CLAS C&C
Chair: Pamela Bedore
Minutes—FINAL
9.6.2020, e-approved 9.9.2020

A. Introductions & Orientation

The committee welcomed several new members and did a round of introductions.

Bedore briefly reviewed the CLAS C&C website and reminded members that the online CAR (Course Action Request) system moved over the summer; please delete old bookmarks and access the system from the CLAS C&C or Senate website for the correct version.

Two important tabs on the website:

Home Page has a list of **Course Approvals Needed**:

3000, 4000, and Grad Courses	1000, 2000, S/U-Graded	Gen Eds (CA, W, Q, SL, E)
Department	Department	Department
College	College	College
	Senate C&C	GEOC subcommittee(s)
	Senate	GEOC
		Senate C&C
		Senate

and **Important Dates:**

10.26.2020	Registration opens for Spring 2020
2.5.2021	Effective Date for changes to 2020/21 catalog (applied May 2021)
3.22.2021	Registration opens for Fall 2021

Add Course requests are added to the catalog within two weeks of final approval. Revise requests (Course/Major/Minor) must have final approval by 2.5.2021 in order to be applied for AY 21-22.

Submit Proposals page has links to the online CAR system (for most course requests) as well as to other links for grad program requests (gPAR), major/minor revisions and additions as well as special topics, factotum courses, and research & experiential courses.

Please don't hesitate to contact Bedore with any questions about proposals or timing Proposals for the 9.22 CLAS C&C meeting will be accepted until Weds, 9/16.

B. Chair Approvals

2020-224	ANTH 5395	Add Special Topic: Race, Gender, and Science
2020-225	COMM 4995	Add Special Topic: Science Communication
2020-226	LING 6798	Add Special Topic: Syntax and Cognitive Science

2020-227 MCB 3895 Add Special Topic: Human Disease and the Development of Therapeutic Agents
2020-228 MCB 5895 Add Special Topic: Horizontal Gene Transfer

C. Approved Proposals

2020-229 AFRA/SOCI 2250 Add Course (guest: Fumilayo Showers) (G) (S)
2020-230 HIST 2205W Revise Course (guest: Frank Costigliola) (G) (S)
2020-231 BIST Revise BIST M.A. (guest: Ming Chen)
2020-232 BIST/STAT 5095 Revise Course (guest: Ming Chen)
2020-233 BIST/STAT 5125 Revise Course (guest: Ming Chen)
2020-234 BIST/STAT 5215 Revise Course (guest: Ming Chen)
2020-235 BIST/STAT 5225 Revise Course (guest: Ming Chen)
2020-236 BIST/STAT 5361 Revise Course (guest: Ming Chen)
2020-237 BIST/STAT 5505 Revise Course (guest: Ming Chen)
2020-238 BIST/STAT 5525 Revise Course (guest: Ming Chen)
2020-239 BIST/STAT 5535 Revise Course (guest: Ming Chen)
2020-240 BIST/STAT 5605 Revise Course (guest: Ming Chen)
2020-241 BIST/STAT 5615 Revise Course (guest: Ming Chen)
2020-242 BIST/STAT 5625 Revise Course (guest: Ming Chen)
2020-243 BIST/STAT 5635 Revise Course (guest: Ming Chen)
2020-244 BIST/STAT 5645 Revise Course (guest: Ming Chen)
2020-245 BIST/STAT 5655 Revise Course (guest: Ming Chen)
2020-246 BIST/STAT 5665 Revise Course (guest: Ming Chen)
2020-247 BIST/STAT 5675 Revise Course (guest: Ming Chen)
2020-248 BIST/STAT 5685 Revise Course (guest: Ming Chen)
2020-249 BIST/STAT 5705 Revise Course (guest: Ming Chen)
2020-250 BIST/STAT 5725 Revise Course (guest: Ming Chen)
2020-251 BIST/STAT 5735 Revise Course (guest: Ming Chen)
2020-252 BIST/STAT 5815 Revise Course (guest: Ming Chen)
2020-253 BIST/STAT 5825 Revise Course (guest: Ming Chen)
2020-254 BIST/STAT 5915 Revise Course (guest: Ming Chen)
2020-255 BIST/STAT 6494 Revise Course (guest: Ming Chen)
2020-256 AMST 2293 Add Course (S)
2020-257 ENGL 2640/W Revise Course (G) (S)
2020-258 HIST/MAST 3544 Revise Course
2020-211 GEOG/GSCI 2310E Revise Course (guest: Julie Fosdick) (G) (S)

D. Discussion

1. New Add Special Topics Form
2. Xx93 courses: International Study vs. Foreign Study
3. Committee goals for 2020/21

CATALOG COPY:

2020-229   AFRA/SOCI 2250   Add Course (guest: Fumilayo Showers) (G) (S)

Approved Copy:

AFRA/SOCI 2250. Racial Disparities in Health
3 credits.
Social determinants of health. Racial differences in health outcomes. Social, economic, and political structures and their impacts on health organization and inequalities in care delivery. Patient-provider interactions; meanings of illness. (CA2)

2020-230   HIST 2205W   Revise Course (guest: Frank Costigliola) (G) (S)

Current Copy:

HIST 3205. Personality and Power in the Twentieth Century
3.00 credits
Graded
Prerequisites: None
Dynamic leadership in historical crises, including, for example, Churchill, Roosevelt, Stalin, Hitler, DeGaulle, Kennedy, and Mao.

Approved Copy:

HIST 2205. Personality and Power in History
3.00 credits
Graded
Prerequisites: None
Analysis of the links between personality and power in various countries and across different eras. CA 1 (C)

HIST 2205W. Personality and Power in History
3.00 credits
Graded
Prerequisites: ENGL 1007 or 1010 or 1011 or 2011

2020-258   HIST/MAST 3544   Revise Course

Current Copy:

HIST/MAST 3544. Atlantic Voyages
Three credits.
Seafaring and society since the age of Columbus. Emphasis on the Anglo-American experience.

Approved Copy:

HIST/MAST 3544. Atlantic Voyages: European Maritime Expansion, 1400-1650.
Three credits.
Late medieval and early modern European expansion into the Atlantic and Indian oceans, with particular attention to European, Asian, African, and American contexts within which that expansion took place. Topics include the transatlantic slave trade; technology adoption and adaptation; convergence of trade, racial ideology, imperial expansion, and imperial identity construction; piracy and settlement; historiographical legacies and later imperialism; and decolonization of contemporary understandings.

2020-231   BIST   Revise BIST M.S. (guest: Ming Chen)

Current Copy:

The Department of Statistics offers programs leading to a Professional Master of Science (M.S.) degree in Biostatistics (as well as Master of Science and Doctor of Philosophy (Ph.D.) degrees in Statistics, described elsewhere). The M.S. in Biostatistics requires 31 credits. Qualified full-time students are expected to complete the program in three to four semesters. The program focuses on practical skills and rigorous training in modern areas of biostatistics to solve problems in public health, health services and policy, biomedical research, and other areas such as environmental health and ecology. Students completing this program successfully will acquire expertise in topics including statistical inference, regression analysis, design and analysis of clinical trials and epidemiological studies, bioinformatics, programming in SAS and R, data management, and consulting. Individuals with a Bachelor's degree in any major who have a background in mathematics and statistics are encouraged to apply.

Required Courses: BIST 5099, 5215, 5225; BIST 5505–5605; BIST 5515; BIST 5585–5685; BIST 5625, 5725.

Required Electives: One of the following courses: BIST 5635, 5645, or 5655. One additional course: BIST 5361, 5525, 5535, 5635, 5645, 5665, 5725, 5825 or BIST 6494 when taught as "Bayesian Data Analysis," "Bioinformatics," "Categorical Data Analysis," "Longitudinal Data Analysis," or "Environmental Statistics." The final requirement is passing the Master's Examination which is a written test on basic understanding of course materials. There is no thesis requirement.

Note: In order to be considered for a possible switch to the Ph.D. program or for financial support, a Professional M.S. in Biostatistics student must first clear the Master's Examination, and then clear the Ph.D. Qualifying Examination.

The program is offered by the College of Liberal Arts and Sciences.

Approved Copy:

A student should take at least ten (10) 3-credit courses and a 1-credit internship/practicum course BIST 5091 or BIST 5092.

The following nine (9) courses are required:

BIST 5091. Biostatistics Internship or BIST 5092. Biostatistics Practicum
BIST 5505. Applied Statistics I
BIST 5605. Applied Statistics II
BIST 5585. Mathematical Statistics I
BIST 5685. Mathematical Statistics II
BIST 5215. Statistical Consulting
BIST 5225. Data Management and Programming in SAS and R
BIST 5625. Introduction to Biostatistics
BIST 5635. Clinical Trials

Two (2) elective courses should be chosen from the following courses, with one of them required to be BIST 5645 Concepts and Analysis of Survival Data, or BIST 5655 Epidemiology or BIST 5615 Categorical Data Analysis:
BIST 5615. Categorical Data Analysis
BIST 5515. Design of Experiment
BIST 5645. Concepts and Analysis of Survival Data
BIST 5655. Epidemiology
BIST 5705. Statistical Methods in Bioinformatics
BIST 5815. Longitudinal Data Analysis

Depending on how long a student plans to take to complete the Master's program, the following are recommended sequences of courses.

Three Semesters
- BIST 5505, BIST 5585, BIST 5625, BIST 5225
- BIST 5605, BIST 5635, BIST 5685, BIST 5091 or 5092 or Elective
- BIST 5215, BIST 5091 or BIST 5092 or Elective, 1 Elective course

Four Semesters
- BIST 5505, BIST 5585, BIST 5625
- BIST 5605, BIST 5635, 1 Elective course
- BIST 5225, BIST 5091 or 5092 or Elective, 1 Elective course
- BIST 5685, BIST 5215, BIST 5091 or 5092 or Elective

2020-232   BIST/STAT 5099   Revise Course (guest: Ming Chen)

Current Copy:

STAT/BIST 5099. Investigation of Special Topics

1.00 credit
Prerequisites: None
Grading Basis: Graded
Topical seminar course

Approved Copy:

STAT 5095. Investigation of Special Topics

1.00 credit. <mark>Repeatable with a change of topic to a maximum of 3 credits.</mark>
Prerequisites: None
Grading Basis: Graded
Topical seminar course

BIST 5091. Biostatistics Internship
1.00-3.00 credit. Repeatable to a maximum of 3 credits.
Prerequisites: None
Grading Basis: S/U

BIST 509<mark>2</mark>. Biostatistics Practicum

1.0   credit. Repeatable with a change of topic to a maximum of 3 credits.
Prerequisites: None
Grading Basis: Graded
Participation in two-week Biopharmaceutical Summer Academy.

2020-233   BIST/STAT 5125   Revise Course (guest: Ming Chen)

Current Copy:

STAT/<mark>BIST</mark> 5125. Computing for Statistical Data Science

3.00 credits
Prerequisites: Introductory course in mathematical and applied statistics; introductory course in programming. Instructor consent required.
Grading Basis: Graded
Principles and practice of statistical computing in data science: data structure, data programming, data visualization, simulation, resampling methods, distributed computing, and project management tools. Prerequisites: Introductory course in mathematical and applied statistics; introductory course in programming.

Approved Copy:

STAT 5125. Computing for Statistical Data Science
3.00 credits
Prerequisites: Introductory course in mathematical and applied statistics; introductory course in programming. Instructor consent required..

Grading Basis: Graded
Principles and practice of statistical computing in data science: data structure, data programming, data visualization, simulation, resampling methods, distributed computing, and project

management tools. Prerequisites: Introductory course in mathematical and applied statistics; introductory course in programming.

2020-234   BIST/STAT 5215   Revise Course (guest: Ming Chen)

Current Copy:

STAT/BIST 5215. Statistical Consulting

3.00 credits
Prerequisites: STAT 5315, STAT 5505, STAT 5605 and STAT 5725, or instructor consent.
Grading Basis: Graded
Applied inference for academia, government, and industry: ethical guidelines, observational studies, surveys, clinical trials, designed experiments, data management, aspects of verbal and written communication, case studies.

Approved Copy:

STAT/BIST 5215. Statistical Consulting

3.00 credits
Prerequisites: STAT/BIST 5315, STAT/BIST 5505, and STAT/BIST 5605, or instructor consent.
Grading Basis: Graded
Applied inference for academia, government, and industry: ethical guidelines, observational studies, surveys, clinical trials, designed experiments, data management, aspects of verbal and written communication, case studies.

2020-235   BIST/STAT 5225   Revise Course (guest: Ming Chen)

Current Copy:

STAT/BIST 5225. Data Management and Programming in R and SAS
3.00 credits
Prerequisites: STAT 5505 and 5605, or instructor consent.
Grading Basis: Graded
Creation and management of datasets for statistical analysis: software tools and databases, user-defined functions, importing/exporting/manipulation of data, conditional and iterative processing, generation of reports.

Approved Copy:

STAT/BIST 5225. Data Management and Programming in R and SAS
3.00 credits
Prerequisites: STAT/BIST 5505 and STAT/BIST 5605, or instructor consent.
Grading Basis: Graded

Creation and management of datasets for statistical analysis: software tools and databases, user-defined functions, importing/exporting/manipulation of data, conditional and iterative processing, generation of reports.

2020-236   BIST/STAT 5361   Revise Course (guest: Ming Chen)

Current Copy:

STAT/ BIST 5361. Statistical Computing

3.00 credits
Prerequisites: Open to graduate students in Statistics, others with permission
Grading Basis: Graded
Use of computing for statistical problems; obtaining features of distributions, fitting models and implementing inference. Basic numerical methods, nonlinear statistical methods, numerical integration, modern simulation methods

Approved Copy:

STAT 5361. Statistical Computing

3.00 credits
Prerequisites: Open to graduate students in Statistics, others with permission
Grading Basis: Graded
Use of computing for statistical problems; obtaining features of distributions, fitting models and implementing inference. Basic numerical methods, nonlinear statistical methods, numerical integration, modern simulation methods.

2020-237   BIST/STAT 5505   Revise Course (guest: Ming Chen)

Current Copy:

STAT/BIST 5505. Applied Statistics I

3.00 credits
Prerequisites: Open to graduate students in Statistics, others with permission.
Grading Basis: Graded

Exploratory data analysis: stem-and leaf plots, Box-plots, symmetry plots, quantile plots, transformations, discrete and continuous distributions, goodness of fit tests, parametric and non-parametric inference for one sample and two sample problems, robust estimation, Monte Carlo inference, bootstrapping.

Approved Copy:

STAT/BIST 5505. Applied Statistics I

3.00 credits
Prerequisites: Open to graduate students in Statistics ==and Biostatistics==, others with permission.
Grading Basis: Graded

Exploratory data analysis: stem-and leaf plots, Box-plots, symmetry plots, quantile plots, transformations, discrete and continuous distributions, goodness of fit tests, parametric and non-parametric inference for one sample and two sample problems, robust estimation, Monte Carlo inference, bootstrapping.

2020-238   BIST/STAT 5525   Revise Course (guest: Ming Chen)

Current Copy:

STAT==/BIST== 5525. Sampling Theory

3.00 credits
Prerequisites: Open to graduate students in Statistics, others with permission
Grading Basis: Graded
Sampling and nonsampling error, bias, sampling design, simple random sampling, sampling with unequal probabilities, stratified sampling, optimum allocation, proportional allocation, ratio estimators, regression estimators, super population approaches, inference in finite populations.

Approved Copy:

STAT 5525. Sampling Theory

3.00 credits
Prerequisites: Open to graduate students in Statistics, others with permission
Grading Basis: Graded
Sampling and nonsampling error, bias, sampling design, simple random sampling, sampling with unequal probabilities, stratified sampling, optimum allocation, proportional allocation, ratio estimators, regression estimators, super population approaches, inference in finite populations.

2020-239   BIST/STAT 5535   Revise Course (guest: Ming Chen)

Current Copy:

STAT==/BIST== 5535. Nonparametric Methods

3.00 credits
Prerequisites: Not open to students who have passed STAT 4875.
Grading Basis: Graded
Theory and applications of statistical methods for analyzing ordinal, non-normal data: one and multiple sample hypothesis testing, empirical distribution functions and applications, order statistics, rank tests, efficiency, linear and nonlinear regression, classification.

STAT 5535. Nonparametric Methods

3.00 credits
Prerequisites: Not open to students who have passed STAT 4875.
Grading Basis: Graded
Theory and applications of statistical methods for analyzing ordinal, non-normal data: one and multiple sample hypothesis testing, empirical distribution functions and applications, order statistics, rank tests, efficiency, linear and nonlinear regression, classification.

2020-240   BIST/STAT 5605   Revise Course (guest: Ming Chen)

Current Copy:

STAT/BIST 5605. Applied Statistics II

3.00 credits
Prerequisites: Prerequisite: STAT 5505
Grading Basis: Graded
Analysis of variance, regression and correlation, analysis of covariance, general linear models, robust regression procedures, and regression diagnostics.

Approved Copy:

STAT/BIST 5605. Applied Statistics II

3.00 credits
Prerequisites: Prerequisite: STAT/==BIST== 5505
Grading Basis: Graded
Analysis of variance, regression and correlation, analysis of covariance, general linear models, robust regression procedures, and regression diagnostics.

2020-241   BIST/STAT 5615   Revise Course (guest: Ming Chen)

Current Copy:

==STAT/==BIST 5615. Categorical Data Analysis

3.00 credits
Prerequisites: STAT/BIST 5505 and STAT/BIST 5605, or instructor consent
Grading Basis: Graded
Statistical analysis of data on a nominal scale: discrete distributions, contingency tables, odds ratios, interval estimates, the goodness of fit tests, logistic/probit/complementary log-log regression, Poisson-related regression

Approved Copy:

BIST 5615. Categorical Data Analysis

3.00 credits
Prerequisites: BIST 5505 and BIST 5605, or instructor consent
Grading Basis: Graded
Statistical analysis of data on a nominal scale: discrete distributions, contingency tables, odds ratios, interval estimates, goodness of fit tests, logistic/probit/complementary log-log regression, Poisson-related regression.

2020-242   BIST/STAT 5625   Revise Course (guest: Ming Chen)

Current Copy:

==STAT==/BIST 5625

3.00 credits
Grading Basis: Graded
Rates and proportions, sensitivity, specificity, two-way tables, odds ratios, relative risk, ordered and non-ordered classifications, rends, case-control studies, elements of regression including logistic and Poisson, additivity and interaction, combination of studies and meta-analysis.

Approved Copy:

BIST 5625

3.00 credits
Prerequisites: Open to graduate students in Biostatistics, others with permission
Grading Basis: Graded
Rates and proportions, sensitivity, specificity, two-way tables, odds ratios, relative risk, ordered and non-ordered classifications, rends, case-control studies, elements of regression including logistic and Poisson, additivity and interaction, combination of studies and meta-analysis.

2020-243   BIST/STAT 5635   Revise Course (guest: Ming Chen)

Current Copy:

==STAT==/BIST 5635. Clinical Trials

3.00 credits
Grading Basis: Graded
Basic concepts of clinical trial analysis; controls, randomization, blinding, surrogate endpoints, sample size calculations, sequential monitoring, side-effect evaluation and intention-to-treat

analyses. Also, experimental designs including dose-response study, multicenter trials, clinical trials for drug development, stratification, and cross-over trials.

Approved Copy:

BIST 5635. Clinical Trials

3.00 credits
Prerequisites: Open to graduate students in Biostatistics, others with permission.
Grading Basis: Graded
Basic concepts of clinical trial analysis; controls, randomization, blinding, surrogate endpoints, sample size calculations, sequential monitoring, side-effect evaluation and intention-to-treat analyses. Also, experimental designs including dose-response study, multicenter trials, clinical trials for drug development, stratification, and cross-over trials.

2020-244   BIST/STAT 5645   Revise Course (guest: Ming Chen)

Current Copy:

STAT/BIST 5645. Concepts and Analysis of Survival Data

3.00 credits
Grading Basis: Graded
Survival models, censoring and truncation, nonparametric estimation of survival functions, comparison of treatment groups, mathematical and graphical methods for assessing goodness of fit, parametric and nonparametric regression models.

Approved Copy:

BIST 5645. Concepts and Analysis of Survival Data

3.00 credits
Prerequisites: Open to graduate students in Biostatistics, others with permission
Grading Basis: Graded
Survival models, censoring and truncation, nonparametric estimation of survival functions, comparison of treatment groups, mathematical and graphical methods for assessing goodness of fit, parametric and nonparametric regression models.

2020-245   BIST/STAT 5655   Revise Course (guest: Ming Chen)

Current Copy:

STAT/BIST 5655. Epidemiology

3.00 credits
Prerequisites: Open to graduate students in the Department of Statistics, others with consent.

Grading Basis: Graded
The statistical study of health and illness in human and veterinary populations: epidemiological study designs, measures of disease frequency/effect/potential impact, selection and information biases, confounding, stratified analysis.

Approved Copy:

BIST 5655. Epidemiology

3.00 credits
Prerequisites: Open to graduate students in Biostatistics, others with consent.
Grading Basis: Graded
The statistical study of health and illness in human and veterinary populations: epidemiological study designs, measures of disease frequency/effect/potential impact, selection and information biases, confounding, stratified analysis.

2020-246   BIST/STAT 5665   Revise Course (guest: Ming Chen)

Current Copy:

STAT/==BIST== 5665. Applied Multivariate Analysis

3.00 credits
Prerequisites: Open to graduate students in Statistics, others with permission
Grading Basis: Graded
Multivariate normal distributions, inference about a mean vector, comparison of several multivariate means, principal components, factor analysis, canonical correlation analysis, discrimination and classification, cluster analysis.

Approved Copy:

STAT 5665. Applied Multivariate Analysis

3.00 credits
Prerequisites: Open to graduate students in Statistics, others with permission
Grading Basis: Graded
Multivariate normal distributions, inference about a mean vector, comparison of several multivariate means, principal components, factor analysis, canonical correlation analysis, discrimination and classification, cluster analysis.

2020-247   BIST/STAT 5675   Revise Course (guest: Ming Chen)

Current Copy:

STAT/==BIST== 5675. Bayesian Data Analysis

3.00 credits
Prerequisites: STAT 5585 and STAT 5685, or instructor consent.
Grading Basis: Graded
Theory of statistical inference based on Bayes' Theorem: basic probability theory, linear/nonlinear, graphical, and hierarchical models, decision theory, Bayes estimation and hypothesis testing, prior elicitation, Gibbs sampling, the Metropolis-Hastings algorithm, Monte Carlo integration.

Approved Copy:

STAT 5675. Bayesian Data Analysis

3.00 credits
Prerequisites: STAT 5585 and STAT 5685, or instructor consent.
Grading Basis: Graded
Theory of statistical inference based on Bayes' Theorem: basic probability theory, linear/nonlinear, graphical, and hierarchical models, decision theory, Bayes estimation and hypothesis testing, prior elicitation, Gibbs sampling, the Metropolis-Hastings algorithm, Monte Carlo integration.

2020-248   BIST/STAT 5685   Revise Course (guest: Ming Chen)

Current Copy:

STAT/BIST 5685. Mathematical Statistics II
3.00 credits
Prerequisites: Prerequisite: STAT 5585
Grading Basis: Graded
The sufficiency principle, the likelihood principle, the invariance principle, point estimation, methods of evaluating point estimators, hypotheses testing, methods of evaluating tests, interval estimation, methods of evaluating interval estimators.

Approved Copy:

STAT/BIST 5685. Mathematical Statistics II
3.00 credits
Prerequisites: Prerequisite: STAT/==BIST== 5585
Grading Basis: Graded
The sufficiency principle, the likelihood principle, the invariance principle, point estimation, methods of evaluating point estimators, hypotheses testing, methods of evaluating tests, interval estimation, methods of evaluating interval estimators.

2020-249   BIST/STAT 5705   Revise Course (guest: Ming Chen)

Current Copy:

STAT/BIST 5705. Statistical Methods in Bioinformatics

3.00 credits
Prerequisites: STAT/BIST 5505 and STAT/BIST 5585, or instructor consent.
Grading Basis: Graded
Statistical methods and software tools for the analysis of biological data: sequencing methods; gene alignment methods; expression analysis; evolutionary models; analysis of proteomics, metabolomics, and methylation data; pathway analysis: gene network analysis.

Approved Copy:

BIST 5705. Statistical Methods in Bioinformatics

3.00 credits
Prerequisites: BIST 5505 and BIST 5585, or instructor consent.
Grading Basis: Graded
Statistical methods and software tools for the analysis of biological data: sequencing methods; gene alignment methods; expression analysis; evolutionary models; analysis of proteomics, metabolomics, and methylation data; pathway analysis: gene network analysis.

2020-250   BIST/STAT 5725   Revise Course (guest: Ming Chen)

Current Copy:

STAT/<mark>BIST</mark> 5725. Linear Models I

3.00 credits
Prerequisites: Open to graduate students in Statistics, others with permission
Grading Basis: Graded
Linear and matrix algebra concepts, generalized inverses of matrices, multivariate normal distribution, distributions of quadratic forms in normal random vectors, least squares estimation for full rank and less than full rank linear models, estimation under linear restrictions, testing linear hypotheses.

Approved Copy:

STAT 5725. Linear Models I

3.00 credits
Prerequisites: Open to graduate students in Statistics, others with permission
Grading Basis: Graded
Linear and matrix algebra concepts, generalized inverses of matrices, multivariate normal distribution, distributions of quadratic forms in normal random vectors, least squares estimation for full rank and less than full rank linear models, estimation under linear restrictions, testing linear hypotheses.

2020-251   BIST/STAT 5735   Revise Course (guest: Ming Chen)

Current Copy:

STAT/BIST 5735. Linear Models II

3.00 credits
Prerequisites: STAT/BIST 5725, STAT/BIST 5505, and STAT/BIST 5605. Open to students
who have passed the PhD Qualifying Examination in Statistics; others with permission
Grading Basis: Graded
Multiple comparisons, fixed-effects linear models, random-effects and mixed-effects models,
generalized linear models, variable selections, regularization and sparsity, support vector
machines, additive models, and Bayesian linear models.

Approved Copy:

STAT 5735. Linear Models II

3.00 credits
Prerequisites: STAT 5725, STAT 5505, and STAT 5605. Open to students who have passed the
PhD Qualifying Examination in Statistics; others with permission
Grading Basis: Graded
Multiple comparisons, fixed-effects linear models, random-effects and mixed-effects models,
generalized linear models, variable selections, regularization and sparsity, support vector
machines, additive models, and Bayesian linear models.

2020-252   BIST/STAT 5815   Revise Course (guest: Ming Chen)

Current Copy:

STAT/BIST 5815. Longitudinal Data Analysis

3.00 credits
Prerequisites: STAT/BIST 5505 and STAT/BIST5605, or instructor consent
Grading Basis: Graded
Statistical theory and methodology for data collected over time in a clustered manner: design of
experiments, exploratory data analysis, linear models for continuous data, general linear models
for discrete data, marginal and mixed models, treatment of missing data.

Approved Copy:

BIST 5815. Longitudinal Data Analysis

3.00 credits
Prerequisites: BIST 5505 and BIST5605, or instructor consent
Grading Basis: Graded

Statistical theory and methodology for data collected over time in a clustered manner: design of experiments, exploratory data analysis, linear models for continuous data, general linear models for discrete data, marginal and mixed models, treatment of missing data.

2020-253   BIST/STAT 5825   Revise Course (guest: Ming Chen)

Current Copy:

STAT/BIST 5825. Applied Time Series

3.00 credits
Prerequisites: Open to graduate students in Statistics, others with permission
Grading Basis: Graded
Introduction to prediction using time-series regression methods with non-seasonal and seasonal data. Smoothing methods for forecasting. Modeling and forecasting using univariate autoregressive moving average models.

Approved Copy:

STAT 5825. Applied Time Series

3.00 credits
Prerequisites: Open to graduate students in Statistics, others with permission
Grading Basis: Graded
Introduction to prediction using time-series regression methods with non-seasonal and seasonal data. Smoothing methods for forecasting. Modeling and forecasting using univariate autoregressive moving average models.

2020-254   BIST/STAT 5915   Revise Course (guest: Ming Chen)

Current Copy:

STAT/BIST 5915. Statistical Data Science in Action

3.00 credits
Prerequisites: STAT 5405 or instructor consent
Grading Basis: Graded
Real-world statistical data science practice: problem formulation; integration of statistics, computing, and domain knowledge; collaboration; communication; reproducibility; project management.

Approved Copy:

STAT 5915. Statistical Data Science in Action

3.00 credits

Prerequisites: STAT 5405 or instructor consent
Grading Basis: Graded
Real-world statistical data science practice: problem formulation; integration of statistics, computing, and domain knowledge; collaboration; communication; reproducibility; project management.

2020-255   BIST/STAT 6494   Revise Course (guest: Ming Chen)

Current Copy:

BIST/==STAT== 6494. Seminar in Applied Statistics
1.00 - 6.00 credits | May be repeated for a total of 24 credits.
Prerequisites: Open to graduate students in Statistics, others with permission.
Grading Basis: Graded

Approved Copy:

BIST 6494. Seminar in Biostatistics
==3.00 credits==| May be repeated for a total of 24 credits
Prerequisites: Open to graduate students in Biostatistics, others with permission.
Grading Basis: Graded

2020-256   AMST 2293   Add Course (S)

Approved Copy:

AMST 2993. International Study
1.00 - 9.00 credits | May be repeated for credit to a maximum of 12 credits.
Prerequisites: None.
Grading Basis: Graded
Special topics taken in an international study program. Consent of department head required, normally to be granted prior to the student's departure.

2020-257   ENGL 2640/W   Revise Course (G) (S)

Current Copy:

ENGL 2640. Studies in Film
3.00 - 6.00 credits | May be repeated for a total of 6 credits.
Prerequisites: ENGL 1007 or 1010 or 1011 or 2011.
Grading Basis: Graded
Exploration of focused topics in film. Course content varies by section. CA 1.

ENGL 2640W. Studies in Film
3.00 - 6.00 credits | May be repeated for a total of 6 credits.
Prerequisites: ENGL 1007 or 1010 or 1011 or 2011.

Grading Basis: Graded

Approved Copy:

ENGL 2640. Studies in Film
3.00 credits | May be repeated for a total of 6 credits.
Prerequisites: ENGL 1007 or 1010 or 1011 or 2011.
Grading Basis: Graded
Exploration of focused topics in film. Course content varies by section. CA 1.

ENGL 2640W. Studies in Film
3.00 credits | May be repeated for a total of 6 credits.
Prerequisites: ENGL 1007 or 1010 or 1011 or 2011.
Grading Basis: Graded

2020-211   GEOG/GSCI 2310E Revise Course (guest: Julie Fosdick) (G) (S)

Current Copy:

GEOG 2310. National Parks Unearthed: Geology and Landscapes through Time
Also offered as: GSCI 2310
3.00 credits
Prerequisites: None.
Grading Basis: Graded
Geologic processes that shape the Earth's landscapes and interior through the study of National Parks, Monuments, and Seashores. Plate tectonics, climate and biotic change, natural hazards and resources, and environmental conservation.

Approved Copy:

GEOG 2310E. Creating and Sustaining National Parks
Also offered as: GSCI 2310E
3.00 credits
Prerequisites: None.
Grading Basis: Graded
Geologic processes that create the Earth's iconic landscapes through the study of National Parks, Monuments, and Seashores. Plate tectonics, climate and biotic change, natural hazards, Earth materials and resources, environmental conservation, and the interactions between human society and the natural world.

DISCUSSION:

New Add Special Topics Form:
The registrar's office has offered to create an Add Special Topics form that is similar to the Research & Experiential Courses form, which faculty have found quite easy to use and which the registrar appreciates because it keeps all special topics requests together and easily searchable. CLAS and CAHNR are the only two colleges that require college-level approval for special topics. CLAS is the only college that vets the instructor's qualifications at the college-level C&C when the instructor is not a regular member of the department's faculty.

The current process is that when a CLAS C&C member fills out an Add Special Topics form (available at https://ccc.clas.uconn.edu/course-action-request-car/), the member must submit an instructor CV if the instructor is not a regular member of the department's faculty. This CV is shared with the CLAS C&C committee and becomes part of the official record of the committee's work.

Bedore asked the committee if there is a commitment to retaining the requirement that adjunct instructor CVs be vetted by the CLAS C&C as part of the Special Courses approval process.

Lively debate ensued and CLAS C&C members will consult with their constituents on this issue. The committee will revisit at a later meeting and Bedore will report back to the registrar so the new Add Special Topics form may be built to suit the committee's needs.

International Study vs. Foreign Study
For some years, there has been debate about whether to title xx93 courses "International Study" or "Foreign Study." Bedore asked the committee to consider if the college has a preference on this matter. If it does, she will investigate the possibility of doing a mass replacement revision to create consistency in these course titles.

Committee Goals for 2020/21
The committee did not have time to discuss goals for 20/21. Please ask your constituents about any college-level curricular goals that might be investigated during this academic year. Please email Bedore with any suggestions and she will share with the committee.

ATTENDANCE:

Na-Rae Kim	AAAS
Shawn Salvant	AFRA
Matthew McKenzie	AMST/HIST/MAST
César Abadia	ANTH/HRTS
Fatma Selampinar	CHEM
Rebecca Bacher	CLAS Dean's Office
Mansour Ndiaye	CLAS Dean's Office
Evelyn Tribble	CLAS Dean's Office, WGSS
Stephen Stifano	COMM
Richard Langlois	ECON
Christopher Vials	ENGL
Debs Ghosh	EVST/GEOG
Jean Crespi	GSCI
Beth Russell	HDFS
Sara Johnson	LCL
Anne Gebelein	LLAS
Heidi Dierssen	MARN
Guojun Gan	MATH
David Knecht	MCB
Alexus McLeod	PHIL
Vernon Cormier	PHYS
John Redden	PNB
Evan Perkoski	POLS
Rob Henning	PSYC
Lendra Friesen	SLHS
Ralph McNeal	SOCI
Rick Vitale	STAT
Victor Hugo Lachos	STAT
Ariana Codr	WGSS
Guests:	
Ming Chen	STAT
Frank Costigliola	HIST
Julie Fosdick	GSCI
Fumilayo Showers	SOCI