Addendum

College of Arts and Sciences
All changes effective Fall 2021

Courses

School of Art
(ARTM) Art Museum and Curator Studies

Mid-impact: Add

**ADD SUBJECT CODE**

(ARTM) Art Museum and Curator Studies

Rationale: This new subject code and new courses are needed for the new minor in Museum and Curatorial Studies Minor.

Mid-impact: Add

**ADD COURSE, REQUEST VARIABLE TITLE** (multiple courses)

ARTM 379 - Special Topics in Museum Studies (3)
Student- or instructor-initiated course offered at convenience of department. 
Repeatability: May be repeated. Maximum 12 hours.

ARTM 479 - Special Topics in Museum Studies (3)
Student- or instructor-initiated course offered at convenience of department. 
Repeatability: May be repeated. Maximum 12 hours.

**ADD COURSE** (multiple courses)

ARTM 490 Introduction to Museum Studies (3)
Overview of museum and/or gallery work in contemporary society. May consider history, governance, financial structure, exhibitions, collections, education, development, and guest services.

ARTM 492 - Off-Campus Study (1-6)
Off-campus study. 
Repeatability: May be repeated. Maximum 12 hours.

Rationale: These new courses are needed for the new minor in Museum and Curatorial Studies Minor.

Intercollegiate

All changes effective Fall 2021

Courses

Mid-impact: Add

**ADD SUBJECT CODE**

(DATA) Data Science
Rationale: Data Science (DATA) is a new subject code under the Intercollegiate academic unit. These courses will be maintained within Intercollegiate, with revisions/adds/drops of DATA courses routed through the Vice Provost for Academic Affairs.

**ADD COURSE** (multiple courses)

**DATA 201 Data Knowledge and Discovery (3)**
Introduction to the essential elements of data science through the examination of data sets drawn from a variety of fields. Explores data collection and management, exploration and visualization of data, modeling, computing, and ethical issues associated with data science. Introduces students to programming through hands-on activities.

**DATA 202 Data Management and Visualization (3)**
Introduction to foundational concepts and techniques in the management and presentation of data for effective data-informed decision making. Explores data storage and indexing strategies, data warehousing, metadata management, visualization of time-series and geospatial data, and best practices for presenting data to inform decision making, such as heat maps and infographics.  
*(RE) Prerequisite(s): DATA 201.*

**DATA 301 Data Stewardship and Ethics (3)**
Overview of the data life cycle, including creation, collection, assurance, description, discovery, integration, use, reuse, and preservation. Explores data management principles and the development and implementation of data life cycle management plans. Examines the legal, ethical, and technological challenges in developing and implementing data management policies.  
*(RE) Prerequisite(s): DATA 201.*

**DATA 302 Analytical Methods of Data Science (3)**
Survey of modern algorithms and methods in data science, focusing on how, why, and when various methods work. Includes topics in statistics, machine learning, and optimization.  
*(RE) Prerequisite(s): DATA 202.*

**DATA 499 Data Science Capstone (3)**
Development and implementation of an independent study project using data science methods while adhering to ethical procedures.  
*(RE) Prerequisite(s): DATA 301, DATA 302.*

Rationale: DATA 201, 202, 301, and 302 provide the core curriculum for the Arts & Sciences BA in Interdisciplinary Programs with a concentration in Data Science (pp. 132-135) and for the Intercollegiate minor in Data Science (pp. 350-352). DATA 499 provides an independent study option for students pursuing the Data Science concentration or minor. The courses have been designed by a team of faculty members from four colleges under the terms of a memorandum of understanding governing undergraduate education in Data Science at UTK.

Financial impact: There will be conventional instructional costs associated with the delivery of DATA 201, 202, 301, and 302. A memorandum of understanding among the four colleges involved in the development of the courses will specify responsibilities for offering and staffing the courses.