

SUBCOMMITTEE B – AGENDA

437 Administration Building
November 15, 2018
1:30 p.m.

PART I – NEW ACADEMIC PROGRAMS AND PROGRAM CHANGES

COLLEGE OF SOCIAL SCIENCE

1. Request to establish a **Minor in Social Science Data Analytics** in the College of Social Science. The University Committee on Undergraduate Education (UCUE) recommended approval of this request at its September 6, 2018.

- a. **Background Information:**

Data Scientist is currently the hottest job position in the United States, and data analytics is the hottest sector. Given the large and growing importance of the information economy, there is high confidence that training in data analytics will be among the most important skills MSU students can attain for years to come. This minor is founded on the core vision that undergraduate students in Social Science can be well positioned to participate in this rapidly growing sector, in or out of academia. It is aimed at providing undergraduate students with the ability to understand and use computational tools to solve social science problems. The courses in the minor empower the students to understand how core social science skills, such as critical thinking and theoretically oriented analysis, are very useful in the systematic collection, integration, analysis, and presentation of potentially large-scale and dense information.

The minor consists of four stages: an entry course, a quantitative methods course, two tools courses, and a capstone course, detailed below. In this way, every student obtains a consistent learning experience through entry and exit while having the flexibility to tailor quantitative and tools skills to their particular interests. The interdisciplinary entry course, PLS 202, introduces computational tools to analyze various types of social science data, and provides examples of how these complex data structures are studied by social scientists to understand, explain, and predict a variety of important problems, with examples ranging from armed conflict to trade.

The quantitative methods course is chosen by the student, in consultation with their undergraduate advisor, from a list of courses that ground the students in fundamental data handling, modeling, and statistical inference concepts and skills. Courses from departments across the College of Social Science and in the Department of Statistics and Probability are in this list, enabling disciplinary content to customize each student's program experience. The tools courses enable students to choose which technical skills they want to more fully develop and include options in the College of Social Science on econometrics and spatial data processing as well as courses in Computational Mathematics, Science, and Engineering and Computer Science on computational modeling and programming.

While the early courses introduce students to data analytics tools and methodologies, the capstone course explores the intersection of machine learning and social science and aims to answer two primary questions about these new techniques:

(i) How do they work and what kinds of statistical guarantees can be made about their performance? (ii) How can they be used to answer questions that interest social science researchers, such as testing theories or improving social policy? It is designed to teach students to think about data analytics broadly and how novel approaches can answer fundamental questions across various social science disciplines. Accordingly, the first half of the course emphasizes the theory-underlying machine learning while the second half emphasizes techniques and applications in social science.

The College of Social Science established a Social Science Data Analytics (SSDA) program several years ago, with both research and teaching aims, in an effort to establish MSU as a leader in this emerging area of social science research. This minor is the principal undergraduate curriculum initiative of the SSDA program. The College has a significant number of faculty members across many departments working in this research area; and has already hired a number of faculty members to build capacity and establish academic leadership in this area.

The minor will serve an important role in the College of Social Science curriculum, which now requires an interdisciplinary minor—especially as a minor attractive to B.S. students in Economics and others in the College with quantitative social science interests. It will also provide critical tools

for students to apply skills developed in CMSE, CSE, and STT courses to problems in the social sciences.

b. **Academic Programs Catalog Text:**

The Minor in Social Science Data Analytics, administered by the College of Social Science, enhances the education and empowers students interested in understanding how core social science skills such as critical thinking and theoretically oriented analysis are useful in the systematic collection, integration, analysis, and presentation of large-scale and dense information.

The minor is available as an elective to students who are enrolled in bachelor's degree programs in the College of Social Science. With the approval of the department and college that administer the student's degree program, the courses that are used to satisfy the minor may also be used to satisfy the requirements for the bachelor's degree.

Requirements for the Minor in Social Science Data Analytics

CREDITS

Students must complete a minimum of 15 credits from the following:

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|----|---|--|---|
| 1. | The following course (3 credits): | | |
| | PLS 202 | Introduction to Data Analytics
and the Social Sciences | 3 |
| 2. | One of the following quantitative methods courses (3 or 4 credits): | | |
| | EC 420 | Introduction to Econometric Methods | 3 |
| | GEO 363 | Introduction to Quantitative Methods for
Geographers | 3 |
| | PSY 395 | Research Design and Measurement in
Psychological Research | 3 |
| | SOC 282 | Quantitative Analysis for Social Research | 4 |
| | STT 201 | Statistical Methods | 4 |
| | STT 315 | Introduction to Probability and Statistics
for Business | 3 |
| 3. | Two of the following courses (6 to 8 credits): | | |
| | CMSE 201 | Introduction to Computational Modeling | 4 |
| | CMSE 202 | Computational Modeling Tools and Techniques | 4 |
| | CSE 231 | Introduction to Programming I | 4 |
| | CSE 232 | Introduction to Programming II | 4 |
| | EC 421 | Advanced Econometric Methods | 3 |
| | GEO 325 | Geographic Information Systems | 3 |
| | GEO 429 | Geoprocessing | 3 |
| | PLS 397 | Analyzing and Visualizing Data in Politics | 3 |
| 4. | The following capstone course (3 credits): | | |
| | SSC 442 | Social Science Data Analytic Applications | 3 |

Effective Fall 2019.

2. Request to change the requirements for the **Bachelor of Arts** degree in **Human Capital and Society** in the School of Human Resources and Labor Relations.

a. Under the heading **Requirements for the Bachelor of Arts Degree in Human Capital and Society** make the following changes:

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|-----|---|---|---|
| (1) | In item 3. d. under General add the following course: | | |
| | SSC 490 | Special Topics in Social Science | 3 |
| (2) | Change item 3. e. to 'Complete at least 2 courses (6 credits) from the following courses:'. | | |
| (3) | In item 3. e. under Anthropology add the following courses: | | |
| | ANP 220 | Gender Relations in Comparative Perspective | 3 |
| | ANP 330 | Race, Ethnicity, and Nation: Anthropological
Approaches to Collective Identity | 3 |

- (4) In item 3. e. under **Geography** add the following course:
- | | | | |
|-----|-----|---------------------------------|---|
| GEO | 151 | Introduction to Human Geography | 3 |
|-----|-----|---------------------------------|---|
- (5) In item 3. e. under **History** add the following courses:
- | | | | |
|-----|-----|---|---|
| HST | 225 | Law, History and Society in the United States | 3 |
| HST | 305 | The Making of the Modern United States | 3 |
| HST | 313 | Women in the United States to 1869 | 3 |
| HST | 314 | Women in the United States since 1869 | 3 |
- (6) In item 3. e. add **Human Development and Family Studies** and the following course:
- | | | | |
|------|-----|----------------------------|---|
| HDFS | 442 | Ethnic Families in America | 3 |
|------|-----|----------------------------|---|
- (7) In item 3. e. under **Sociology** delete the following course:
- | | | | |
|-----|-----|-------------------|---|
| SOC | 322 | Sociology of Work | 3 |
|-----|-----|-------------------|---|
- Add the following courses:
- | | | | |
|-----|-----|--|---|
| SOC | 161 | International Development and Change | 3 |
| SOC | 214 | Social Inequality | 3 |
| SOC | 241 | Social Psychology | 3 |
| SOC | 481 | Social Movements and Collective Identities | 3 |

Effective Summer 2019.

PART II - NEW COURSES AND CHANGES

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

- CSUS 429 Program Evaluation for Community Sustainability
Fall of every year. 3(3-0) P: ~~(((MTH 103) and (STT 200 or STT 201)) or (MTH 103 and MTH 114) or MTH 116 or MTH 124) and ((CSUS 200 or EEP 255) and completion of Tier I writing requirement)~~
P: ~~(((MTH 103) and (STT 200 or STT 201)) or (MTH 103 and MTH 114) or MTH 116 or MTH 124) and ((CSUS 200 or EEM 255) and completion of Tier I writing requirement)~~
Concepts, theories, and procedures in program evaluation. Practical methods and skills to plan and implement evaluations of community, agriculture, and natural resources programs.
SA: ACR 415
~~Effective Fall 2017~~ Effective Spring 2019
- CSUS 464 Environmental and Natural Resource Policy in Michigan
Spring of every year. 3(3-0) ~~Interdepartmental with Environmental Economics and Policy. Interdepartmental with Environmental Economics and Management P: CSUS 200 or EEP 255 or approval of department~~
P: CSUS 200 or EEM 255 or approval of department
State legislative process and its role in environmental and natural resource policy formulation. Influence of lobbying, citizen engagement and political factors.
SA: ESA 440, RD 440
~~Effective Fall 2014~~ Effective Spring 2019
- CSUS 465 Environmental and Natural Resource Law
Fall of every year. 3(3-0) ~~Interdepartmental with Environmental Economics and Policy and Forestry. Interdepartmental with Environmental Economics and Management and Forestry P: CSUS 200 or EEP 255~~
P: CSUS 200 or EEM 255 R: Open to juniors or seniors or graduate students.
Legal principles and process related to the environment and natural resources. Common law, constitutional law, statutory and administrative law.
SA: ESA 430, RD 430
~~Effective Summer 2015~~ Effective Spring 2019
- PDC 403 Intro to Domicology: Sustainable Built Environment
Spring of every year. 3(3-0) P: Completion of Tier I Writing Requirement R: Open to juniors or seniors or graduate students.
- NEW The lifecycle of structures. Causes and impacts of structural abandonment, and sustainable tools, policies, and practices to address it
Effective Spring 2019

COLLEGE OF SOCIAL SCIENCE

- ANP 859 Gender, Justice, and Environmental Change: Methods and Application
~~Spring of even years. Spring of every year. 3(3-0) Interdepartmental with Forestry and Fisheries and Wildlife and Geography and Resource Development and Sociology. Interdepartmental with Community Sustainability and Forestry and Fisheries and Wildlife and Geography and Sociology and Women's Studies~~
RB: Background in social science, environmental science, or natural resources.
Methods and case studies related to gender, ecology, and environmental studies. Methodological and fieldwork issues from a feminist perspective in international and intercultural contexts. Qualitative and quantitative methods for integrating social and environmental data.
~~Effective Summer 2004~~ Effective Summer 2018

- CJ 485 ~~Critical Issues in Private Security (W)~~
Critical Issues in Private Security
Spring of every year. 3(3-0) ~~P: (CJ 385) and completion of Tier I writing requirement~~ P: C.J 385 R:
Open to juniors or seniors in the School of Criminal Justice.
Advanced topics in private security. Planning and administering. Organizing and staffing.
Human relations. Management styles. Media relations.
~~Effective Spring 2014~~ Effective Spring 2019
- HST 281 Atlantic Slavery
Spring of even years. 3(3-0)
NEW Slavery and human trafficking in western Europe, Africa and the Americas from the
fifteenth century to the present.
Effective Fall 2019
- HST 336 ~~Contemporary Europe, 1870 to Present~~
Europe from Bismarck to Brexit
~~Fall of every year.~~ Spring of every year. 3(3-0)
~~Politics, society, culture, and economy from 1870 to present including the world wars,~~
~~revolutions, and social and political change in twentieth century.~~ Politics, society,
economy, and culture of Europe and Europe's relations with the wider world, from 1870 to
the present. Focus on histories of violence and conflict and struggles for community,
including world wars, revolutions, colonialism, decolonization, and European integration.
~~Effective Fall 2014~~ Effective Spring 2019
- HST 369 ~~Japan to 1800~~ Japan in the Age of the Samurai
Spring of every year. 3(3-0)
~~Political, social, and cultural developments. Growth and transformation of courtier,~~
~~samurai, and commoner society. Japan before 1800. Exploration of political, religious,~~
~~and literary developments including Buddhism and Shinto, foreign relations and state~~
~~formation, poetry and theater. Evolution of women's roles, samurai and warfare, and early~~
~~modern popular culture~~
~~Effective Spring 2019~~ Effective Fall 2019
- HST 370 ~~Japan since 1800~~ Modern Japan: History, Culture, and Society
Fall of every year. 3(3-0)
~~Transformation of Japan's political structure, society, and economy from the period of~~
~~centralized feudalism to Japan's emergence as a post-industrial society since World War~~
~~II.~~ Japan since 1800. Transformation of Japan's political structure, society, and economy
from a feudalist country to a modern and militant empire, then from a war-torn and
destitute nation to an economic giant with a flourishing culture in the contemporary world
~~Effective Fall 2017~~ Effective Fall 2019
- HDFS 994 ~~Sex Therapy~~ Advanced Evidence-Based Couple Therapy
Spring of odd years. 3(3-0) ~~RB: HDFS 445~~ R: Open to graduate students in the Department of
Human Development and Family Studies. Approval of department.
~~Major models of sex therapy utilized in couple and family therapy. Etiology and treatment~~
~~of major sexual dysfunctions.~~ In-depth study of evidence-based couple therapy. Four
approaches to couples with a robust body of evidence supporting their effectiveness:
cognitive-behavioral couple therapy, alcohol-focused behavioral couple therapy,
integrative behavioral couple therapy, and emotionally focused therapy for couples.
SA: FCE 994
~~Effective Fall 2014~~ Effective Spring 2019
- PLS 201 Introduction to Methods of Political Analysis
Fall of every year. Spring of every year. Summer of every year. 4(4-0) ~~P: PLS 200 or MC 204~~
Philosophy of social science. Principles of research design, measurement, hypothesis
testing, measures of association, cross tabulations, and regression analysis.
~~Effective Fall 2014~~ Effective Fall 2018

PLS 202	Introduction to Data Analytics and the Social Sciences Fall of every year. Spring of every year. 3(3-0)
NEW	Approaches to data analysis in the social sciences. Computational tools for data collection and visualization across various digital sources, including text or social media. Effective Fall 2018
SW 845	Administrative Skills in Social Work Fall of every year. Spring of every year. Summer of every year. 3(3-0) P: SW 810 or SW 812B R: Open to graduate students in the School of Social Work or approval of school. <u>R: Open to graduate students in the Master of Social Work in Clinical Social Work or in the Master of Social Work in Clinical Social Work or approval of school.</u> <u>Not open to students with credit in SW 865.</u> Knowledge and skills for social work practice in an organizational context. Effective Summer 2018 <u>Effective Fall 2019</u>
SOC 350	Society and Mental Health (D) (I) Fall of every year. Spring of every year. 3(3-0) P: Completion of Tier I Writing Requirement
NEW	Social determinants of mental health and mental illness. International and cross-cultural comparison of mental health and mental illness. Effective Fall 2018

OFFICE OF THE PROVOST

LWG 849C	Special Topics in Comparative Law On Demand. 1 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course.
NEW	Special topics in comparative law <u>Request the use of the Pass-No Grade (P-N) system.</u> Effective Spring 2019