are emphasized. Course consists of three hours of lecture and a required one-hour lab session where computing applications are taught. Students taking this course as PSYC 894 will have different course requirements. Prerequisite: PSYC 650 or equivalent, or consent of instructor.

**CHANGE: PREREQUISITE**

**PSYC 695 CATEGORICAL DATA ANALYSIS 4 S**

(OLD) Introduction to multivariate analyses of count data, including error models, statistical inference, loglinear models, logit models, logistic regression, homogeneity, symmetry,
and selected other topics. Applications across the behavioral and social sciences are emphasized. Course consists of three hours of lecture and a required one-hour lab session where computing applications are taught. Students taking this course as PSYC 895 will have different course requirements. Prerequisites: A grade of B or better in PSYC 650 and PSYC 651 or equivalent is recommended, or consent of instructor.

PSYC 695 CATEGORICAL DATA ANALYSIS 4 S
(NEW) Introduction to multivariate analyses of count data, including error models, statistical inference, loglinear models, logit models, logistic regression, homogeneity, symmetry, and selected other topics. Applications across the behavioral and social sciences are emphasized. Course consists of three hours of lecture and a required one-hour lab session where computing applications are taught. Students taking this course as PSYC 895 will have different course requirements. Prerequisites: PSYC 650 or equivalent, or consent of instructor.

CHANGE: PREREQUISITE
PSYC 696 STRUCTURAL EQUATION MODELING 4 S
(OLD) Introduction to statistical methods for modeling latent variables. Topics include a review of latent variables, covariance structures analysis, mean structures analysis, confirmatory factor analysis (CFA), structural equation modeling (SEM), multiple group CFA, longitudinal CFA, longitudinal SEM, and hierarchical CFA. Applications across the behavioral and social sciences are emphasized. Course consists of three hours of lecture and a required one-hour lab session where computing applications are taught. Students taking this course as PSYC 896 will have different course requirements. Prerequisite: A grade of B or better in PSYC 650 and PSYC 651 or equivalent is recommended, or consent of instructor.

PSYC 696 STRUCTURAL EQUATION MODELING 4 S
(NEW) Introduction to statistical methods for modeling latent variables. Topics include a review of latent variables, covariance structures analysis, mean structures analysis, confirmatory factor analysis (CFA), structural equation modeling (SEM), multiple group CFA, longitudinal CFA, longitudinal SEM, and hierarchical CFA. Applications across the behavioral and social sciences are emphasized. Course consists of three hours of lecture and a required one-hour lab session where computing applications are taught. Students taking this course as PSYC 896 will have different course requirements. Prerequisite: PSYC 650 or equivalent, or consent of instructor.

SLAVIC LANGUAGES & LITERATURES

CHANGE: COURSE DESCRIPTION
PLSH 104 ELEMENTARY POLISH I 5 U
(OLD) First Semester. Five hours of recitation and drill in the spoken language per week. Essentials of grammar, practice in reading, writing, and speaking Polish.

PLSH 104 ELEMENTARY POLISH I 5 U
(NEW) First Semester. Essentials of grammar, practice in reading, writing, and speaking Polish.

B. Degree Requirements/Policy Changes for Approval: Change to BA in Human Biology

The following proposal for changes to the BA in Human Biology was approved at the September 2005 CAC meeting. It has recently been brought to our attention that the proposal included changes to general education requirements that should not have been allowed as a part of the proposal. Changes to the common general education requirements for BA or BGS degrees would be College wide changes and should not be requested in this way for one particular major. The inclusion of these changes was overlooked during the initial review of the proposal, and was subsequently overlooked during the various stages of approval of the proposal as a whole.
I have indicated the areas of the proposal that should not have been voted on as a part of the request, and ask that CUSA amend the approval of the proposal to exclude these changes. Upon approval of this amendment the same request will be forwarded to CAC to rectify this error.

PROPOSED:

New requirements for the BA in Human Biology with five concentrations. For students entering Spring 2005.

ANTHROPOLOGY CONCENTRATION
At least 124 hrs. (45 Junior/Senior hrs.) must be completed for graduation. Double majors must complete at least 15 hrs. unique to each major.

I. General College Requirements (min. 55 hrs.):

   English (9 hrs.): ENGL 101 ____; ENGL 102 (or 105) ____; ENGL 203 (or 205, 209, 210, 211, 362); ____

   Communication/Logic (3 hrs., one of following): COMS 130, COMS 230, PHIL 148, PHIL 310 OR Exemption/Exam ____

   Western Civilization (6 hrs.): HWC 204 (or 114) ____ and HWC 205 (or 115) ____

Principal Course Distribution Requirements: (see Timetable or Undergraduate Catalog and Timetable appendix for list)

   Humanities (9 hrs.): (HT) ________, (HL) ______________, (HR) ______________

   Social Science (9 hrs. including PSYC 104):

   (SC) ________, (SI) PSYC 104, (SF) ______________

   Non-Western Culture (3 hrs.): __________ (see Undergraduate Catalog and Timetable appendix for list)

Foreign Language (16-20 hrs. or proficiency): __________, __________, __________, __________

(Math and Natural Science requirements are usually met by fulfilling the Human Biology requirements.)

II. General Science Requirements (min. 33 hrs.):

   ______ ANT 304 Physical Anthropology (3-4 hrs.)
   ______ BIOL 150/151 Molecular & Cellular Biol. (4 hrs.)
   ______ BIOL 152/3 Principles of Organismal Biol. (4 hrs.)
   ______ MATH 115 + MATH 116 (6 hrs.) OR MATH 121 (5 hrs.) Calculus I
   ______ CHEM 184 Foundations of Chemistry I (5 hrs.)
   ______ CHEM 188 Foundations of Chemistry II (5hrs.)
   ______ PHSX 114 College Physics I OR PHSX 211 General Physics I (4 hrs.)
   ______* BIOL 570 Intro. Biostatistics (3 hrs.) OR PSYC 300 Statistics/Psychol. Res. (3 hrs.) OR MATH 365 Elem. Statistics (3 hrs.)

   *BIOL 570 is recommended for the Anthropology Concentration

III. Anthropology Concentration (min. 30 hrs.)

   ______ ORGANIC CHEMISTRY (3 hrs.): CHEM 622

   ______ Fundamentals of Organic Chemistry OR CHEM 624 Organic Chemistry I
   ______ CHEM 625 Organic Chemistry I Lab (2 hrs.)
CELL BIOLOGY (3 hrs.) BIOL 416 Cell Structure & Function
GENETICS (3 hrs.): BIOL 350 Principles of Genetics
SEMINAR (1 hr.): BIOL 599 Senior Seminar in Human Biology

Two of the following four categories
Human Anatomy & Physiology (12 hrs.)
--- BIOL 417 Biology of Development
--- Nine hours selected from the following courses:
  ANTH 542 Biology of Human Nutrition; ANTH 648 Human Osteology; ANTH 650 Human Reproductive: Biology and Behavior; BIOL 426 Laboratory in Cell Biology; BIOL 440 Advanced Human Anatomy (lect & lab); BIOL 600 Biochemistry (lab BIOL 637); BIOL 646 Mammalian Physiology (lab BIOL 647)

Human Population Biology (Nine hours selected from the following courses)
  ANTH 340 Human Variation; ANTH 442 Anthropological Genetics; ANTH 544 Physical Anthropology of American Indians; ANTH 545 Contemporary Health Issues in Africa; ANTH 652 Population Dynamics

Human Adaptation & Evolution (Nine hours selected from the following courses)
  ANTH 350 Human Adaptation; ANTH 352 Controversies on the Living and the Dead; ANTH 450 Disease and Adaptation; ANTH 503 Topics in Biological Anthropology; ANTH 549 Fossil Apes to Australopithecus; ANTH 550 Homo erectus to Homo sapiens

Human Biology & Behavior (Nine hours selected from the following courses)
  ANTH 359 Anthropology of Sex; ANTH 447 Introduction to Behavioral Genetics; ANTH 461 Medical Anthropology; ANTH 752 Biological Basis of Human Behavior; PSYC 370 Brain and Behavior; PSYC 536 Psychology of Language

Applied Behavioral Science Concentration
At least 124 hrs. (45 Junior/Senior hrs.) must be completed for graduation. Double majors must complete at least 15 hrs. unique to each major.

I. General College Requirements (min. 55 hrs.):

   English (9 hrs.): ENGL 101 ____; ENGL 102 (or 105) ____; ENGL 203 (or 205, 209, 210, 211, 362); ___

   Communication/Logic (3 hrs., one of following): COMS 130, COMS 230, PHIL 148, PHIL 310
   OR Exemption/Exam ___

   Western Civilization (6 hrs.): HWC 204 (or 114) ____ and HWC 205 (or 115) ___

   Principal Course Distribution Requirements: (see Timetable or Undergraduate Catalog and Timetable appendix for list)
   Humanities (9 hrs.):
   (HT) __________, (HL) __________, (HR) __________

   Social Science (9 hrs. incl. ABSC 100 and ABSC 150):
   (SC________, (SI) PSYC 104, (SF) _______

   Non-Western Culture (3 hrs.): ________ (see Undergraduate Catalog and Timetable appendix for list)

   Foreign Language (16-20 hrs. or proficiency): ________, ________, ________, ________
   (Math and Natural Science requirements are usually met by fulfilling the Human Biology requirements.)
II. General Science Requirements (min. 33 hrs.):

- ANTH 304 Physical Anthropology (3-4 hrs.)
- BIOL 150/151 Molecular & Cellular Biol. (4 hrs.)
- BIOL 152/3 Principles of Organismal Biol. (4 hrs.)
- MATH 115 + MATH 116 (6 hrs.) OR MATH 121 (5 hrs.) Calculus I
- CHEM 184 Foundations of Chemistry I (5 hrs.)
- CHEM 188 Foundations of Chemistry II (5 hrs.)
- PHSX 114 College Physics I OR PHSX 211 General Physics I (4 hrs.)
- BIOL 570 Intro. to Biostatistics (3 hrs.) OR PSYC 300 Statistics/Psychol. Res. (3 hrs.) OR
  MATH 365 Elem. Statistics (3 hrs.)

III. Applied Behavioral Science Concentration (min. 32 hrs.)

- GENETICS (3 hrs.): BIOL 350, Principles of Genetics
- BEHAVIORAL SCIENCE (3 hrs.): ABSC 100 Introduction to Applied Behavioral Science
- DEVELOPMENT (3 hrs.): ABSC 160 Introduction to Child Behavior and Development
  OR PSYC 333 Child Psychology
- RESEARCH METHODS (4 hrs): ABSC 308 Research Methods and Application
- SEMINAR (1 hr): BIOL 599 Senior Seminar in Human Biology

Two of the following four categories

Applied Behavioral Science (9 hrs.)

- Six hours selected from the following courses: ABSC 150 Community Leadership and
  ABSC 310/311 Building Healthy Communities (preq. ABSC 150); ABSC 350 The
  Behavioral Treatment of Children with Autism; ABSC 410 Behavioral Approaches in
  Working with Adolescents; ABSC 437 Independent Living and People with Disabilities

Development: Typical and Atypical (9 hrs.)

- Six hours selected from the following courses: ABSC 150 Community Leadership and
  ABSC 310/311 Building Healthy Communities (preq. ABSC 150); ABSC 350 The
  Behavioral Treatment of Children with Autism; ABSC 410 Behavioral Approaches in
  Working with Adolescents; ABSC 437 Independent Living and People with Disabilities

Biology of Behavior (9 hrs.)

- Six hours selected from the following courses: ANTH 341 Human Evolution; ANTH
  418 The Rise of Civilization; ANTH 450 Human Reproductive Biology and Behavior;
  ANTH 650 Human Reproductive Biology and Behavior; ANTH 661 Cultural Dynamics;
  BIOL/ GEOG 410 Human Biogeography; BIOL 550 Introduction to Systematics;
  BIOL 625 Behavioral Ecology and Sociobiology; BIOL 652 Comparative Animal Behavior

All students are encouraged to take BIOL 412 Evolutionary Biology. Although space is limited, an
ABSC research practicum course is strongly recommended (e.g., ABSC 499, ABSC 679, ABSC
698). ABSC courses are suggested for fulfilling the requirements of the ABS concentration, but
students are encouraged to explore the offerings of other departments in the Human biology
Program.

BIOLOGY CONCENTRATION
At least 124 hrs. (45 Junior/Senior hrs.) must be completed for graduation. Double majors must complete at least 15 hrs. unique to each major.

I. General College Requirements (min. 55 hrs.):

   **English** (9 hrs.): ENGL 101 ____; ENGL 102 (or 105) ____; ENGL 203 (or 205, 209, 210, 211, 362); ___

   Communication/Logic (3 hrs., one of following): COMS 130, COMS 230, PHIL 148, PHIL 310
   OR Exemption/Exam ___

   **Western Civilization** (6 hrs.): HWC 204 (or 114) ____ and HWC 205 (or 115) ___

   **Principal Course Distribution Requirements:** (see Timetable or Undergraduate Catalog and
   Timetable appendix for list)
   - **Humanities** (9 hrs.):
     (HT) ________; (HL) ________; (HR) ________
   - **Social Science** (9 hrs. including PSYC 104):
     (SC) ________; (SI) **PSYC 104**; (SF) ________

   **Non-Western Culture** (3 hrs.): ________ (see Undergraduate Catalog and Timetable appendix
   for list)

   **Foreign Language** (16-20 hrs. or proficiency): ________, ________, ________, ________
   (Math and Natural Science requirements are usually met by fulfilling the Human Biology
   requirements.)

II. General Science Requirements (min. 33 hrs.)
   ___ ANTH 304 Physical Anthropology (3-4 hrs.)
   ___ BIOL 150/151 Molecular & Cellular Biol. (4 hrs.)
   ___ BIOL 152/3 Principles of Organismal Biol. (4 hrs.)
   ___ MATH 115 + MATH 116 (6 hrs.) OR MATH 121 (5 hrs.) Calculus I
   ___ CHEM 184 Foundations of Chemistry I (5 hrs.)
   ___ CHEM 188 Foundations of Chemistry II (5 hrs.)
   ___ PHSX 114 College Physics I OR PHSX 211 General Physics I (4 hrs.)
   ___ *BIOL 570 Intro. Biostatistics (3 hrs) OR PSYC 300 Statistics/Psychol. Res. (3 hrs.) OR
   MATH 365 Elem. Statistics (3 hrs.)

   *BIOL 570 is recommended for the Biology Concentration

III. Biology Concentration (min. 31 hrs.)
   ___ ORGANIC CHEMISTRY (3 hrs.): CHEM 622
   Fund./Organic Chemistry OR CHEM 624 Organic Chemistry I
   ___ CHEM 625 Organic Chemistry I Lab (2 hrs.)
   ___ PHYSICS (4 hrs.): PHSX 115 College Physics II OR PHSX 212 General Physics II
   ___ GENETICS (3 hrs.): BIOL 350, Principles of Genetics
   ___ SEMINAR (1 hr.): BIOL 599 Senior Seminar in Human Biology

   **Two of the following four categories (Course selections must include at least 3 hours of
   laboratory credit)**
   - **Development and Genetics** (9 hrs.)
     ___ BIOL 417 Biology of Development
     _____ Six hours selected from the following courses: ABSC/PSYC 535 Developmental
     Psychopathology; ANTH 762 Human Growth & Development; BIOL 405, Laboratory in Genetics;
     BIOL 416 Cell Biology; BIOL 595 Human Genetics; BIOL 688 Molecular Biology of Cancer;
PSYC 333 Child Development; PSYC 430 Cognitive; PSYC 531 Language Development; SPLH 566 Language Development

**Anatomy and Physiology (10 hrs.)**
- **BIOL 646 Mammalian Physiology**
- **Six hours selected from the following courses:**
  - ANTH 542 Biology of Human Nutrition
  - ANTH 648 Human Osteology
  - BIOL 435 Introduction to Neurobiology
  - BIOL 440 Advanced Human Anatomy (Lab and lecture)
  - BIOL 600 Biochemistry (Lab BIOL 637)
  - BIOL 647 Mammalian Physiology laboratory
  - HSES 672 Exercise Physiology
  - PSYC 370 Brain & Behavior
  - PSYC 380 Brain & Pathology
  - PSYC 475 Cognitive Neuroscience

**Evolution, Ecology, and Adaptation (9 hrs.)**
- **BIOL 412 Evolutionary Biology**
- **Six hours selected from the following courses:**
  - ANTH 340 Human Variation
  - ANTH 350 Human Adaptation
  - ANTH 652 Population Dynamics
  - BIOL 410 Human Biogeography
  - BIOL 414 Principles of Ecology
  - BIOL 668 Evolutionary Ecology
  - PSYC 555 Evolutionary Psychology

**Human Disease (9 hrs.)**
- **BIOL 400 Microbiology (Lab, BIOL 402)**
- **Six hours selected from the following courses:**
  - ANTH 450 Adaptation and Disease
  - BIOL 503 Immunology (Lab, BIOL 504)
  - BIOL 506 Pathogenic Microbiology (Lab, BIOL 507)
  - BIOL 512 Virology (Lab, BIOL 513)
  - BIOL 518 Microbial Genetics (Lab, BIOL 519)
  - BIOL 595 Human Genetics
  - BIOL 616 Medical Entomology
  - BIOL 688 Molecular Biology of Cancer

**PSYCHOLOGY CONCENTRATION**
At least 124 hrs. (45 Junior/Senior hrs.) must be completed for graduation. Double majors must complete at least 15 hrs. unique to each major.

I. **General College Requirements (min. 55 hrs.):**
   - **English (9 hrs.):** ENGL 101 ___; ENGL 102 (or 105) ___;
     - ENGL 203 (or 205, 209, 210, 211, 362); ___
   - **Communication/Logic (3 hrs., one of following):** COMS 130, COMS 230, PHIL 148, PHIL 310
     OR
   - Exemption/Exam. ___
   - **Western Civilization (6 hrs.):** HWC 204 (or 114) ___ and
     - HWC 205 (or 115) ___
   - **Principal Course Distribution Requirements:** (see Timetable or Undergraduate Catalog and Timetable appendix for list)
     - **Humanities (9 hrs.):**
       - (HT) ________ , (HL) ________, (HR) _______
     - **Social Science (9 hrs. including PSYC 104):**
       - (SC) ________, (SI) **PSYC 104**, (SF) _______
     - **Non-Western Culture (one course):** ________ (see Undergraduate Catalog and Timetable appendix for list)
   - **Foreign Language (16-20 hrs. or proficiency):** ________ , ________, ________, ________
     (Math and Natural Science requirements are usually met by fulfilling the Human Biology requirements.)

II. **General Science Requirements (min. 33 hrs.):**
- ____ ANTH 304, Physical Anthropology (3-4 hrs.)
- ____ BIOL 150/151 Molecular & Cellular Biol. (4 hrs.)
### BIOL 152/3 Principles of Organismal Biol. (4 hrs.)
- MATH 115 + MATH 116 (6 hrs.) OR MATH 121 (5 hrs.) Calculus I
- CHEM 184 Foundations of Chemistry I (5 hrs.)
- CHEM 188 Foundations of Chemistry II (5 hrs.)
- PHSX 114 College Physics I OR PHSX 211 General Physics I (4 hrs.)

*PSYC 300 Statistics/Psychol. Res. (3 hrs.) OR BIOL 570 Intro. Biostatistics (3 hrs.) OR MATH 365 Elem. Statistics (3 hrs.)*

*PSYC 300 is recommended for the Psychology Concentration*

### III. Psychology Concentration (min. 30 hrs.)
- ORGANIC CHEMISTRY (3 hrs.): CHEM 622 Fund. Organic Chemistry OR CHEM 624 Organic Chemistry I
- CHEM 625 Organic Chemistry I Lab (2 hrs.)
- GENETICS (3 hrs.): BIOL 350 (3 hrs.) Principles of Genetics
- RESEARCH METHODS (3 hrs.): PSYC 310 Research Methods in Psychology
- SEMINAR (1 hr.) BIOL 599 Senior Seminar in Human Biology

**Two of the following four categories**

#### Evolution, Adaptation & Health (nine hrs. selected from the following courses)
- PSYC 555 Evolutionary Psychology; PSYC 605 Health Psychology; ANTH 340 Human Variation; ANTH 341 Human Evolution; ANTH 350 Human Adaptation; ANTH 442 Anthropological Genetics; ANTH 447 Introduction to Behavioral Genetics; ANTH 450 Disease & Adaptation; ANTH 542 Biology of Human Nutrition; BIOL 412 Evolutionary Biology; BIOL 595 Human Genetics

**Human Development (9 hrs.)**
- PSYC 333 Child Development
  - Six hours selected from the following courses: PSYC 430 Cognitive Development; PSYC 510 Infant Behavior & Development; PSYC/ABSC 632 Advanced Child Behavior and Development; BIOL 417 Biology of Development

**Human Cognition & Language (9 hrs.)**
- PSYC 318 Cognitive Psychology
  - Six hours selected from the following courses: PSYC 418 Introduction to Cognitive Science; PSYC 482 Sensation & Perception; PSYC 518 Human Memory; PSYC 531 Language Development; PSYC 536 Psychology of Language; SPLH 466 Language Science; SPLH 566 Language Development

**Neuroscience (nine hrs. selected from the following courses)**
- PSYC 370 Brain & Behavior; PSYC 380 Brain & Pathology; PSYC 475 Cognitive Neuroscience; ANTH 650 Biological Bases of Human Behavior; BIOL 435 Introduction to Neurobiology; BIOL 454 Brain Diseases & Neurological Disorders; SPLH 320 Neuroscience of Human Communication

*For the Psychology Concentration, Psychology courses are recommended in fulfilling at least some of the requirements in the four categories, but students are also strongly encouraged to explore other departments participating in the Human Biology Program*
SPEECH-LANGUAGE-HEARING SCIENCE CONCENTRATION

At least 124 hrs. (45 Junior/Senior hrs.) must be completed for graduation. Double majors must complete at least 15 hrs unique to each major.

I. General College Requirements (min. 55 hrs.):

   English (9 hrs.): ENGL 101 _____; ENGL 102 (or 105) ____; ENGL 203 (or 205, 209, 210, 211, 362); ___

   Communication/Logic (3 hrs., one of following): COMS 130, COMS 230, PHIL 148, PHIL 310
   OR Exemption/Exam ___

   Western Civilization (6 hrs.): HWC 204 (or 114) ___ and HWC 205 (or 115) ___

   Principal Course Distribution Requirements: (see Timetable or Undergraduate Catalog and Timetable appendix for list)

   Humanities (9 hrs.):
   (HT) __________, (HL) __________, (HR) __________

   Social Science (9 hrs. including PSYC 104):
   (SC) __________, (SI) PSYC 104, (SF) __________

   Non-Western Culture (3 hrs.): __________ (see Undergraduate Catalog and Timetable appendix for list)

   Foreign Language (16-20 hrs. or proficiency): __________, __________, __________, __________
   (Math and Natural Science requirements are usually met by fulfilling the Human Biology requirements.)

II. General Science Requirements (min. 33 hrs.)

   _____ ANTH 304 Physical Anthropology (3-4 hrs.)
   _____ BIOL 150/151 Molecular & Cellular Biol. (4 hrs.)
   _____ BIOL 152/3 Principles of Organismal Biol. (4 hrs.)
   _____ MATH 115 + MATH 116 (6 hrs) OR MATH 121 (5 hrs.) Calculus I
   _____ CHEM 184 Foundations of Chemistry I (5 hrs.)
   _____ CHEM 188 Foundations of Chemistry II (5 hrs.)
   _____ PHSX 114 College Physics I OR PHSX 211 General Physics I (4 hrs.)
   _____ *BIOI 570 Intro. Biostatistics (3 hrs.) OR PSYC 300 Statistics/Psychol. Res. (3 hrs.) OR
   MATH 365 Elem. Statistics (3 hrs.)

III. Speech-Language-Hearing Concentration (min. 29 hrs.)

   _____ PHYSICS (4 hrs.): SPLH 120 Physics of Speech OR PHSX 115 College Physics II
   _____ RESEARCH METHODS (3 hrs.): SPLH 660 Research Methods in Human Communication
   _____ GENETICS (3 hrs.): BIOL 350, Principles of Genetics
   _____ SEMINAR (1 hr.): BIOL 599 Senior Seminar in Human Biology

   Two of the following four categories

   Development and Genetics (9 hrs.)
   _____ BIOL 417 Biology of Development
   _____ Six hours selected from the following courses: ANTH 762 Human Growth & Development; BIOL 405 Laboratory in Genetics; BIOL 416 Cell Biology; BIOL 595 Human Genetics; PSYC 333 Child Development; PSYC 430 Cognitive; SPLH 464 Infant Development; SPLH 764 Infant Development; SPLH 466 Language Science; SPLH 566 Language Development

   Anatomy and Physiology (10 hrs.)
BIOL 646 Mammalian Physiology

**Six hours selected from the following courses:** BIOL 440 Advanced Human Anatomy (Lect & Lab); BIOL 647 Mammalian Physiology laboratory; SPLH 662 Speech Science; SPLH 663 Hearing Science; HSES 672 Exercise Physiology

**Neuroscience (9 hrs.)**

- BIOL 408 Physiology of Organisms

**Six hours selected from the following courses:** BIOL 435 Introduction to Neurobiology; PSYC 370 Brain & Behavior; PSYC 380 Brain & Pathology; PSYC 475 Cognitive Neuroscience; SPLH 320 Neuroscience of Human Communication; SPLH 464 Neural Bases of Speech & Voice; SPLH 464 Speech Motor Control

**Research Practicum (nine hours selected from the following courses)**

- SPLH 464 Circuit Theory & Bioinstrumentation; SPLH 449 Laboratory/Field Work in Human Biology (TOPICS: Orofacial Neurophysiology, Deep Brain Stimulation in Progressive Neuromotor Disease, Perceptual Neuroscience and Functional Brain Imaging; Neuroscience of the Premature Human Infant; Brain-Behavior Mapping of Language); SPLH 499 Directed Study in SPLH

*SPLH courses are recommended for the Speech-Language-Hearing Science Concentration for fulfilling the requirements in each area. Research practicum courses must be arranged with the course instructor prior to enrollment.*

**JUSTIFICATION:**

As part of an ongoing review of the Human Biology Program, the members of the Human Biology Committee unanimously recommend that the BA major in Human Biology be revised. In recent years, with the advent of such new information as the human genome and the acknowledged influence that humans have on the environment, the field of Human Biology has changed and expanded. The Human Biology Program members recognized that our current degree program was short-changing the majors by trying to cover the broad expanse of human biology topics, but failing to provide the depth of knowledge necessary for students to succeed. Because it is not possible for a single human biology curriculum to cover the depth of knowledge appropriate for all components of human biology, we have constructed a set of five alternative “concentrations” that students can pursue. Each has the same basic background of courses that provide a breadth of knowledge in human biology, and each has a unique set of options for gaining depth in one focused discipline. The resulting concentrations represent a forward planning movement by the Human Biology program to provide our students with a set of options that will prepare them for careers beyond KU.

**C. Other Business:**

1. **Proposal to limit the number of non-CLA&S elective hours allowed to count towards a CLA&S degree.**

   Following discussion of a proposed 18 hour limit of non-liberal arts and sciences course work, it was agreed that it was better to define the required number of liberal arts and sciences hours required for the degree than to place a limit on non-liberal arts and sciences coursework.

   Motion approved: A minimum of 106 hours in liberal arts and sciences is required for an undergraduate degree in the College of Liberal Arts & Sciences.

**PROPOSAL TO LIMIT THE NUMBER OF NON-COLLEGE OF LIBERAL ARTS AND SCIENCES COURSES ALLOWED TO COUNT TOWARDS A LIBERAL ARTS AND SCIENCES DEGREE.**

The minimum number of hours required to obtain an undergraduate degree at the University of Kansas is 124. With the change to the BA general education requirements, both the BA and BGS degrees will now require approximately 63 hours of general education course work, and most majors will require
approximately 30 hours, for a combined total of 93 hours. This allows for the completion of approximately 31 elective hours.

The question before the committee is whether we want to guide our students as to the best way to use those “elective” hours. When the recommendation to reduce the number of principal courses required for the BA was proposed, part of the rationale for this proposal had to do with opening up more choices for our students to be able to complete an additional major or minor, or to gain more depth within a chosen discipline in the College and still be able to graduate in four years.

There is also concern that, if the 31 hours have no restrictions, students could complete almost one fourth of their degree with non-liberal arts and sciences courses. It is the subcommittee’s opinion that there should be some sort of limit on these courses, similar to the historical limit of 25 hours previously in place.

The Curricular Changes/Degree Requirements subcommittee therefore proposes a limit of 18 hours of non-liberal arts and sciences course work to be used to complete any undergraduate College of Liberal Arts and Sciences degree. This would allow students to complete a minor outside the College with most, if not all courses counting toward their degree in the College, but would communicate the clear expectation that in order to obtain a degree from the College of Liberal Arts and Sciences, students should complete the majority of their courses within the College.

PROPOSAL AMENDED TO REQUIRE A MINIMUM NUMBER OF CLA&S HOURS RATHER THAN LIMIT NON-CLA&S HOURS. SEE AMENDED PROPOSAL APPROVED BY CUSA BELOW:

The Curricular Changes/Degree Requirements subcommittee therefore proposes a **minimum of 106 hours of liberal arts and sciences course work** to be used to complete any undergraduate College of Liberal Arts and Sciences degree. This would allow students to complete a minor outside the College with most, if not all courses counting toward their degree in the College, but would communicate the clear expectation that in order to obtain a degree from the College of Liberal Arts and Sciences, students should complete the majority of their courses within the College.

2. Proposal for implementation dates for the following changes in General Education requirements

Motions approved:

- Students with initial term of Fall 2008
  - [Require a CLAS approved minor, co-major, or second major by the B.G.S. degree. Eliminate the option of a Junior/Senior Concentration requirement]

- Current students in Fall 2008
  - [Reduction of the number of principal courses required for a B.A. degree from three courses to two courses in each major area of study (i.e., Humanities, Natural Sciences, Social Sciences)]

- Students with initial term of Fall 2008
  - [Change in Second Math and NM (Math 111, 115, 121, 141, 365 – REMOVE AS NM PRINCIPAL COURSES); (Math 116, 122, 142, 526 – ADD AS NM PRINCIPAL COURSES)]

- Fall 2008
  - [Plus/Minus Grading]

- Students with initial term of Fall 2008
  - [A minimum of 106 hours in liberal arts and sciences is required for an undergraduate degree in the College of Liberal Arts & Sciences.]
III. REPORT OF THE COMMITTEE ON GRADUATE STUDIES (CGS)

A. Curricular Changes for Approval

ECOLOGY & EVOLUTIONARY BIOLOGY

<table>
<thead>
<tr>
<th>Course</th>
<th>Change Type</th>
<th>Description</th>
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<tbody>
<tr>
<td>BIOL 848</td>
<td>NEW COURSE</td>
<td>Phylogenetic Methods (4) A survey of methods for inferring phylogenetic trees from character data and using phylogenies to address evolutionary questions. Lectures will present the relevant theory and algorithmic description of methods. Computer lab will familiarize students with software that implements the analyses discussed in lecture. Intended for graduate students specializing in systematics. Prerequisite: both BIOL 847 and BIOL 841 or consent of instructor. LEC.</td>
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ENGLISH

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<tr>
<th>Course</th>
<th>Change Type</th>
<th>Description</th>
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<tbody>
<tr>
<td>ENGL 730</td>
<td>NEW COURSE</td>
<td>Topics in Early Modern Literature: (3) Intensive study of texts written between 1485 and 1800. The course may be organized around a particular genre (poetry, prose, drama), historical period (e.g. Elizabethan literature), a major author (e.g. Milton), group of authors (e.g. women writers), or theme (e.g. literature and politics 1660-1800). Students will be expected to read and apply relevant criticism and theory as well as study primary texts. May be repeated for credit as topic varies. LEC.</td>
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<tr>
<td>ENGL 885</td>
<td>NEW COURSE CROSS-LISTING</td>
<td>Writing Center Theory and Administration (3). This course explores theories motivating writing center administration and practice. Students will investigate the multiple functions of writing centers, from writing labs associated with college composition instruction, to decentralized resources for writing faculty teaching writing across the disciplines, to elementary, secondary, and community support centers for writers, to online administrative perspective, design a research study and propose actions such as creating policy, developing curricula, designing materials, or conducting assessments. (Same as LA&amp;S 700.) Prerequisite: LA&amp;S 400, ENGL 400, or consent of instructor. LEC</td>
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GEOLOGY

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<th>Course</th>
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<th>Description</th>
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<tbody>
<tr>
<td>GEOL 751</td>
<td>OLD COURSE</td>
<td>Physical Hydrogeology (3). Study of fluid flow in subsurface hydrologic systems. Investigation of the groundwater environment including porosity, [sic] and hydraulic conductivity and their relationship to typical geologic materials. Examination of Darcy’s law [sic] and the continuity equation leading to the general flow equations. Discussion of typical hydraulic testing methods to estimate aquifer parameters in various situations and the use of these parameters to model future effects. Study of the basic mechanisms that determine the behavior of typical regional flow systems. (Same as CE 754.) Prerequisite: Differential Equations and Introductory Hydrogeology or Fluid Mechanics, or consent of instructor. LEC</td>
</tr>
</tbody>
</table>
| GEOL 751 | NEW COURSE  | Physical and Transport Hydrogeology (4). A study of fluid flow in the subsurface including transport of constituents with the fluid. Physical transport will consider (1) the origin of basic parameters such as porosity and hydraulic conductivity, and their relationship to typical geologic materials, (2) basic equations of flow, such as Darcy’s Law and the conversation equation, and (3) application of these concepts. Applications considered may include hydraulic testing, modeling and regional flow systems. Chemical transport will consider the processes of solute and contaminant mass movement in porous and fractured media by advection and diffusion. The effects of attenuating mechanisms such as partitioning, chemical and biological transformations will also be discussed. The
mathematical expression of these processes will be developed and applied using computer models. (Same as CE 754.) Prerequisite: Differential Equations and Introductory Hydrogeology or Fluid Mechanics or consent of instructor. LEC

LIBERAL ARTS & SCIENCES

CHANGE: NEW CROSS-LISTING

LA&S 700

Writing Center Theory and Administration (3). This course explores theories motivating writing center administration and practice. Students will investigate the multiple functions of writing centers, from writing labs associated with college composition instruction, to decentralized resources for writing faculty teaching writing across the disciplines, to elementary, secondary, and community support centers for writers, to online consultation services. Students will choose a special interest or problem, and, from an administrative perspective, design a research study and propose actions such as creating policy, developing curricula, designing materials, or conducting assessments. (Same as ENGL 885.) Prerequisite: LA&S 400, ENGL 400, or consent of instructor. LEC

PHILOSOPHY

CHANGE: PREREQUISITE

PHIL 835

Frege (3). Gottlob Frege was the founder of the analytic movement in philosophy, having done seminal work in logic, the philosophy of language, and the philosophy of mathematics. This course will focus on his primary texts as well as his influence on present-day studies. Prerequisite: PHIL 628 or PHIL 630 or PHIL 638. LEC

PHIL 835

Frege (3). Gottlob Frege was the founder of the analytic movement in philosophy, having done seminal work in logic, the philosophy of language, and the philosophy of mathematics. This course will focus on his primary texts as well as his influence on present-day studies. Prerequisite: PHIL 628 or PHIL 630 or PHIL 638 or permission of instructor. LEC

CHANGE: PREREQUISITE

PHIL 852

Quine (3). A systematic study of the major work of W. V. Quine and its influence on subsequent analytic philosophy. Topics will include Quine’s theory of meaning, philosophical logic, and philosophy of science. Prerequisite: PHIL 620 or PHIL 628 or PHIL 638. LEC

PHIL 852:

Quine (3). A systematic study of the major work of W. V. Quine and its influence on subsequent analytic philosophy. Topics will include Quine’s theory of meaning, philosophical logic, and philosophy of science. Prerequisite: PHIL 638 or PHIL 648 or PHIL 650 or PHIL 654 or permission of instructor. LEC

CHANGE: PREREQUISITE

PHIL 855

Davidson (3). An examination of Donald Davidson’s seminal work in philosophy of language and philosophy of mind. Among the topics to be considered will be meaning, truth, interpretation, action, and propositional attitudes. Prerequisite: PHIL 638 or PHIL 654 or PHIL 666. LEC

PHIL 855

Davidson (3). An examination of Donald Davidson’s seminal work in philosophy of language and philosophy of mind. Among the topics to be considered will be meaning, truth, interpretation, action, and propositional attitudes. Prerequisite: PHIL 638 or PHIL 654 or permission of instructor. LEC

CHANGE: PREREQUISITE

PHIL 860

Topics in Philosophy of Science:_____ (3). This course may be offered under different subtitles, and may be taken more than once if the subject matter varies sufficiently. Topic and instructor and specific prerequisite to be announced in the
Schedule of Classes. Prerequisite: PHIL 620 or PHIL 622 or PHIL 648 or PHIL 650.

LEC

PHIL 860
Topics in Philosophy of Science: _______(3). This course may be offered under different subtitles, and may be taken more than once if the subject matter varies sufficiently. Topic and instructor and specific prerequisite to be announced in the Schedule of Classes. Prerequisite: PHIL 620 or PHIL 622 or PHIL 648 or PHIL 650 or permission of instructor. LEC

CHANGE: PREREQUISITE

PHIL 862
Topics in Logic: _______(3). This course may be offered under different subtitles, and may be taken more than once if the subject matter varies sufficiently. Topic and instructor and specific prerequisite to be announced in the Schedule of Classes. Prerequisite: PHIL 610 or PHIL 628 or PHIL 630. LEC

PHIL 862
Topics in Logic: _______(3). This course may be offered under different subtitles, and may be taken more than once if the subject matter varies sufficiently. Topic and instructor and specific prerequisite to be announced in the Schedule of Classes. Prerequisite: PHIL 610 or PHIL 628 or PHIL 630 or permission of instructor. LEC

CHANGE: PREREQUISITE

PHIL 868
Topics in Philosophy of Language: _______(3). This course may be offered under different subtitles and may be taken more than once if the subject matter varies sufficiently. Prerequisite: PHIL 628 or PHIL 638 or PHIL 654. LEC

PHIL 868
Topics in Philosophy of Language: _______(3). This course may be offered under different subtitles and may be taken more than once if the subject matter varies sufficiently. Prerequisite: PHIL 638 or permission of instructor. LEC

CHANGE: PREREQUISITE

PHIL 870
Topics in Philosophy in Metaphysics: _______(3). This course may be offered under different subtitles and may be taken more than once if the subject matter varies sufficiently. Topic and instructor and specific prerequisite to be announced in the Schedule of Classes. Prerequisite: PHIL 620 or PHIL 630 or PHIL 648 or PHIL 650 or PHIL 654. LEC

PHIL 870
Topics in Philosophy in Metaphysics: _______(3). This course may be offered under different subtitles and may be taken more than once if the subject matter varies sufficiently. Topic and instructor and specific prerequisite to be announced in the Schedule of Classes. Prerequisite: PHIL 650 or permission of instructor. LEC

CHANGE: PREREQUISITE

PHIL 872
Topics in Philosophy of Knowledge: _______(3). This course may be offered under different subtitles and may be taken more than once if the subject matter varies sufficiently. Topic and instructor and specific prerequisite to be announced in the Schedule of Classes. Prerequisite: PHIL 620 or PHIL 648 or PHIL 650 or PHIL 654. LEC

PHIL 872
Topics in Philosophy of Knowledge: _______(3). This course may be offered under different subtitles and may be taken more than once if the subject matter varies sufficiently. Topic and instructor and specific prerequisite to be announced in the Schedule of Classes. Prerequisite: PHIL 648 or permission of instructor. LEC

CHANGE: PREREQUISITE

PHIL 877
Topics in Philosophy of Mind: _______(3). This course may be offered under different subtitles and may be taken more than once if the subject matter varies sufficiently. Topic and instructor and specific prerequisite to be announced in the Schedule of Classes. Prerequisite: PHIL 638 or PHIL 650 or PHIL 654. LEC

PHIL 877
Topics in Philosophy of Mind: _______(3). This course may be offered under
different subtitles and may be taken more than once if the subject matter varies sufficiently. Topic and instructor and specific prerequisite to be announced in the Schedule of Classes. Prerequisite: PHIL 654 or permission of instructor. LEC

**CHANGE: PREREQUISITE**

**PHIL 880**

Topics in Ethics: ________ (3). This course may be offered under different subtitles and may be taken more than once if the subject matter varies sufficiently. Topic and instructor and specific prerequisite to be announced in the Schedule of Classes. Prerequisite: PHIL 670 or PHIL 672. LEC

**PHIL 880**

Topics in Ethics: ________ (3). This course may be offered under different subtitles and may be taken more than once if the subject matter varies sufficiently. Topic and instructor and specific prerequisite to be announced in the Schedule of Classes. Prerequisite: PHIL 670 or PHIL 672 or permission of instructor. LEC

**CHANGE: PREREQUISITE**

**PHIL 884**

Topics in Social and Political Philosophy: ________ (3). This course may be offered under different subtitles, and may be taken more than once if the subject matter varies sufficiently. Topic and instructor and specific prerequisite to be announced in the Schedule of Classes. Prerequisite: PHIL 555 or PHIL 666 or PHIL 668 or PHIL 674. LEC

**PHIL 884**

Topics in Social and Political Philosophy: ________ (3). This course may be offered under different subtitles, and may be taken more than once if the subject matter varies sufficiently. Topic and instructor and specific prerequisite to be announced in the Schedule of Classes. Prerequisite: PHIL 555 or PHIL 666 or PHIL 668 or PHIL 674 or permission of instructor. LEC

**CHANGE: PREREQUISITE**

**PHIL 888**

Topics in Philosophy of Social Sciences: ________ (3). This course may be offered under different subtitles, such as philosophy of a particular social science (e.g., economics, psychology) or a particular issue in the social sciences (e.g., ideology, reductionism), and may be taken more than once if the subject matter varies sufficiently. Topic and instructor and specific prerequisite to be announced in the Schedule of Classes. Prerequisite: PHIL 620 or PHIL 622 or PHIL 648 or PHIL 666 or PHIL 696. LEC

**PHIL 888**

Topics in Philosophy of Social Sciences: ________ (3). This course may be offered under different subtitles, such as philosophy of a particular social science (e.g., economics, psychology) or a particular issue in the social sciences (e.g., ideology, reductionism), and may be taken more than once if the subject matter varies sufficiently. Topic and instructor and specific prerequisite to be announced in the Schedule of Classes. Prerequisite: PHIL 622 or permission of instructor. LEC

**PSYCHOLOGY**

**PSYC 737**

Psycholinguistics II (3). An in-depth examination of selected topics in psycholinguistics. Topics may include spoken language processing, written language processing, neurolinguistics, prosody, and syntactic processing. (Same as LING 737.)

**PSYC 737**

Topics in Psycholinguistics (3). An in-depth examination of selected topics in psycholinguistics. Topics may include spoken language processing, written language processing, neurolinguistics, prosody, and syntactic processing. (Same as LING 737.)

**CHANGE: OTHER**

**PSYC 886**

Item Response Theory (4). This course covers the basic concepts and methods of item response models. Focal topics include the theory of underlying IRT models and their general properties. Also covered are methods for checking model assumptions and interpreting IRT estimates. The course uses examples from the social and behavioral sciences to demonstrate how IRT methods can be used to inform and refine survey
development, to assess measurement equivalence, link survey scores, and build item banks for short forms or computer-adaptive testing (CAT). Prerequisite: PSYC 790 and 791 or equivalent, or consent of instructor. LEC

**PSYC 886 (NEW)**  
**Item Response Theory** (4). This course covers the basic concepts and methods of item response models. Focal topics include the theory of underlying IRT models and their general properties. Also covered are methods for checking model assumptions and interpreting IRT estimates. The course uses examples from the social and behavioral sciences to demonstrate how IRT methods can be used to inform and refine survey development, to assess measurement equivalence, link survey scores, and build item banks for short forms or computer-adaptive testing (CAT). Course consists of three hours of lecture and a required one-hour lab session where computing applications are taught. Prerequisite: PSYC 790 and 791 or equivalent, or consent of instructor. LEC

CHANGE: **PREREQUISITE**

**PSYC 887 (OLD)**  
**Factor Analysis** (4). This course covers the theory behind, and application of, exploratory factor analysis. Topics include a review of multiple linear regression and matrix algebra. In-depth coverage is devoted to diagrams, model specification, goodness of fit, model selection, parameter estimation, rotation methods, scale development, and sample size and power issues. Extensions to confirmatory settings are elaborated. Both the theory underlying factor analytic techniques and hands-on application using software are emphasized. Applications across the social and behavioral sciences are emphasized. Course consists of three hours of lecture and a required one-hour lab session where computing applications are taught. Prerequisite: PSYC 790 and 791 equivalent, or consent of instructor. LEC

**PSYC 887 (NEW)**  
**Factor Analysis** (4). This course covers the theory behind, and application of, exploratory factor analysis. Topics include a review of multiple linear regression and matrix algebra. In-depth coverage is devoted to diagrams, model specification, goodness of fit, model selection, parameter estimation, rotation methods, scale development, and sample size and power issues. Extensions to confirmatory settings are elaborated. Both the theory underlying factor analytic techniques and hands-on application using software are emphasized. Applications across the social and behavioral sciences are emphasized. Course consists of three hours of lecture and a required one-hour lab session where computing applications are taught. Prerequisite: PSYC 790 or equivalent, or consent of instructor. LEC

CHANGE: **COURSE NUMBER**

**PSYC 889 (OLD)**  
**Applied Nonparametric Statistical Methods** (4). This course covers nonparametric statistical methods for testing hypotheses when the assumptions of ordinary parametric statistics are not met. Topics include a review of parametric statistics, sampling distributions, the logic of hypothesis testing, and motivations for using nonparametric techniques. In-depth coverage will be given to distribution–free procedures, sign tests, contingency tables, media tests, chi-square and other goodness-of-fit tests, rank correlations, randomness tests, Monte Carlo methods, resampling methods, tests of independence, 1-sample, 2-sample, and k-sample methods, permutation tests, and function smoothing and splines. There will be an emphasis on the theory underlying nonparametric methods. Applications across the behavioral and social sciences are emphasized. Course consists of three hour of lecture and a required one-hour lab session where computing applications are taught. Prerequisite: PSYC 790 and 791 or equivalent, or consent of instructor. LEC

**PSYC 879 (NEW)**  
**Applied Nonparametric Statistical Methods** (4). This course covers nonparametric statistical methods for testing hypotheses when the assumptions of ordinary parametric statistics are not met. Topics include a review of parametric statistics, sampling distributions, the logic of hypothesis testing, and motivations for using nonparametric techniques. In-depth coverage will be given to distribution–free procedures, sign tests, contingency tables, media tests, chi-square and other goodness-of-fit tests, rank correlations, randomness tests, Monte Carlo methods, resampling methods, tests of
independence, 1-sample, 2-sample, and k-sample methods, permutation tests, and function smoothing and splines. There will be an emphasis on the theory underlying nonparametric methods. Applications across the behavioral and social sciences are emphasized. Course consists of three hours of lecture and a required one-hour lab session where computing applications are taught. Prerequisite: PSYC 790 and 791 or equivalent, or consent of instructor. LEC

PSYC 892 Test Theory (4). This course takes a unified approach (from classical and modern test theory) to the topic of measurement in the behavioral and social sciences. Content covered includes the construction and administration of psychological tests (examples include tests of intelligence, achievement, and personality); practice in test construction, administration, and validation; and how to assess the reliability and generalizability of an instrument. Applications across the social and behavior sciences are emphasized. Course consists of three hours of lecture and a required one-hour lab session where computing applications are taught. Prerequisite: PSYC 790 and 791 or equivalent, or consent of instructor. LEC

PSYC 893 Multivariate Analysis (4). Introduction to the central methods used in the analysis of multivariate data. Includes linear transformations, multivariate analysis of variance, multivariate multiple regression, discriminant analysis, canonical correlation, factor analysis, and an introduction to methods for clustering and classification. Applications across the behavior and social sciences are emphasized. Course consists of three hours of lecture and a required one-hour lab session where computing applications are taught. Prerequisite: PSYC 790 and PSYC 791 or equivalent, or consent of instructor. LEC

PSYC 895 Categorical Data Analysis (4). Multivariate analyses of count data. Error models, statistical inference, loglinear models, logit models, logistic regression. Homogeneity, symmetry, and selected other topics. Applications across the behavioral and social sciences are emphasized. Course consists of three hours of lecture and a required one-hour lab session where computing applications are taught. Prerequisite: PSYC 790 and 791 or equivalent, or consent of instructor. LEC
PSYC 896 (OLD)  **Structural Equation Modeling I** (4). Introduction to statistical methods for modeling latent variables. Topics include a review latent variables, covariance structures analysis, mean structures analysis, confirmatory factor analysis (CFA), structural equation modeling (SEM), multiple group CFA, longitudinal CFA, longitudinal SEM, Hierarchical CFA, and Multi-trait Multi-Method SEM. Applications across the behavioral and social sciences are emphasized. Course consists of three hours of lecture and a required one-hour lab session where computing applications are taught. Prerequisite: PSYC 790 and 791 or equivalent, or consent of instructor. LEC

PSYC 896 (NEW)  **Structural Equation Modeling I** (4). Introduction to statistical methods for modeling latent variables. Topics include a review latent variables, covariance structures analysis, mean structures analysis, confirmatory factor analysis (CFA), structural equation modeling (SEM), multiple group CFA, longitudinal CFA, longitudinal SEM, Hierarchical CFA, and Multi-trait Multi-Method SEM. Applications across the behavioral and social sciences are emphasized. Course consists of three hours of lecture and a required one-hour lab session where computing applications are taught. Prerequisite: PSYC 790 or equivalent, or consent of instructor. LEC

PUBLIC ADMINISTRATION

PUAD 835 (OLD)  **Public Finance** (3). This course examines the management of public investments and theories of taxation and non-tax revenues. Basic microeconomic theory is introduced. LEC

PUAD 835 (NEW)  **Financing Public Services** (3). This course examines the theories of taxation and non-tax revenues. Basic microeconomic theory is introduced. LEC

PUAD 837 (OLD)  **Budget and Policy Analysis** (3). Discusses the methods and political context of policy analysis and the role of budgets in policy making and implementation. Examines public budgeting processes and budgetary decision making. LEC

PUAD 837 (NEW)  **Resource Allocation and Control** (3). Examines the theory, processes, and administration of public budgeting. Emphasizes how political and economic factors shape budgetary processes and outcomes; how budget formats, systems, and management tools affect resource allocation and organization performance; and technical and analytical tools needed to successfully navigate budget processes. LEC

PUAD 855  **Financial Management for Public and Not-for-Profit Organizations** (3). Financial management focuses on the use of financial information for decision making and evaluation. This course will rely on fundamental accounting concepts as they relate to the basic financial statements of government and not-for-profit organizations. Time will also be spent on financial management practices (e.g. cash management, debt management, etc.) and financial condition analysis. Material presented in this course expands on the foundational material covered in PUAD 837. Prerequisites: PUAD 837 or permission from the instructor. LEC

THEATRE & FILM

TH&F 818  **Scenography V** (3). Individual problems in scenography. Advanced projects tailored to the needs of the individual student. Prerequisite: TH&F 619. LEC

B. New degrees for approval
1. PhD in Bioinformatics
   Ilya Vakser (BINF) reviewed the changes made based on recommendations of the Provost’s ad hoc committee. The proposal has now been approved by the Provost’s Office.

   **CGS approved the proposed PhD in Bioinformatics pending the following:**
   - Clarification of conformity to CLAS regulations regarding 18 hours credit and relation to dissertation defense
   - Grammatical changes:
     1. p. 4, under “Why the program…”: line 2 (add a dash after ‘program’) 
     2. p. 4, under “Similar Programs…”: line 4 (change to read, “…none of them is based…”) and line 9 (change to read “none of these programs…offers a unique…”)
   - Page 9, line 15: Change to read “…rating of **at least** ‘Satisfactory’…”
   - Page 10, line 2-3: Add a consequence if the student fails to defend thesis twice.

2. Masters in Atmospheric Science

   **Approved** pending the following recommendations and clarifications:
   - Will thesis hours continue to fall under GEO 899 or will a new course be created for this purpose?
   - Elective course listed under “core courses” need to be moved to section “elective courses”
   - Re-word descriptions in the sections discussing Oklahoma and Colorado State.
   - Clarify if the 6 graduate credits outside of the Geography Department need to be a level 700 and above or level 500 and above.