

Subcommittee B – Agenda

1:30 p.m. via Zoom

Part I – New Academic Programs and Program Changes

College of Social Science

1) Minor in African Studies

Request to change the requirements for the Minor in African Studies in the Department of History.

Under the heading Requirements for the Minor in African Studies make the following changes:

a) In item 2. delete the following courses:

GEO	339	Geography of the Middle East and North Africa	3
HST	201	Historical Methods and Skills	3
HST	360	African History to 1800	3
HST	361	African History since 1800	3
HST	421	Women and Gender in Africa	3
HST	450	Special Topics in African History	3
PLS	422	Seminar in Political Science (W)	4

b) In item 2. add the following courses:

EC	414	Economic Analysis of Sub-Saharan Africa (W)	3
HST	281	Atlantic Slavery	3
HST	363	East Africa in the Twentieth Century	3

c) In item 3. delete the following courses:

MC	395	Cultural Dimensions of Public Affairs	4
RCAH	203	Transcultural Relations through the Ages	4

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d) In item 3. add the following courses:

AFR	102A	Elementary Swahili II	4
AFR	102B	Elementary African Language II	4
AFR	152	Beginning Individualized African Language II	4
ARB	102	Elementary Arabic II	5
PHL	231	Africana Philosophy	3

e) In item 3. remove the following text:

The topic of MC 395 and RCAH 203 must contain specific content pertaining to African studies and be approved by the African Studies advisor.

f) In item 4. remove the following text:

Students are encouraged to take courses in African languages to enhance their understanding of Africa.

Effective Spring 2027.

2) Bachelor of Arts degree in Anthropology

Request to change the requirements for the Bachelor of Arts degree in Anthropology in the Department of Anthropology.

Under the heading Requirements for the Bachelor of Arts Degree in Anthropology make the following changes:

a) Change item 3. a. to the following:

The following course (3 credits):

ANP	489	Anthropology Capstone Course (W)	3
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b) Change item 3. b. to the following:

Three of the Following Courses (9 credits):

ANP	201	Introduction to Cultural Anthropology	3
ANP	203	Introduction to Archaeology	3
ANP	204	Introduction to Medical Anthropology	3

ANP	206	Introduction to Physical Anthropology	3
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Effective Spring 2027.

3) Bachelor of Science degree in Anthropology

Request to change the requirements for the Bachelor of Science degree in Anthropology in the Department of Anthropology.

Under the heading Requirements for the Bachelor of Science Degree in Anthropology make the following changes:

- a) Change item 3. a. to the following:

The following course (3 credits):

ANP	489	Anthropology Capstone Course (W)	3
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- b) Change item 3. b. to the following:

Three of the Following Courses (9 credits):

ANP	201	Introduction to Cultural Anthropology	3
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ANP	203	Introduction to Archaeology	3
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ANP	204	Introduction to Medical Anthropology	3
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ANP	206	Introduction to Physical Anthropology	3
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- c) In item 3.d. and 3.e. add the following note:

NOTE: ANP 441 may be used for topical/analytical course or anthropological methods but not both.

- d) Replace item 3.f. with the following:

Complete 12 additional credits in Anthropology courses, at least 9 credits of which must be at the 300-level or above. ANP 101 or ANP 200 may not be used to fulfill this requirement. Courses used to meet major requirements may not be used to satisfy this requirement.

Effective Spring 2027.

4) Minor in Anthropology

Request to change the requirements for the Minor in Anthropology in the Department of Anthropology.

Under the heading Requirements for the Minor in Anthropology make the following changes:

- a) In item 1. replace the text with:

Three of the following courses (9 credits):

- b) In item 1. add the following course:

ANP	204	Introduction to Medical Anthropology	3
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Effective Spring 2027.

5) Minor in Asian Studies

Request to change the requirements for the Minor in Asian Studies in the Department of History.

Under the heading Requirements for the Minor in Asian Studies make the following changes:

- a) In item 2. add the following courses:

HST	374	South Asia before Colonialism	3
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HST	375	Modern South Asia	3
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Effective Fall 2026.

6) Minor in Defense Studies and Leadership

Request to change the requirements for the Minor in Defense Studies and Leadership in the Department of Anthropology.

Under the heading Requirements for the Minor in Defense Studies and Leadership make the following changes:

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a) Under item 4. add the following courses:

HST	365	The Vietnam War	3
HST	387	The First World War	3
HST	388	World War II: Causes, Conduct and Consequences	3

b) Under item 5. delete the following course:

CJ	473	Comparative Constitutional Law	3
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c) Under item 5. add the following courses:

CJ	433	Law Enforcement Intelligence Operations	3
HRLR	211	Introduction to Organizational Leadership	3
PLS	160	Introduction to International Relations	3
PLS	322	Comparative Legal Systems	3
PLS	346	Middle East Politics	3
PLS	354	Politics of Asia	3

Effective Spring 2027.

Part II – New Courses and Changes

College of Agriculture and Natural Resources

NEW COURSE

CSUS 122 Agriculture, Food, and Natural Resources Education Systems

Fall of every year. Spring of every year. 3(3-0)

Systems of Agriculture, Food, and Natural Resources Education (AFNRE) including experiential learning, leadership, and instructional processes.

Numerical

Effective Spring Semester 2027

CSUS 265 Exploring Environmental and Sustainability Issues and Policy Using Film

~~Spring of every year. Fall of every year.~~ 3(3-0) RB: Completion of Tier I Writing Requirement

Environmental and sustainability issues, themes, and perspectives in feature films and documentaries.

Numerical

SA: ESA 235

Effective Spring Semester 2027

CSUS 301 Community Engagement for Sustainability (W)

Fall of every year. Spring of every year. 3(3-0) P: (CSUS 200) and completion of Tier I writing requirement R: Not open to freshmen.

Application of principles of change theory, citizenship, sustainability, and community engagement at multiple scales. Public and participatory decision making in diverse contexts. Techniques and skills for community engagement. Examination of personal identities as citizens. Leadership and communication challenges in active practice of engagement.

Numerical

DELETE COURSE

Effective Spring Semester 2027

CSUS 322 Leadership for Community Sustainability

~~Fall of every year. Spring of every year. Fall of every year.~~ 3(3-0) P: Completion of Tier I Writing Requirement RB: CSUS 200 or concurrently

Leadership theory, practice, and reflection. Individual and team leadership in the context of community sustainability.

Numerical

SA: ESA 312

Effective Spring Semester 2027

CSUS 418 Community Sustainability Study Abroad

Fall of every year. Spring of every year. Summer of every year. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: CSUS 200 or approval of department R: Approval of department; application required.

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Study and travel experience emphasizing contemporary problems in sustainability in world, national, and local communities.

Numerical

SA: ESA 475

DELETE COURSE

Effective Spring Semester 2027

NEW COURSE

CSUS 450 Sustainability of Planetary Boundaries

Fall of every year. Spring of every year. 3(3-0) R: Not open to sophomores.

Biophysical science of global planetary boundaries and their relation to human activities at household, local, regional, and national scales.

Numerical

Effective Spring Semester 2027

CSUS 464 Environmental and Natural Resource Policy in Michigan

Spring of every year. 3(3-0) ~~Interdepartmental with Environmental Economics and Management~~ P: CSUS 200 or AFRE 265 or approval of department P: CSUS 200 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.

Numerical

SA: ESA 440, RD 440

Effective Spring Semester 2027

CSUS 465 Environmental and Natural Resource Law

~~Fall of every year.~~ Fall of every year. Summer of every year. 3(3-0) ~~Interdepartmental with Environmental Economics and Management, Forestry~~ P: CSUS 200 or AFRE 265 P: CSUS 200 or approval of department 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.

Numerical

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SA: ESA 430, RD 430

Effective Spring Semester 2027

CSUS 477 Nature-based Tourism

~~Spring of every year.~~ Spring of odd years. 3(3-0) P: Completion of Tier I Writing Requirement R: Not open to freshmen.

Nature-based tourism types and differentiations from other forms of tourism. Environmental, social/cultural, and managerial impacts. Examination of applied research in the nature-based tourism field.

Numerical

Effective Spring Semester 2027

College of Law

LAW 524B ~~Securities Regulation I~~ Securities Regulation

~~Spring of every year.~~ On Demand. 2 to 4 credits. P: LAW 500M or concurrently R: ~~Open to students in the MSU College of Law.~~ R: Open to students in the College of Law.

Regulatory requirements applied to public offers of securities and publicly held companies.

Alpha

SA: DCL 428

Effective Fall Semester 2026

LAW 537Y Local Government Policy Lab

On Demand. 0 to 6 credits. P: ~~LAW 580C~~ R: ~~Open to students in the MSU College of Law.~~ R: Open to students in the College of Law.

An opportunity to engage in local government practice, learn nontraditional legal analysis and writing skills, and interact with lawyers and policymakers about issues affecting residents and local administrators across Michigan.

Alpha

Effective Fall Semester 2026

NEW COURSE

LAW 540G Victim-Offender Overlap: Legal Treatment of Victimized Offenders in Domestic/Familial Settings

On Demand. 0 to 6 credits. R: Open to Law students in the College of Law.

This course explores the legal intersection of criminal and family law. It focuses on domestic and sexual violence, and child maltreatment —issues that simultaneously trigger criminal prosecutions and family court interventions regarding parental rights.

Alpha

Effective Fall Semester 2026

LAW 622A Bridging Theory and Practice: Maximizing the Legal Internship

~~Summer of every year. 1 credit.~~ 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. ~~R: Open to Law students in the MSU College of Law.~~ R: Open to Law students in the College of Law.

Maximizing internships by merging workplace skills with academic learning.

~~Pass-Fail~~ Alpha

Effective Spring Semester 2026

College of Social Science

ANP 204 Introduction to Medical Anthropology

~~Summer of every year.~~ Spring of every year. Summer of every year. 3(3-0)

Concepts, methods and theoretical approaches of the field of medical anthropology.

Numerical

Effective Spring Semester 2027

ANP 445 Paleopathology: The Science of Ancient Health and Disease

Fall of even years. 3(3-0) ~~R: Open to juniors or seniors in the College of Social Science.~~ R: Open to juniors or seniors.

Evolutionary, multidisciplinary approach to global health and disease through time.

Numerical

Effective Fall Semester 2026

GEO 103 ~~Introduction to Climate Change Studies~~ Our Climate Future

Spring of every year. 3(3-0) ~~R: Open to students in the Bachelor of Science in Geographic Information Science~~

A geographic exploration of climate change studies, including the introductory science and impacts, as well as possible climate scenarios and solutions.

Numerical

Effective Spring Semester 2027

GEO 113 ~~Introduction to Economic Geography~~ Economic Geography: Production, Consumption, and You

Fall of every year. Spring of every year. 3(3-0)

Spatial distribution of resources, population, enterprise, trade, consumption, and production. Interaction of those distributions at local to global scales.

Numerical

Effective Spring Semester 2027

GEO 116 ~~Introduction to Urban Studies~~ Exploring Cities: An Introduction to Urban Studies

Fall of every year. 3(3-0)

Introduces the interdisciplinary field of urban studies drawing on urban planning, economics, geography, sociology, politics, and the humanities to provide basic concepts for understanding the urbanized world of the twenty-first century. Cities as economic, social, and political systems and ways in which people have thought about cities.

~~Numerical~~ Undergraduate Graded

Effective Spring Semester 2027

GEO 151 ~~Introduction to Human Geography~~ Human Geography: People, Place, and Environment

Fall of every year. Spring of every year. 3(3-0)

Systematic study of spatial patterns and processes that have shaped human use and alteration of the world.

Numerical

Effective Spring Semester 2027

GEO 201 ~~Introduction to Plant Geography~~ Where Plants Grow: Geography, Climate, and Ecology

Spring of even years. 3(3-0)

Geographic distribution and characteristics of plants throughout the world; relationships between biomes and aspects of the physical environment (climate, soils, landforms, disturbance); plant ecology; human impacts on vegetation; optional field trip on campus.

Numerical

Effective Spring Semester 2027

GEO 203 ~~Introduction to Meteorology~~ Meteorology: The Science of Weather

Fall of every year. 3(3-0)

Fundamentals of weather and climate. Energy balance, water balance, horizontal motion, cyclones, severe weather, and climate change.

Numerical

Effective Spring Semester 2027

GEO 204 ~~World Regional Geography~~ Global Regions: Culture, Place, and Change

Fall of every year. 3(3-0)

Economic, political, cultural, environmental, and technological processes and conditions that explain the diversity of world regions.

Numerical

Effective Spring Semester 2027

GEO 206 ~~Physical Geography~~ Earth's Physical Environment

Fall of every year. Spring of every year. 3(3-0)

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Geographic and functional interrelationships within the physical environment: Earth-sun relationships, weather, climate, soils, vegetation and landforms (terrain characteristics).

Numerical

Effective Spring Semester 2027

GEO 206L ~~Physical Geography Laboratory~~ Earth's Physical Environment Laboratory

Fall of every year. 2(0-2) P: GEO 113 or GEO 151 or GEO 203 or GEO 204 or (GEO 206 or concurrently) or GEO 208 or GEO 211 or GEO 215 or GEO 221

Geographic aspects of weather, climate, soil, vegetation, and terrain. Interpretation and application of maps and remotely sensed imagery.

Numerical

Effective Spring Semester 2027

GEO 208 ~~Physical Geography of the National Parks~~ Wild Borders: Geography of the National Parks of the U.S. and Canada

On Demand. 2(2-0)

Physical features such as geology, landforms, biota, and waters of United States and Canadian national parks, forests, seashores and lakeshores. Emphasis on formation and distribution.

Numerical

Effective Spring Semester 2027

GEO 211 Environmental Policy and Practice

Spring of every year. 3(3-0)

Systematic study of environmental policy and resource management practices in the United States and the broader global context, emphasizing geographical and other social sciences perspectives.

Numerical

Effective Spring Semester 2027

GEO 214 ~~Geography of Drugs~~ High Stakes: The Global Geography of Drugs

Fall of even years. 3(3-0)

Physical, ecological, and human geographies of drugs, drug crops, pharmaceuticals, alcohol, and their diffusions. Cultural geographies and geopolitical implications of drugs' consumption, trade, and regulation and prohibition.

~~Numerical Undergraduate Graded~~

Effective Spring Semester 2027

GEO 215 ~~Sports Geography~~ Sports Geography: Serving the Global Playing Field

Fall of odd years. 3(3-0)

Geographical variables that influence the location, character, and spread of sports at the national and global scale. Human cultures and diffusion. Themes associated with the geography of sports. Origin and spread of collegiate, professional, international, and Olympic sports

Numerical

Effective Spring Semester 2027

GEO 221 ~~Introduction to Geographic Information~~ Fundamentals of Geospatial Technologies and Intelligence

Fall of every year. Spring of every year. 3(3-0)

Principles and methods of spatial data collection, handling, analysis, and display. Introduction to remote sensing, geographic information systems, and cartography.

Numerical

Effective Spring Semester 2027

GEO 221L ~~Introduction to Geographic Information Laboratory~~ Fundamentals of Geospatial Technologies and Intelligence Laboratory

Fall of every year. Spring of every year. 1(0-2) P: GEO 221 or concurrently RB: Basic computer and math skills

Basic skills for working with Geographic Information Systems, remotely sensed imagery, design of maps, geospatial tools and technologies for data analysis and problem-solving.

Numerical

Effective Spring Semester 2027

GEO 235 Geography of Environment and Health

Spring of every year. 3(3-0)

Geographic patterns of global health and environmental inequalities; the built, physical and social environment; urban design; infectious and chronic diseases.

Numerical

Effective Spring Semester 2027

GEO 286 ~~Undergraduate Research in Geography~~ Spatial Investigations: Experiential Research in Geography

On Demand. 3(3-0)

Supervised research on a topic or topics determined by the instructor. Applications of geographic tools and theory.

Numerical

Effective Spring Semester 2027

GEO 302 ~~Climates of the World~~ Regional Climates: Mapping the World's Climate Systems

Fall of odd years. 3(3-0) P: ((GEO 103 or GEO 203 or GEO 206 or GEO 303) or approval of department) RB: ~~GEO 103 or GEO 203 or GEO 206 or GEO 303~~

Regional climates and underlying atmospheric circulation patterns. Climate classification, physical climatic processes, spatial and temporal aspects of climate, climate changes.

Sources and use of climate data.

Numerical

Effective Spring Semester 2027

GEO 303 ~~Severe and Hazardous Weather~~ Wicked Weather and Its Hazards

Spring of even years. 3(3-0) P: GEO 103 or GEO 203 or GEO 206 or GEO 302 or approval of department

Extratropical cyclones, freezing precipitation and ice storms, lake effect snowstorms, cold waves, blizzards, thunderstorms, tornadoes, downbursts, tropical cyclones, floods, drought, and heat waves.

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Numerical

Effective Spring Semester 2027

GEO 306 ~~Environmental Geomorphology~~ Environmental Geomorphology: Forces that Shape the Planet

Spring of even years. 3(3-0) ~~Interdepartmental with Geological Sciences~~ P: SOIL 210 or GEO 206 or GEO 333 or GLG 200 or GLG 201 or GLG 304 or ISP 203A

Relationships of running water, weathering, gravity, ice, waves, wind, and biota (including humans) to terrain and soils. Evolution of landscapes. Classical and modern interpretations.

Numerical

Effective Spring Semester 2027

GEO 324 Remote Sensing of the Environment

Fall of every year. 4(2-4) P: GEO 221

Features and interpretation methods of remotely-sensed imagery, especially black-and-white and color infrared airphotos. Basic features of radar, thermal, and multispectral imagery. Interpretation for agriculture, archaeology, fisheries, forestry, geography, landscape architecture, planning, and wildlife management.

~~Numerical Undergraduate Graded~~

~~SA: GEO 224~~

Effective Spring Semester 2027

GEO 325 ~~Geographic Information Systems~~ GIScience: Geospatial Methods and Applications

Fall of every year. 3(2-2) ~~P: GEO 221 and GEO 221L~~ P: (GEO 221 and GEO 221L)

Technical and theoretical issues in the design, implementation, and use of geographic information systems for research and applications.

Numerical

Effective Spring Semester 2027

GEO 326 ~~Cartographic Design and Production~~ Geospatial Visualization: The Art of Storytelling with Map Design

Fall of every year. 4(2-4) P: GEO 221 and GEO 221L

Map design, layout, and usability. Typography and color theory. Techniques of map production, print and digital display.

~~Numerical Undergraduate Graded~~

~~SA: GEO 423~~

Effective Spring Semester 2027

NEW COURSE

GEO 329 Collection and Analysis of Drone Imagery

Fall of even years. 3(2-2) P: GEO 324 or approval of department

Multi-platform, sensor data collection, pre-processing and analysis across differing subfields; fieldwork and analysis. Platforms: multiple types of quadcopters, vertical takeoff and landing (VTOL) systems; sensors to be utilized: multispectral, hyperspectral, thermal, red-edge, lidar.

~~Numerical Undergraduate Graded~~

Effective Spring Semester 2027

GEO 363 ~~Introduction to Quantitative Methods for Geographers~~ Geospatial Data Science and Analytics

Fall of every year. 3(3-0) ~~RB: Completion of University mathematics requirement.~~

Quantitative techniques in the analysis and classification of spatial data.

~~Numerical Undergraduate Graded~~

~~SA: GEO 463~~

Effective Spring Semester 2027

GEO 402 ~~Agricultural Climatology~~ Agricultural Climatology: The Climate-Crop Connection

Fall of even years. 3(3-0) ~~Interdepartmental with Biosystems Engineering~~ P: (LB 117 or concurrently) or (LB 118 or concurrently) or MTH 103 or MTH 103B or (MTH 116 or concurrently) or (MTH 124 or concurrently) or (MTH 132 or concurrently) or (MTH 152H or

~~concurrently) or approval of department P: ((LB 117 or concurrently) or (LB 118 or concurrently) or MTH 103 or MTH 103B or (MTH 116 or concurrently) or (MTH 124 or concurrently) or (MTH 132 or concurrently) or (MTH 152H or concurrently)) AND ((GEO 103 and GEO 203 and GEO 206 and GEO 302 and GEO 303) or approval of department) RB: GEO 103 or GEO 203 or GEO 206 or GEO 302 or GEO 303~~

Relationships between climate and agriculture in resource assessment, water budget analysis, meteorological hazards, pests, crop-yield modeling, and impacts of global climate change.

Numerical Undergraduate Graded

Effective Spring Semester 2027

GEO 403 Dynamic Meteorology (W)

Spring of odd years. 3(3-0) ~~P: (MTH 234 and GEO 203) and completion of Tier I writing requirement~~ P: ((MTH 234 and GEO 203) AND completion of Tier I writing requirement) AND (GEO 405 or approval of department) RB: ~~GEO 405~~

Principles of fluid dynamics and their application to the atmosphere.

Numerical

Effective Spring Semester 2027

GEO 405 ~~Weather and Climate Forecasting~~ Weather Forecasting

Spring of even years. 4(3-2) P: (GEO 103 or GEO 203 or GEO 206 or GEO 302 or GEO 303 or approval of department) and ((LB 117 or concurrently) or (LB 118 or concurrently) or MTH 103 or MTH 103B or (MTH 116 or concurrently) or (MTH 124 or concurrently) or (MTH 132 or concurrently) or (MTH 152H or concurrently) or approval of department)

Physical laws, theories, and principles of mass, energy, and motion of the atmosphere.

Laboratory sessions include analysis of current observations, numerical models, and other forecast products.

Numerical

Effective Spring Semester 2027

GEO 406 Geomorphology of River and Coastal Systems

Spring of odd years. 3(3-0) ~~Interdepartmental with Geological Sciences~~ P: ~~((GEO 206 or GEO 306 or GLG 201 or GLG 431) or approval of department)~~ RB: ~~GEO 206 or GEO 306 or GLG 201 or GLG 431~~ R: Open to sophomores or juniors or seniors or graduate students.

Topics associated with the geomorphology of coastal and river systems. Processes and responses of fluvial and coastal systems to natural and anthropogenic drivers (e.g., development, sea level rise, climate change). Emphasis on field methods, data analysis, and coastal and stream management applications. Optional class projects using data collected in the field.

Numerical

~~SA: GEO 411~~

Effective Spring Semester 2027

GEO 407 Regional Geomorphology of the United States

Spring of odd years. 3(3-0) P: ~~((GEO 306 or GLG 201 or GLG 412 or ISP 203A1 or ISP 203B) or approval of department)~~ RB: ~~GEO 306 or GLG 201 or GLG 412 or ISP 203A or ISP 203B~~

Geomorphic characteristics of physiographic regions of the United States.

Numerical

Effective Spring Semester 2027

GEO 409 ~~Global Climate Change and Variability~~ Global Climate Trends and Variability

Fall of every year. 3(3-0) P: GEO 103 or GEO 203 or GEO 206 or GEO 302 or GEO 303 or approval of department

Analysis of climate change and variability at various time and space scales. Climate systems, paleoclimatology, global warming, climate models, and climate impact assessment.

Numerical

Effective Spring Semester 2027

GEO 410 ~~Geography of Food and Agriculture~~ Mapping the Global Food System: The Geography of What We Eat

Fall of odd years. 3(3-0) P: ~~((GEO 113 or GEO 151 or GEO 204 or GEO 206) or approval of department)~~ RB: ~~GEO 113 or GEO 151 or GEO 204 or GEO 206~~

Spatial patterns of contemporary global agriculture and food systems. Human-environment geography of select agricultural practices and food systems. Effects of agricultural practices on natural and human resources.

Numerical

Effective Spring Semester 2027

GEO 413 ~~Urban Geography~~ Urban Geography: A Global Perspective

Spring of every year. 3(3-0)

Theories and models of urban spatial form. Underlying structures and processes. Socio-spatial dimensions of modern urbanism. Differentiation and locational conflict in residential, commercial, and industrial space.

Numerical

Effective Spring Semester 2027

GEO 414 Transportation Systems and Sustainable Cities

Spring of odd years. 3(3-0) ~~Interdepartmental with Civil Engineering, Supply Chain Management P: (GEO 113 or approval of department) RB: GEO 113~~

Spatial principles of transportation. Theories of interaction, network structures, and location-allocation models. Role of transport and transport planning.

Numerical

Effective Spring Semester 2027

NEW COURSE

GEO 416 ~~The World System of Cities (W)~~ Cities of the World (W)

Spring of every year. 3(3-0) P: Completion of Tier I Writing Requirement

Global economic restructuring and its social, economic, and political impacts on the world system of cities.

Numerical

Effective Spring Semester 2027

GEO 424 ~~Advanced Remote Sensing~~ Advanced Remote Sensing of the Environment

Spring of every year. 4(3-2) P: GEO 324

Interaction of solar radiation with the atmosphere, lithosphere, hydrosphere, and biosphere. Introductory digital image processing. Earth-resources satellite sensors, data products, and applications. Radar and thermal remote sensing.

Numerical

Effective Spring Semester 2027

GEO 425 ~~Problems in Geographic Information Science (W)~~ Advanced Geospatial Problem Solving (W)

Spring of every year. 3(2-2) P: (GEO 325 or GEO 802) and completion of Tier I writing requirement

Advanced theoretical and technical issues in geographic information science utilizing a problems oriented approach. Development and implementation of geographic information science solutions and formal documentation of work.

Numerical

Effective Spring Semester 2027

GEO 429 ~~Programming with Spatial Data~~ Advanced Geospatial Data Science

Spring of every year. 3(3-0) ~~P: GEO 221 or GEO 325 or GEO 425 or GEO 802 or approval of department~~ P: (GEO 221 or GEO 325 or GEO 425 or GEO 802) AND ((CMSE 201 or CSE 231 or FOR 372 or PLS 202) or approval of department) ~~RB: CMSE 201 or CSE 231 or FOR 372 or PLS 202~~

Applications of computer programming, such as Python, to address geographic information problems. Integration of digital spatial data, geographic information systems, spatial analysis, and expert systems.

Numerical

Effective Spring Semester 2027

GEO 435 Geography of Health and Disease

Fall of every year. 3(3-0)

Spatio-environmental concepts and techniques applied to health problems. Disease transmission cycles, community nutrition, and health-care planning.

Numerical

Effective Spring Semester 2027

GEO 436 ~~Spatial Analysis of Populations~~ Population and Place: Geospatial Analysis

Spring of odd years. 3(3-0)

Concepts and methods to measure and evaluate geo-spatial and temporal trends in populations and their components, such as natality, mortality, migration, and characteristics at different geographic scales. Sources of spatial population data. Visualization and analysis of data in a geographical information system.

Numerical

Effective Spring Semester 2027

GEO 440 ~~Geopolitics~~ Global Geopolitics: Empires Identities and Place

Spring of even years. 3(3-0)

Political geographies of origins and conduct of nation-states. Identity-place dynamics. Colonialism and imperialism. Geopolitics and geopolitical ideas. Resource and environmental politics. Resistance and terrorism.

Numerical

Effective Spring Semester 2027

GEO 441 Power, Space, and Culture

Fall of even years. 3(3-0)

Survey of the geographic study of world cultures, cultural ecologies, cultural landscapes, and cultural influences on societies' patterns of spatial organization.

Numerical

Effective Spring Semester 2027

GEO 453 Metropolitan Environments: Urban Forms and Land Uses

Spring of odd years. 3(3-0)

Land use change, the physical fabric of the city, and the growth of metropolitan centers in a global comparative context. Issues associated with urbanization and current urban

pressures, including in the resulting metropolitan form and function.

Numerical

Effective Spring Semester 2027

GEO 480 ~~Undergraduate Seminar in Geography (W)~~ Seminar in Geography (W)

Fall of every year. 3(3-0) P: Completion of Tier I Writing Requirement R: Open to juniors or seniors in the Department of Geography, Environment, and Spatial Sciences.

Professional development, history, philosophy, and methodology in the geographic discipline.

Numerical

Effective Spring Semester 2027

GEO 490 ~~Independent Study~~ Independent Study in Geography

Fall of every year. Spring of every year. Summer of every year. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of department.

Supervised individual study in an area supplementary to regular courses.

Numerical

Effective Spring Semester 2027

GEO 492 ~~Geographic Research Problems~~ Topics in Geography

Fall of every year. Spring of every year. Summer of every year. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Not open to freshmen or sophomores. Approval of department.

Supervised original research on selected aspects of geography.

Numerical

Effective Spring Semester 2027

GEO 498 Internship in Geography

Fall of every year. Spring of every year. Summer of every year. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course.

Individual experience in geography in an approved organization.

Pass-No Grade (P-N)

Effective Spring Semester 2027

GEO 802 ~~Geospatial Technology~~ Foundations of Geospatial Science

Fall of every year. 3(3-0) ~~RB: Familiarity with coordinate systems.~~

Comprehensive introduction to geotechnologies. Concepts and theories of remote sensing to include image interpretation and processing, Global Positioning Systems, spatial data structures, and geographic information systems.

Numerical

Effective Spring Semester 2027

GEO 813 ~~Seminar in Urban and Economic Geography~~ Advanced Seminar in Geography

Spring of every year. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. P: (GEO 413 and GEO 414) ~~RB: Two of GEO 413, GEO 414, GEO 415, GEO 418.~~

Review of research on selected topics in urban and economic geography.

Numerical

Effective Spring Semester 2027

GEO 816 ~~The World System of Cities~~ Cities of the World

Fall of every year. 3(3-0) ~~Interdepartmental with Global Urban Studies Program R: Open to graduate students.~~

Modern global economic restructuring. Social, economic, and political impacts on world system of cities.

~~Numerical~~ Graduate Graded

Effective Spring Semester 2027

GEO 826 Geographic Object-Based Image Analysis

Spring of every year. 3(3-0) ~~P: GEO 221 or GEO 324 or approval of department~~ P: (GEO 221 or GEO 324) AND (GEO 424 or approval of department) ~~RB: GEO 424~~

Remote sensing data acquisition, analytical workflow design, and outcome communication. Vegetation, urban, and agricultural applications. Mathematical and visual approaches to data extraction.

Numerical

Effective Spring Semester 2027

GEO 827 ~~Theory and Practice of Terrestrial Remote Sensing~~ Terrestrial Remote Sensing-Theory

Fall of every year. 3(3-0) P: ~~((GEO 324 and GEO 424) or approval of department)~~ RB: ~~GEO 324 or GEO 424~~

Theory, algorithms, and computational approaches to generate and assess derived satellite products for long-term Earth system monitoring, with an emphasis on estimating biophysical and geophysical land surface variables.

~~Numerical~~ Graduate Graded

~~Request the use of ET-Extension to postpone grading.~~

~~The work for the course must be completed and the final grade reported within 1 semester after the end of the semester of enrollment.~~

Effective Spring Semester 2027

GEO 829 Collection and Analysis of Drone Imagery

Fall of even years. 3(2-2) P: GEO 324 or approval of department ~~RB: Advanced level remote sensing coursework.~~

Multi-platform, sensor data collection, pre-processing and analysis across differing subfields; fieldwork and analysis. Platforms: multiple types of quadcopters, vertical takeoff and landing (VTOL) systems; sensors to be utilized :multispectral, hyperspectral, thermal, red-edge, lidar.

Numerical

Effective Spring Semester 2027

GEO 837 ~~Applications of Terrestrial Remote Sensing~~ Terrestrial Remote Sensing-Applications

Spring of odd years. 3(3-0) P: GEO 424 or approval of department

Remote sensing for environmental and regional land cover change research. Advanced image interpretation; applications with emphasis on independent research projects.

Numerical

Effective Spring Semester 2027

GEO 865 Advanced Quantitative Methods in Geography

Spring of every year. 4(4-0) P: (GEO 363 or approval of department) ~~RB: GEO 363~~

Statistical and mathematical approaches. Multiple regression, principal components and factor analysis, discriminant analysis. Related taxonomic methods.

Numerical

Effective Spring Semester 2027

GEO 866 ~~Spatial Data Analysis~~ Statistical Foundations of Geospatial Data Science

Fall of every year. 4(3-2) ~~Interdepartmental with Statistics and Probability~~ P: ((GEO 363 or STT 421 or STT 430) or approval of department) ~~RB: (GEO 363 or STT 421 or STT 430) or equivalent quantitative methods courses.~~

Theory and techniques for statistical analysis of point patterns, spatially continuous data, and data in spatial zones.

Numerical

~~SA: GEO 466~~

Effective Spring Semester 2027

GEO 886 ~~Research Design in Geography~~ Geographic Ideas and Research Design

Spring of every year. 3(3-0) R: Approval of department.

Research and writing in geography. Identification of geographic problems and their relative importance. Structuring and stating hypotheses. Data acquisition and tests for validity.

Numerical

Effective Spring Semester 2027

GEO 890 Advanced Readings in Geography

Fall of every year. Spring of every year. Summer of every year. 1 to 8 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of department.

Advanced independent readings.

Numerical

Effective Spring Semester 2027

GEO 892 Advanced Research in Geography

Fall of every year. Spring of every year. Summer of every year. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course.

Advanced independent research.

Numerical

Effective Spring Semester 2027

HST 374 South Asia before Colonialism

Fall of every year. 3(3-0)

Developments between 3000BCE and 1750CE in the areas which now comprise India, Pakistan, and Bangladesh.

Numerical

Effective Fall Semester 2026

HST 375 Modern South Asia

Spring of every year. 3(3-0)

South Asia from colonialism to independence and after. Focus on the diverse histories and struggles of marginalized groups and the similarities and differences among the experiences of people in India, Pakistan, Bangladesh, Sri Lanka, Nepal and other South Asian countries.

Numerical

Effective Spring Semester 2027

HDFS 930 Applied Measurement in the Social Sciences

~~Fall of odd years.~~ Spring of even years. 3(3-0) P: HDFS 880 and HDFS 881 RB: Graduate-level course in applied statistics including regression. R: Approval of department.

Survey of contemporary methods to construct measures and examine validity, with a focus on internal structure validity, in the applied measurement of latent traits in the social sciences.

Numerical

Effective Spring Semester 2026

HDFS 965 Applied Multi-Level Modeling in the Social Sciences

~~Spring of even years.~~ Fall of odd years. 3(3-0) P: HDFS 880 and HDFS 881 and HDFS 960 R: Approval of department.

Introduction to the theory and application of hierarchical linear modeling to clustered data, including the applied scientific settings giving rise to clustered data, methods for analysis, and critical review of applications.

Numerical

Effective Spring Semester 2026

SW 891 Special Topics in Graduate Social Work

Spring of every year. Summer of every year. 1 to 4 credits. ~~A student may earn a maximum of 8 credits in all enrollments for this course.~~ A student may earn a maximum of 16 credits in all enrollments for this course. R: Open to graduate students in the School of Social Work or approval of school.

Topics in social welfare, social policy, service delivery, research, theory, and practice.

Numerical

Effective Summer Semester 2026

Vice Provost for Undergraduate Education

NEW COURSE

UGS 295 VIP: Exploration of Research

Michigan State University

University Committee on Curriculum – September 24, 2026

Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. A student may earn a maximum of 4 credits in all enrollments for this course. R: Open to Undergraduate students. Approval of department. A student may earn a maximum of 12 credits

Exploration of research and creative scholarship topic within a faculty-led team project.

Undergraduate Graded

Effective Fall Semester 2026

NEW COURSE

UGS 395 VIP: Application of Research

Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. A student may earn a maximum of 4 credits in all enrollments for this course. P: (UGS 295 or approval of department) R: Open to Undergraduate students. Approval of department. A student may earn a maximum of 12 credits UGS 295

Application of research and creative scholarship topic within a faculty-led team project.

Undergraduate Graded

Effective Fall Semester 2026

NEW COURSE

UGS 495 VIP: Leadership in Research

Fall of every year. Spring of every year. Summer of every year. 1 to 3 credits. A student may earn a maximum of 4 credits in all enrollments for this course. P: (UGS 395 or approval of department) R: Approval of department. A student may earn a maximum of 12 credits UGS 295||UGS 395

Leadership in research and creative scholarship topic within a faculty-led team project.

Undergraduate Graded

Effective Fall Semester 2026