

Compiled for 2018-2020 Academic Year

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Courses indicated by active professors for the 2018-2020 year.

Courses that include Sustainability Content at Black Hills State University

| Title | Department | Level | Description |
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| AIS 422 - Issues in Contemporary Indian Life | American Indian Studies | UG | An analysis of current American Indian life including inquiry into government policies, economics, and social adjustment to non-Indian society, and cultural changes as these relate to Indian citizens on and off the reservation. |
| AIS 490 – Seminar | American Indian Studies | UG | A highly focused, and topical course. The format includes student presentations and discussions of reports based on literature, practices, problems, and research. Seminars may be conducted over electronic media such as internet and are at the upper division or graduate levels. Enrollment is generally limited to fewer than 20 students. |
| ANTH 210 - Cultural Anthropology | Anthropology | UG | Introduces the nature of human culture as an adaptive ecological and evolutionary system, emphasizing basic anthropological concepts, principles and problems. Draws data from both traditional and industrial cultures to cover such concepts as values & beliefs, social organization, economic and political order, science, technology, and aesthetic expression. |
| BADM 292 - Topics | Business | UG | Includes current topics, advanced topics and special topics. A course devoted to a particular issue in a specified field. Course content is not wholly included in the regular curriculum. Guest artists or experts may serve as instructors. Enrollments are usually of 10 or fewer students with significant one-on-one student/teacher involvement. |
| BADM 320 - Quantitative Decision Analysis | Business | UG | Markovation of quantitative techniques to business situations. Among the techniques included are: rate-of-change analysis of revenue and cost functions, linear programming, transportation algorithm, PERT/CPM analysis, Markov Chain, Monte Carlo simulation, exponential smoothing, time- series trend analysis and queuing theory. |
| BADM 360 - Organization and Management | | UG | This course is a study of management, including the planning, direction, controlling and coordinating of the various activities involved in operating a business enterprise. |

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| BADM 457 - Business Ethics | | UG | This course is a study of the ethical implications of managerial decisions. Topics covered include the responsibility of the organization to the individual and society, the role of the individual within the organization, and ethical systems for American business. The course provides an examination and assessment of current American business practices. |
| BIOL 101 - Biology Survey I | | UG | Study of the nature, diversity, and classification of life, ecology, cells and cell cycles, Mendelian and modern genetics evolution and evolution theory. Intended for those not majoring in biology. |
| BIOL 101L - Biology Survey I Lab | | UG | Laboratory experience that accompanies BIOL 101. |
| BIOL 103 - Biology Survey II | | UG | Study of energetics; plant growth; development and reproduction; animal structure and function. Intended for those not majoring in biology. |
| BIOL 103L - Biology Survey II Lab | | UG | Laboratory experience that accompanies BIOL 103. |
| BIOL 153 - General Biology II | | UG | A continuation of BIOL 151, the introductory course for those majoring in biology and microbiology. Presents the concepts of animal and plant structure and function, energetics, and reproduction. |
| BIOL 153L - General Biology II Lab | | UG | Laboratory experience that accompanies BIOL 153. |
| BIOL 231 - General Microbiology | | UG | Principles of basic and applied microbiology. |
| BIOL 231L - General Microbiology Lab | | UG | Laboratory experience that accompanies BIOL 231. |
| BIOL 301 - Plant Systematics | | UG | Principles of phylogeny, classification, nomenclature, evolution; demonstrations, field study and laboratory practice in collection, preserving, and identifying plants. |
| BIOL 301L - Plant Systematics Lab | | UG | Laboratory experience that accompanies BIOL 301. |
| BIOL 311 - Principles of Ecology | | UG | Basic principles of ecology including the sub disciplines of physiological ecology, population ecology, community ecology, evolutionary ecology, and ecosystems ecology from both a theoretical and applied aspect. |
| BIOL 311L - Principles of Ecology Lab | | UG | Laboratory experience that accompanies BIOL 311. |
| BIOL 321 - Conservation of Natural Resources | | UG | This is a study of the history of the exploitation of our renewable and nonrenewable resources, and |

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| | | | the contemporary practices used in their conservation. |
| BIOL 355 – Mammalogy | | UG | Identification of game, fur bearing, and small mammals; taxonomy of these groups, life histories and habits, preparation of study skins and skeletons; special reference to those occurring in Northern Great Plains area. |
| BIOL 355L - Mammalogy | | UG | Laboratory experience that accompanies BIOL 355. |
| BIOL 371 – Genetics | | UG | Principles governing the nature, transmission and function of hereditary material with application to plants, animals, humans, and microorganisms. |
| BIOL 371L - Genetics Lab | | UG | Laboratory experience that accompanies BIOL 371. |
| BIOL 434 - Herpetology | | UG | This course is a study of reptiles and amphibians including their life history, ecology, reproductive habits, physiology, systematics, and world-wide distribution |
| BIOL 434L - Herpetology Laboratory | | UG | This course complements BIOL 434, and will emphasize identification of, and field experiences with, the reptiles and amphibians of western South Dakota. |
| BIOL 490 - Seminar | | UG | A highly focused, and topical course. The format includes student presentations and discussions of reports based on literature, practices, problems, and research. Seminars may be conducted over electronic media such as internet and are at the upper division or graduate levels. Enrollment is generally limited to fewer than 20 students. |
| CHEM 106 - Chemistry Survey | | UG | A one-semester survey of chemistry. Not intended for those needing an extensive chemistry background. Introduction to the properties of matter, solutions, and acid-base concepts. |
| CHEM 355 - Field Environmental Chemistry | | UG | Assessment of water quality and the origin of pollutants in a watershed are investigated in this interdisciplinary course. Geology and land use are examined and used as the basis for student designed sampling schemes. Biological, chemical, and physical methods are employed to characterize samples both in the field and in the laboratory. Results and conclusions of student projects are presented orally and in written form. |
| CHEM 355L - Field Environmental Chemistry Laboratory | | UG | Laboratory designed to accompany CHEM 355. |

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| CHEM 452 - Inorganic Chemistry | | UG | Theoretical and periodic aspects of inorganic chemistry. |
| CHEM 452L - Inorganic Chemistry Lab | | UG | Synthesis and characterization of inorganic compounds. |
| ECON 201 - Principles of Microeconomics | | UG | Principles of microeconomics studies basic economic concepts as they relate to consumer, worker, and business decisions. Emphasis is given to satisfaction maximizing behavior by individuals and profit maximization by firms. Market structures are thoroughly analyzed regarding their effect on price, output, and competitiveness. |
| ECON 202 - Principles of Macroeconomics | | UG | Principles of macroeconomics considers the economy as a whole, how its sectors interact, and how monetary and fiscal policy can influence output, inflation, interest rates, unemployment, poverty, debt, and other factors |
| ECON 410 - Economic Growth & Development | | UG | Economic Growth and Development surveys the major economic and non-economic problems of developing nations. Consideration is given to national and international policies for economic development |
| ECON 441 - International Trade | | UG | International trade studies the basis of international trade, investment, migration, and regional integration, and considers contemporary international economic problems and policies. |
| ELED 303 - Earth and Physical Science for Elem Teachers | | UG | A non-methods course that presents major concepts and theories in astronomy, geology, meteorology, chemistry, and physics. Scientific concepts and theories for elementary teachers working with K-8 students. |
| GEOG 101 - Introduction to Geography | | UG | The course presents a broad, introductory overview of geographic concepts, themes, and elements designed to help students better understand and analyze the world from a geographic perspective. It provides a background to Earth's physical and human elements and systems. It also emphasizes the unique quality of world regions, and the spatial interaction of people, elements, and regions, as well as major global and regional problems and prospects. |
| GEOG 210 - World Regional Geography | | UG | A survey of the Earth from a broad global framework through the differentiation of the world in terms of both natural and human environmental features and characteristics on a regional basis. |

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| GEOL 321 - Conservation of Natural Resources | | UG | This is a study of the history of the exploitation of our renewable and nonrenewable resources, and the contemporary practices used in their conservation. |
| GEOL 350 - Environmental Geology | | UG | This course will allow students to examine how human activities influence the earth's physical environment. Students will apply a basic understanding of geological principles to better understand world environmental problems. Field trips to environmentally sensitive areas will be scheduled. |
| HIST 319 - World Environmental History | | UG | Examines the history of interactions between human cultures and the natural world, from early humans to the present day. |
| HIST 379 - Environmental History of the U.S. | | UG | Examines the relationship between the natural environment and the historical movements of humans by tracing U.S. environmental changes, beginning with the activities of the Native American peoples through the Euro-American presence to the Cold War era. |
| OE 292 – Topics | | UG | Includes Current Topics, Advanced Topics, and Special Topics. A course devoted to a particular issue in a specified field. Course content is not wholly included in the regular curriculum. Guest artists or experts may serve as instructors. Enrollments are usually of 10 or fewer students with significant one-on-one student-teacher involvement |
| OE 310 - Outdoor Education: Theory & Practice | | UG | This course provides training in several nationally known environmental and outdoor education programs. The use of these programs in designing a comprehensive outdoor education curriculum and how these programs meet state curriculum standards will be discussed. Programs such as Project Wild, Project Learning Tree, Project Wet, Project Adventure, Leave No Trace, Beyond Fair Chase, The Leopold Project and others will be taught. |
| OE 350 - Environmental Interpretation | | UG | This course provides front line interpretive skills. Oral presentations utilizing these skills and hands on props, visual aids, and power point will be emphasized. Nationally recognized interpretive certification programs will be introduced. The end of the course requires membership in the National Association for Interpretation. |
| PHYS 113 - Introduction to Physics II | | UG | This course is the second course in a two semester algebra-level sequence, covering |

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| | | | fundamental concepts of physics. Topics include electricity and magnetism, sound, light, optics, and some modern physics concepts. |
| PHYS 213 - University Physics II | | UG | This course is the second course in a two semester calculus-level sequence, covering fundamental concepts of physics. This is the preferred sequence for students majoring in physical science or engineering. Topics include electricity and magnetism, sound, light, and optics. |
| POLS 320 - Public Administration | | UG | This course uses simulations and public management cases, as well as contemporary public administration literature, to introduce students to the theory and practice of public administration. Students work in teams to resolve issues and problems common to the public service environment. |
| PSYC 417 - Health Psychology | | UG | This course is an investigation of the psychological aspects of health and of physical disorders and disease processes. It will explore psychological interventions targeted at prevention as well as those focusing on the resolution or management of disorders. |
| SOC 100 - Introduction to Sociology | | UG | Comprehensive study of society, with analysis of group life, and other forces shaping human behavior. |
| SOC 150 - Social Problems | | UG | A study of present day problems in contemporary societies, such as racism, sexism, ageism, alcoholism, drug addiction, physical and mental health, war and environmental issues - their significance and current policies and action. |
| SOC 151 - Social Issues in Sustainability | | UG | This course examines issues of sustainability that include social impacts on the environment, inequality, consumption and waste, urbanization, violence, and issues of health and well-being. |
| SOC 326 - Mediation and Conflict Resolution | | UG | This course is a study of the causes, characteristics, dynamics and intervention processes associated with both interpersonal and international conflict. |
| SOC 403 - Sociological Theory | | UG | This is an introduction to the classics in social theory, various schools of social thought, and modern developments in the discipline. It also covers the major ideas of the classical and modern theorists, the social environment in which they wrote, and the implications of their contributions. |

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| SOC 440 - Urban Sociology | | UG | A study of the urban community, focusing on its development, social structures and institutional patterns. |
| SOC 462 - Population Studies | | UG | A study of human populations with respect to size, distribution, and structure, with emphasis on theories of population growth and decline, population policies, and impacts on the environment. |
| SOC 463 - Environmental Sociology | | UG | This course examines how population growth, technology, and social organizations affect the natural environment and how the natural environment affects humans and their systems. |
| SOC 471 - Medical Sociology | | UG | This course provides an introduction to the field of medical sociology. It examines the social aspects and components of health, illness, patient-healthcare worker relationships and healthcare systems. |
| SLDR 610 - Crisis Leadership | | G | This course will focus on relevant theories and models relating to crisis leadership and emergency management. Topics include leadership versus management issues, diagnosing threats versus risks, distinctions between crisis events, situational awareness, critical incident tier structures, assessment and planning, media control, critical incident stress management and debriefings, conflict and crisis communication/negotiating resolutions. |
| SLDR 630 - Human Factors in Crisis Leadership | | G | This course will focus on human factors relating to crisis leadership. Topics include defining and differentiating operational roles in response to critical incidents, the impact of critical incidents and trauma, critical incident debriefings, the role of social and group dynamics, and the need for preparation, planning, ongoing training and exercises to address human factors related to the development and implementation of organizational tactics, techniques, and procedures related to leading people during crisis. |
| SLDR 640 - Applications of Crisis Leadership and Emergency Management | | G | This course will focus on the application of crisis leadership to specific critical incidents relating to terrorism and homeland security, transportation disasters, natural and manmade catastrophes, technology disasters, workplace and schoolhouse violence situations, hostage situations, and other critical incidents. The student will be required to develop and implement applications and |

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| | | | approaches to critical incidents that include the elements of prediction, prevention, mitigation, preparedness, response, and post-response (recovery). Topics include the role of training and exercises (tabletop and field), operations orders, continuity of operations, and crisis management planning. |
| SLDR 740 - Leading Change: Ethics and Social Responsibility | | G | Recent studies of leadership suggest that organizations and political units require strong leaders who understand and adhere to ethical standards. The future of US society may depend in part upon persons who are capable of providing ethical, as well as strong, leadership. It is necessary that leaders understand their position imposes an obligation to adhere to ethical standards in all components of leadership. These components include, but not are limited to: communication, inspiration, collaboration, facilitation, manipulation, and even coercion. |
| SLDR 748 - Social Change and Diversity | | G | Examines social changes throughout history as explained by classical and contemporary theorists and applies such theories to current social changes. Students explore the impact of a diverse workforce on leadership practices and decision making while they examine new organizational structures that embrace diversity and a multi-cultural workforce. |
| Sustainability Courses | | | |
| SUST 510 - Fundamentals of Sustainability | | G | This course will examine the multifaceted dimensions of sustainability. Natural, social and economic systems will be explored for key relationships, factors and elements of sustainability. Students will acquire the necessary knowledge and tools needed to be change agents for a sustainable future. |
| SUST 520 - Science for Sustainability | | G | Science for Sustainability is a course designed to take a systems approach to analyze important science topics (solid and air pollution, the carbon cycle, water, energy, etc.) and their role in a sustainable future. Students enrolled in this course will develop a deeper understanding and an ability to describe in detail the scientific connections in each system and between |

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| | | | different systems, in addition to the various economic and social factors that play important roles in working with these systems. |
| SUST 572 - Resource & Environmental Economics | | G | Resource and environmental economics surveys the allocation and conservation of natural resources from a perspective of optimal use and sustainability. Emphasis is placed on environmental economics including the problems of pollution, population, and economic growth. Methods for evaluating projects and programs are considered. (was SUST 530) |
| SUST 710 - Human Dimensions of Sustainability | | G | This course will explore both the individual and societal aspects of sustainability. It will examine the influence that human thought, action and technology has on a sustainable way of life. It will examine population trends, global consumption patterns, belief systems, social organizations, social norms, and social identities. |
| SUST 720 - Communication and Change | | G | This course instructs students in the art of effective communication. The theoretically driven course teaches students the key skills and techniques that can be used to actively produce meaningful change in individuals, groups, businesses, and communities in order to reach toward sustainability. |
| SUST 730 - Environmental Law and Policy | | G | The course will provide a framework for understanding the background and development of significant legal and policy decisions affecting the environmental regulation in the United States. Participants will gain an understanding of the core features of US environmental laws and regulations, developments in regulatory policy-making, the relationship between the national and state governments regarding environmental regulation, and the roles of key political interests in the policy-making process. |
| SUST 750 - Quantitative Methods in Sustainability | | G | Quantitative Methods in Sustainability will introduce students to analytical methods for sustainability (carbon footprint, polling and demographic analysis, etc.). In this class the students will gain the knowledge of various methods for the collection and analysis of data. The student will gain proficiency in these methods as well as the ability to communicate and utilize the results. |
| SUST 760 - Global Climate Change | | G | This course emphasizes the current status of climate change science and the impacts climate |

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| | | | change is having on human society and biodiversity on a global scale. Participants will explore the cultural and societal implications of climate change, the impact that climate change has on biological diversity, as well as discuss why biological diversity is important to human culture and society. The different attitudes and responses to climate change will be explored, as well as how to discuss the topic with people from a wide range of opinions on the subject. |
| SUST 785 - Capstone | | G | The capstone project will showcase the student's ability to address a real world issues or problem using the tools learned throughout the program. The project will use an interdisciplinary approach to build a proposed pathway to overcome the selected topic in a sustainable way. Students will have the opportunity to develop their ideas through group discussion and interaction before preparing an oral proposal of their intended project. Once approved, the student will work independently to build the project using the knowledge and tools gained in the program. |
| SUST 792 - Topics | | G | A course devoted to a particular issue in a specified field. Course content is not wholly included in the regular curriculum. Guest artists or experts may serve as instructors. Enrollments are usually limited with significant one-on-one student-teacher involvement. |
| SUST 794 - Internship | | G | Applied, monitored and supervised, field-based learning experience for which the student may or may not be paid. Students gain practical experience; they follow a negotiated and or directed plan of study. A higher level of supervision is provided by the instructor in these courses that is the case with field experience. This course requires permission of the Instructor and Program Coordinator. Fees will be charged in addition to tuition and regular campus fees. |