OLD DOMINION UNIVERSITY
PROPOSAL FOR A NEW MINOR, NEW INTERDISCIPLINARY MINOR
OR SIGNIFICANT CHANGES TO AN EXISTING MINOR

A minor may be chosen by students to support the major, to offer greater job opportunities to the student on graduation, or to provide recognition of study in a second academic area. Completion of an approved minor will meet the upper-division General Education requirement. A minimum of 12 credit hours, normally at the advanced level (300-400) in a specified field of study is required.

Interdisciplinary minors require 12 credit hours of 300/400-level courses selected from at least two different disciplines with a maximum of six credits from any one discipline. Three credit hours in the interdisciplinary minor may be in the major, if a major course is listed as an option for the interdisciplinary minor. As such, it will be credited toward both the major and the interdisciplinary minor.

Please refer to the Undergraduate Catalog for the complete policy on minors.

Minimum enrollment expectations for minors are five graduates in five years or the minor will be discontinued.

Proposed Action (check one)

(●) New Minor ( ) New Interdisciplinary Minor ( ) Significant Changes to an Existing Minor

1. Name of proposed minor or minor to be changed:
   Humanities and Data Science

2. Description of proposed minor or change to an existing minor:
   The Humanities and Data Science minor provides the opportunity to expose Humanities majors to Data Science concepts increasing their opportunity to participate in Data Science related fields.

3. Rationale for proposal:
   (address what the proposed minor will accomplish for students)
   The exposure of non-scientists to data science can reduce these students' intimidation associated with data science tools and methods and provide non-specialists with knowledge of data science concepts and terminology.

4. Majors likely to enroll in the minor (for new minors):
   This minor is targeted at Arts and Humanities students, but students across the University will find it attractive due to its interdisciplinary nature.

5. Projected enrollment and why (for new minors):
   Based on similar interdisciplinary minors, projected enrollment is 30 students per year.

6. Proposed Effective Term:
   Fall 2025

7. Resources needed, including human resources, library resources, faculty resources, and funding resources:

   Any resources needed for this new minor will be funded through the National Endowment for the Humanities (NEH): Humanities Connections Integrating Humanities with a Data Science Curriculum grant.

8. Program requirements: [List below all courses required for the minor, the prerequisites, and the total hours required for the minor. Submit the appropriate information through the online Course Inventory Management (CIM) process in CourseLeaf (nextcatalog.odu.edu/courseadmin) for all new courses/course changes.]

   See attached sheet for program requirements

9. Description (showing new copy or revised copy) for the next Undergraduate Catalog.

   The Humanities and Data Science minor provides the opportunity to expose Humanities majors to Data Science concepts increasing their opportunity to participate in Data Science related fields.

10. Schedule for offering courses (include whether the minor can be completed in two years and whether it will be available through Distance Learning) (for new minors):

    The minor can be completed in two years and some courses maybe available through distance learning. Course offerings are managed by individual departments, but all courses will be offered at least once per academic year, and many are offered both Fall and Spring semesters.

11. Effect on current department course schedule (for new minors):

    There is no anticipated effect on current schedules.

APPROVED

Holly A. H. Handley 10/17/2024
College Dean Date

Teresa Kouri Kissel 10/1
Originator of Request

See attached Sheet
External Department Chair(s) Date
(If applicable)

Frank Li 10/17/2024
Department Chair

Chair, Faculty Senate Committee A Date

Jana 2 W 10/17/2024
Chair, College Committee

Provost Date

ADMINISTRATIVE CODING

Effective Term_____ Major Code _____

College _____ Degree Code _____

Department _____

Humanities and Data Science Minor

Coordinator: Dr. Teresa Kouri-Kissel, Associate Professor, Department of Philosophy and Religious Studies

For completion of the Minor, students must have a minimum overall grade point average of 2.00 in all courses required for the minor exclusive of pre-requisites. At least six (6) hours of the required twelve (12) must be taken through courses offered by Old Dominion University.

Three credit hours in the interdisciplinary minor may be in the major if a major course is listed as an option for the interdisciplinary minor. As such, it will be credited toward both the major and the interdisciplinary minor. Interdisciplinary minors require 12 credit hours of 300/400-level courses selected from at least two different disciplines with a maximum of six credits from any one discipline. Course substitutions may be approved by the interdisciplinary minor coordinator.

A. Required Courses: 2 courses – 6 credits

1. DASC 300 Foundations of Data Science
2. DASC 357E Ethics and Data

B. Elective Courses: 2 courses – 6 credits

COMM 303: Introduction to Strategic Communications
COMM 408 Health Communication
COMM 4XX: Communicating with data

ENGL 334W Technical Writing
ENGL 370 Linguistics: A survey of topics in English linguistics

CRJS 3XX: Data and Criminal Justice
GEOG 300 Maps and Geographic Information
HIST 396: History of information

IDS 300W Interdisciplinary Theory and Concepts
IDS 3XX: Data and Humanities Research

RELS 3XX: Mindfulness, Contemplation and Data
PHIL 3XX: AI Ethics
PHIL 4XX: Philosophy of Information

SOC 309 Population and Society
SOC 337: Introduction to Social Research

QUST/WNST 302W Dimensions of Diversity: Intersectionality Among Women
WMST 495/595: Gender and data
WMST 470 Feminist Research Methods

C. Catalog Course Descriptions

Required Courses:

DASC 300 Foundations of Data Science: This course provides an interdisciplinary overview of data sciences drawing on key elementary topics related to data analytics. A specific focus is given to the way that decisions made about data from those disciplinary pursuits inform policy, product development, and humanity. Topics addressed include elements of data, data collection, the connections between machine learning and data, survey research, programming with Python and R, statistical learning, model evaluations, digital engineering, and ethical uses of data.

DASC 357E Ethics and Data: This course explores, from a philosophical perspective, ethical questions arising from collecting, drawing inferences from, and acting on data, especially when these activities are automated and on a large scale. This course will provide students a framework for considering the ethical implications of data usage. Emphasis will be placed on discussing how historic and contemporary examples of potentially unethical practice could be altered to reduce harm and increase equity. Topics to be covered may include, but are not limited to, systematic approaches to assessing ethical issues; privacy and confidentiality; defining research and the responsibilities associated with conducting ethical research; implicit and structural biases in data collection and analysis; freedom of speech; consent to data collection.

Elective Courses:

COMM 303 Introduction to Strategic Communications: A study of interactions within and among communication workplaces and the public. Attention is given to the media, promotions, community relations, and public information.

COMM 408 Health Communication: This course provides an overview of contemporary scholarship on phenomena within the scope of interpersonal health communication. Students will become familiar with fundamental communication processes that are involved in the interprofessional management of physical and mental health. Additionally, students will develop an awareness of how communication among friends, family members, professionals, and others influences people's well-being, and how, in turn, health and illness shape communication and relationship dynamics.

COMM 4XX: Communicating with data– a course on interpreting data and communicating with math, misinformation and disinformation

CRJS 3XX: Data and Criminal Justice - this course explores how to use data to prevent crime and educate criminal justice workers

ENGL 334W Technical Writing: This course provides the student with a working knowledge of various types of technical communication, including the writing of proposals, instructions, and reports for both the specialist and the nonspecialist. This is a writing intensive course.

ENGL 370 Linguistics: A survey of topics in English linguistics. Topics include the sound system, the structure of words, the ways in which words and phrases form meaningful utterances, the structure of conversations, differences between spoken and written English, language acquisition by children, language variation, and language in its social context.

GEOG 300 Maps and Geographic Information: An investigation of different representations of the Earth: physical and cognitive maps, atlases, spatial databases, aerial photographs, and remote sensing imagery, with an emphasis on the use of geographic tools for communicating and analyzing information.

HIST 396: History of information - a course on the history of information, starting with the printing press, and moving to today

IDS 300W Interdisciplinary Theory and Concepts: An examination of the history, concepts and application of interdisciplinary study. This course includes an analysis of similarities and differences in academic disciplines and the application of interdisciplinary approaches to a specific topic of study. This is a writing intensive course.

IDS 3XX: Data and Humanities Research - a course on how to approach data from a variety of disciplines in order to incorporate it into appropriate discipline-specific research methods

PHIL 3XX: AI Ethics - a course on the ethical implications of AI.

PHIL 4XX: Philosophy of Information - starting with Floridi's architechtonic system, this course explores what information is and how it is impactful.

QUST/WNST 302W Dimensions of Diversity: Intersectionality Among Women: This course explores the intersections of gender, race, class, and sexuality within society; it examines how identity has been a key site for generating knowledge and political action. Students will learn the histories and nuances of topics such as intersectionality, privilege, allyship, and cultural appropriation. Finally, the course will examine how concepts such as 'diversity' are mobilized in relation to different institutions, such as the law and education. This is a writing intensive course.

RELS 3XX: Mindfulness, Contemplation and Data – a course on how mindfulness and meditation work, informed by a variety of scientific research studiesPHIL 3XX: AI Ethics

SOC 309 Population and Society: This course offers an introduction to the field of population and its interconnection to broader societal changes. It introduces students to the concepts, issues and concerns in population studies and examines the interaction between population processes and economic development, social changes and environment. Topics include theories, fertility, mortality, migration, distribution and composition, population and development, population and environment, and policy. Emphasis is given to a critical assessment of population processes as both causes and consequences of development and societal changes with a focus on comparative patterns between developing countries and the more developed countries.

SOC 337 Social Research Methods: An overview of the scientific approach to the study of social phenomena through quantitative, qualitative and mixed methods approaches. Interviews/survey and experimental/quasi-experimental designs and other strategies of social inquiry are covered. The course includes the application of software to provide descriptive and inferential statistics to summarize data.

WMST 470 Feminist Research Methods: The course explores the ethics, practice, and multiple forms of conducting feminist research. Narrative research methods are practiced through hands-on oral herstory assignments. Throughout the course, the process of knowledge construction is interrogated from a

feminist perspective.

WMST 495/595: Gender and data - a course on how data informs our ideas of gender, and what the data actually says.

Course	Chair	Approval Data
COMM 4XX: Communicating with data COMM 303: Introduction to Strategic Communications COMM 408 Health Communication	Tim Anderson	9-Oct-24
CRJS 344 Social Science and Crime Mapping CRJS 3XX: Data and Criminal Justice SOC 309 Population and Society SOC 337: Introduction to Social Research	Ruth Triplett	10-Oct-24
ENGL 334W Technical Writing ENGL 370 Linguistics: A survey of topics in English linguistics	Veronica Wats	17-Oct-24
GEOG 300 Maps and Geographic Information GEOG 402 Geographic Information Systems	Jonathan Leib	Oct 10,2024
HIST 3XX: History of information	Ingo Heidbrink	10-Oct-24
IDS 300W Interdisciplinary Theory and Concepts IDS 3XX: Data and Humanities Research	Virginia Tucke	8-Oct-24
RELS 3XX: Mindfulness, Contemplation and Data PHIL 3XX: AI Ethics PHIL 4XX: Philosophy of Information	Nicole Willock	8-Oct-24
QUST/WGS 302W Dimensions of Diversity: Intersectionality Among Women WGS470 Feminist Research Methods WGS 3XX: Gender and data	Liz Groenveld	14-Oct-24