ISM4930

Special Topics in Information Systems:

Business Data Analytics

Fall 2019

INSTRUCTOR : Matthew McCarville, DBA(c), MBA, MS-BIA, MSc-PM, CSM

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OFFICE HOURS : By appointment. Emailed questions (**with ISM4930 in email title**) will be answered ASAP but within 24 hours.

CLASS & SECTION # : # 20802 Section 29E0

CLASS LOCATION : Heavener 210, M/W Periods 9 & 10 (4:05-6pm)

PREREQUISITES

Academic

Pre-requisites:

• ISM3013- Introduction to Information Systems

• QMB3250­- Statistics for Business Decisions

• Completion or current enrollment in either ISM4210- Database Management or

QMB4702- Managerial Operations Analysis 2

Computing
Students must have access to a laptop that runs the MS-Excel, [PowerBI](https://powerbi.microsoft.com/en-us/get-started/?&WT.srch=1&WT.mc_id=AID631257_SEM_M2kNt4pL&gclid=CjwKCAjwwbHWBRBWEiwAMIV7E8urySuY64R2dQBHzmaZ-Sl4Y2z3W8qO_yBtvE_8AHjicHrOCO3x-RoCdhwQAvD_BwE), [Tableau](https://www.tableau.com/products/desktop/download), and [IBM Cognos](https://www.ibm.com/developerworks/downloads/im/cognosbi/). **Windows 10 Professional** is preferred but Mac OS is also acceptable.

## REQUIRED TEXTS:

1. Title:“Practical Statistics for Data Scientists: 50 Essential Concepts” (referred to below as PSDS)

Authors: [Peter Bruce](https://www.linkedin.com/in/peter-bruce-32134514/) and [Dr. Andrew Bruce, Ph.D](https://www.linkedin.com/in/andrewgbruce/)

Edition: 1st

ISBN-10: 1491952962. ISBN-13: 978-1491952962

Price: @ $14+S/H

[Amazon link](https://www.amazon.com/gp/product/1491952962/ref%3Dppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1)

1. Title: “Data-Driven Storytelling” (referred to below as DDS)

Authors: Nathalie Henry Riche, Christophe Hurter, Nicholas Diakopoulos, Sheelagh Carpendale

Edition: 5th

ISBN-13: 978-1138197107

Price: $40+S/H [Amazon link](https://www.amazon.com/Data-Driven-Storytelling-AK-Peters-Visualization/dp/1138197106) and [CRC Publishing Link](https://www.crcpress.com/Data-Driven-Storytelling/Riche-Hurter-Diakopoulos-Carpendale/p/book/9781138197107).

1. Title: “Big Data Revolution: What farmers, doctors and insurance agents teach us about discovering big data patterns.” (referred to below as BDR)

Authors: [Rob Thomas](https://www.linkedin.com/in/robertdthomas/) and [Dr. Patrick McSharry, PhD](https://www.linkedin.com/in/mcsharry/).

Edition: 1st

ISBN-13: 978-1118943724

Price: $13 @ <http://a.co/d/ajM9YF0> or Ebook at <https://bit.ly/31JMlCj>

## RECOMMENDED & REFERRED TO READINGS:

Cole Knaffic. 2015. *Storytelling with Data-A Data Visualization Guide for Business Professionals.* Wiley. Hoboken, New Jersey.

$13 @ <http://a.co/d/2zosHJZ>

Edward Tufte.2001. 2nd Edition. *The Visual Display of Quantitative Information*. Graphics Press. Cheshire, Connecticut.

$35 @ <http://a.co/d/iEjDoZ2>

Scott Berinato. 2016. *Good Charts: The HBR Guide to Making Smarter, More Persuasive Data Visualizations*. Harvard Business Review Press. Brighton, Massachusetts.

$35 @ <https://hbr.org/product/good-charts-the-hbr-guide-to-making-smarter-more-persuasive-data-visualizations/15005-PBK-ENG>

Stephen Few. 2009. *Now you see it: Simple visualization techniques for quantitative analysis*. Analytics Press. Oakland, California.

$13 @ <http://a.co/d/f1lsQDP>

[Wayne Winston, PhD](https://kelley.iu.edu/faculty-research/faculty-directory/profile.cshtml?id=WINSTON). 2016. *Microsoft Excel Data Analysis and Business Modeling.* Microsoft Press. Redmond, Washington.

$18 @ <https://amzn.to/2s6JF1B> or [Microsoft Link](https://www.microsoftpressstore.com/store/microsoft-excel-data-analysis-and-business-modeling-9781509304219).

## REQUIRED SOFTWARE

* MS-Excel 2016 (or 365), [RStudio Desktop (1.2.X)](https://www.rstudio.com/products/rstudio/download/#download), [PowerBI](https://powerbi.microsoft.com/en-us/get-started/?&WT.srch=1&WT.mc_id=AID631257_SEM_M2kNt4pL&gclid=CjwKCAjwwbHWBRBWEiwAMIV7E8urySuY64R2dQBHzmaZ-Sl4Y2z3W8qO_yBtvE_8AHjicHrOCO3x-RoCdhwQAvD_BwE), [Tableau](https://www.tableau.com/academic/students), [IBM Watson Studio Desktop](https://www.ibm.com/cloud/watson-studio) and [IBM Cognos](https://www.ibm.com/products/cognos-analytics).
* We will use the desktop versions of all platforms to implement many of the concepts and techniques we discuss in class. It works under both Windows and Mac.

COURSE OBJECTIVES

By the end of the course, students will be able to:

* Understand the key data analytics/visualization principles and techniques.
* Apply data visualization principles and techniques to real-world business problems using modern tools.
* Critically evaluate the visualization design and presentation of complex data
* Use the tools/platforms from class to design innovative static and interactive visualizations to effectively present and communicate actionable information and enable data exploration

ASSURANCE OF LEARNING

Each program at the Warrington College of Business Administration has developed goals and objectives that express the most valued skills and knowledge that students should be able to demonstrate upon completion of the total learning experiences in that program. The following goals and objectives are specifically mapped to QMB4930.

* **Learning Goal 1**: Our graduates will be knowledgeable in core Information Technology, Decision Support, and Analytical Skills.
* **Learning Goal 2**. Solve intricate problems by applying expanded knowledge of ever evolving technologies, processes, and technical skills

COURSE EVALUATION

**Assignments --** Assignments are designed to reinforce the lectures.  They will require that you read the course texts, help files and additional resources as well as the material covered in class. Some assignments are team assignments. Please form a team of two for the purpose of these assignments.

**Exams/Quizzes --** There will be weekly **pre-class** quizzes and a Mid-term exam.

**Team Analytics Project –** There will be a handout that describes the assignment in more depth at the midterm. You will be teamed in 2-3 and either choose or be assigned a publicly available dataset from a government or private source. See Appendix 1 at the end of this syllabus for sources.

You will submit a Powerpoint presentation (a website, [Google Slides](https://www.google.com/slides/about/) or [Prezi](https://prezi.com/) are also fine) that includes a walk-through of:

* data source selection(s) and why
* any merging/formatting/cleaning or other techniques needed
* analysis/aggregation of data needed before dashboarding
* list of questions asked that your dashboard answers (2-4 minimum, depending on complexity)
* the platform/tool (Tableau/Cognos/PowerBI/Google Data Studio/Alteryx) team chose and why
* screen/snapshots or a live demo that walk us all through your dashboard (including design choices made and why plus lessons learned)

We will go over your dashboard together in class for feedback, discussion, and constructive criticism in order to improve it.  Any critical feedback during discussion is expected to be incorporated ASAP and resubmitted.

Rubric for measuring team project and presentation:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 50/50professional delivery/ complete walk through of each part | 30/50semi-professional delivery/mostly complete walk through | 10/50barely professional and only partial walk through | 0/50unprofessional and no walk through OR not submitted |
| Presentation Quality |  |  |  |  |
| Data source/merge/clean |  |  |  |  |
| Data analysis and 2-4 questions asked |  |  |  |  |
| Tool choice explanation and dashboard demo |  |  |  |  |

**External Certificates --** There will be four external certificates integrated into the second half of the course. You are responsible for completing each certificate and providing the certificate of completion for your final grade. Each certificate has 3-7 hours of video to aid in completing the required tasks.

1. [PowerBI](https://www.udemy.com/powerful-reports-and-dashboards-with-microsoft-powerbi/): <https://www.udemy.com/powerful-reports-and-dashboards-with-microsoft-powerbi/>
2. [Tableau](https://www.udemy.com/tableau-accelerate-your-career-and-get-certified/): <https://www.udemy.com/tableau-accelerate-your-career-and-get-certified/>
3. [IBM Cognos Analytics](https://www.udemy.com/learning-path-the-roadway-to-ibm-cognos-analytics/): <https://www.udemy.com/learning-path-the-roadway-to-ibm-cognos-analytics/>
4. [Google Data Cloud](https://cloud.google.com/solutions/big-data/): From Data to Insights with Google Cloud Platform Coursera Course 1 of 4: 5 sub-modules included in “[Exploring and Preparing your Data with BigQuery](https://www.coursera.org/programs/google-specialization/browse?configure%5BclickAnalytics%5D=true&indices%5Btest_products%5D%5Bconfigure%5D%5BclickAnalytics%5D=true&indices%5Btest_products%5D%5Bconfigure%5D%5Bfilters%5D=curriculumIds%3AXAXrqXF6EeekqQ5u-urXJA&indices%5Btest_products%5D%5Bconfigure%5D%5BhitsPerPage%5D=10&indices%5Btest_products%5D%5Bpage%5D=2&productId=Ra4cH7UNEeeYzRI7sB4MMA&productType=s12n&query=specializations&showMiniModal=true)”
	1. *This first course in this four course specialization is Exploring and Preparing your Data with* [*BigQuery*](https://cloud.google.com/bigquery/)*. Here we will see what the common challenges faced by data analysts are and how to solve them with the big data tools on* [*Google Cloud Platform*](https://cloud.google.com/solutions/#smart-business-analytics-ai)*. You’ll pick up some* [*SQL*](https://www.codecademy.com/learn/sql-analyzing-business-metrics) *along the way and become very familiar with using* [*BigQuery*](https://cloud.google.com/bigquery/) *and* [*Cloud Dataprep*](https://cloud.google.com/dataprep/) *to analyze and transform your datasets. This first course should take about one week to complete, 5-7 total hours of work. By the end of this course, you’ll be able to query and draw insight from millions of records in our* [*BigQuery public datasets*](https://cloud.google.com/public-datasets/)*. You’ll learn how to assess the quality of your datasets and develop an automated data cleansing pipeline that will output to* [*BigQuery*](https://cloud.google.com/bigquery/)*. Lastly, you’ll get to practice writing and troubleshooting SQL on a real* [*Google Analytics e-commerce*](https://developers.google.com/analytics/devguides/collection/analyticsjs/ecommerce) *dataset to drive marketing insights.*

**Guest Speakers—**You are required to attend all in person guest speaker classes and be in business professional attire. You are also expected to submit two questions for each speaker before class after reviewing their LinkedIn and respective company profiles.

**Grading--** If you think I have graded your work incorrectly you have a right to appeal. **Please turn in a written appeal** (preferably by email) that specifies the question number and a brief explanation of why my grading is incorrect. I will not accept any appeal without sufficient proof. Use your textbook, sample programs, lecture notes, etc. as a reference when writing your appeal. **I give partial credit; however, if an answer is incomplete or is partially correct do not expect more than half the points no matter how close you believe it is to the correct answer.**

You are expected to calculate your own grade based on the following weights and scale (A at 93, A- at 89, B+ at 85, B at 81, B- at 77, C+ at 73, C at 70, C- at 67, D+ at 63, D at 60, D- 57, E below 57).

10 Pre-class Quizzes 20% (200 pts-20 pts each)
1 Mid-term Exam       20% (200 pts)

1 Final Exam 20% (200 pts)

4 Ext. Certificates 20% (200 pts-50 per certificate)

1 Analytics Project 20% (200 pts)

 100% (1,000 pts)

ACADEMIC DISHONESTY

For any academic class activity, students must follow the [University of Florida Student Honor Code](http://www.dso.ufl.edu/sccr/honorcodes/honorcode.php) **Any violation of the honor code will automatically result in a grade of E (Fail) for this course and further sanctions that may include a suspension or expulsion from the University.**  All incidents will be reported to Student Conduct and Conflict Resolution at the University of Florida.

CLASS POLICIES AND PARTICIPATION

By enrolling in this course **you agree to abide by the following five policies:**

1. ATTENDANCE

Attendance is not mandatory (except for guest speakers and Zoom online classes) but you are responsible for all material covered in class and submitting all pre-class quizzes. I will not be posting class presentations but instead an outline to be filled in on content covered. In class, I expect full participation in discussion as there are many concepts that can be learned during the course of a dialogue. You are expected to complete assigned readings **before class** as I ask questions and expect you to be able to answer them. **I reserve the right to give additional pop quizzes in addition to the scheduled pre-class quizzes to encourage a high level of preparedness**.

1. MAKE-UP WORK AND LATE WORK

No makeup work will be provided for this course, unless it is due to a [University of Florida sanctioned excuse](http://www.registrar.ufl.edu/staff/policies.html#attendance). Proper documentation will have to be provided in support, clearly indicating: (a) the name of the student, (b) the reason for absence and (c) the dates of the absence. This documentation must also be verified by the [Dean of Students Office](https://www.dso.ufl.edu/home/contact-us). Please inform the instructor at least one week prior to the scheduled test for a reschedule date. In case of a medical emergency, you please inform the instructor **within one week** after the test. Requests made after one week of the test date will not be honored.

Late work will be penalized 10% of overall grade for every business day post-deadline and will only be accepted with communication and agreement prior to the assignment deadline.

3. EXTRA CREDIT
There will be **no extra credit work available** at any time for any part of the coursework.

4. LAPTOPS
You can bring your laptops to class for notes and for the integrated tutorials from external certificates. However, you need to keep them turned off all other times.

5. CELL/SMART PHONES IN THE CLASSROOM

Absolutely no cell/smart phones can be used in the classroom during lectures, quizzes and exams. If you need to use your mobile device, please do so in the mid-class break.

RESOURCES FOR STUDENTS WITH DISABILITIES

Students requesting special classroom accommodations must first register with the Dean of Students Office and obtain the necessary documentation to request appropriate in-class accommodations. For any students that are first-generation, low-income or disabled under the [ADA Section 504](https://www.accreditedschoolsonline.org/resources/parents-students-disabilities/) there are resources dedicated to helping students succeed and thrive at UF through Student Support Services. Please sign up for these services at: <http://sss.oas.aa.ufl.edu/>

ISM4930-Tentative Schedule (may change)

|  |  |  |
| --- | --- | --- |
| **Week** | **Topic**  | **Readings/Quizzes/Assignments Due** |
| **1.1** | 10/21: Syllabus and Introduction of DDS, BDR and PSDS textbooks. | Assignment Submission Instructions-No Quiz |
| **1.2** | 10/23: Guest Lecture- Analytics Resume Prep and Analytics job/intern search process and Graduate Analytics Intern Round Table (bring questions) | Submit your current resume, top 5 Gallup Strengths and two questions to be submitted BEFORE class for analytics round table in Canvas Discussion Post |
| **2.1** | 10/28: Implications for Data Storytelling, Transforming Farms with Data and Exploratory Data Analysis | DDS Intro/Chapter 2, BDR Intro-Ch. 1 and PSDS Chapter 1. Pre-class quiz due BEFORE class starts |
| **2.2** | 10/30: Exploration and Explanation in Data Storytelling and Guest Lecture-[Nate Watson](https://www.linkedin.com/in/natewatson/), President of [Data Science Academy](http://canlearnsmart.com/) and [Contemporary Analysis](http://canworksmart.com/) | DDS Chapter 3 and PSDS Chapter 2. Pre-class quiz due BEFORE class starts |
| **3.1** | 11/4: Exploration and Explanation in Data Storytelling, Statistical Experiments and Significance Testing and Google InsertHTML/Trends/Alerts/Web Analytics and [MapBox](https://www.mapbox.com/use-cases/data-visualization/) | DDS Chapter 3 and PSDS Chapter 3. Pre-class quiz due BEFORE class starts |
| **3.2** | 11/6: Data-Driven Storytelling Techniques and Guest Speaker-[Erik Gomez](https://www.linkedin.com/in/erik-gomez-50620/), [Google Cloud](https://cloud.google.com/free/) Solutions Architect | DDS Chapter 4.Google Coursera Certificate & pre-class quiz due BEFORE class starts |
| **4.1** | 11/11: Narrative Design Patterns, Retail/Fashion, Customer Relationships, & Regression and Prediction | DDS Chapter 5, BDR Ch. 4-5 and PSDS Chapter 4. Start Tableau certificate. Pre-class quiz due BEFORE class starts |
| **4.2** | 11/13: From Analysis to Communication, Porsche, Puma and Guest Speaker- [TD Ameritrade](https://www.tdameritrade.com/why-td-ameritrade.page)-[Narayanan Nair (Nair)-](https://www.linkedin.com/in/narayanannair/)Director-Operational Analytics & Business TechnologyMidterm due over DDS 1-5 and PSDS 1-4 and match-up on team project | DDS Chapter 7, BDR Ch.14-15 and Tableau certificate. Pre-class quiz due BEFORE class starts |
| **5.1** | 11/18: Organizing the Work of Data Driven Visual Storytelling and Tableau Certificate-Guest Speaker-[EA Games](https://www.ea.com/games/madden)-Launch Director- [John Davis](https://www.linkedin.com/in/johndavismit/), (UF MBA) | DDS Chapter 8 and Tableau Certificate. Pre-class quiz due BEFORE class starts |
| **5.2** | 11/20: Communicating Data with an Audience, Finish Tableau, Start PowerBI Certificate, Guest Speaker-([OPIE Software](http://www.opiesoftware.com/)- CEO, [Paul Prusakowski](https://www.linkedin.com/in/paul-e-prusakowski-447a11/) and team) | DDS Chapter 9 and Tableau/PowerBI. Pre-class quiz due BEFORE class starts |
| **6.1** | 11/25: Ethics in Data-Driven Storytelling, EthicsGame Simulation, Finish PowerBI Udemy Certificate, Guest Speaker-[EthicsGame](https://www.ethicsgame.com/exec/site/about_us.html) CEO, [Catharyn Baird](https://www.linkedin.com/in/catharyn-baird-b943498/), JD ([Zoom](https://ufl.zoom.us/j/4825155384)) | DDS Chapter 10, EthicsGame Simulation and PowerBI. Pre-class quiz due BEFORE class starts. [ZOOM class-online](https://ufl.zoom.us/j/4825155384) |
| **6.2** | 11/27: Evaluating Data Driven Stories, Applying Big Data Patterns, The Architecture of the Future, and Start of IBM Cognos Analytics Udemy Certificate | DDS Chapter 11, BDR Ch.16 & 20 EthicsGame Simulation and IBM Cognos Analytics Certificate. Pre-class quiz due BEFORE class starts. [ZOOM class-online](https://ufl.zoom.us/j/4825155384) |
| **7.1** | 12/2: Finish IBM Cognos Analytics Udemy Certificate, Watson Analytics Desktop-Guest Speaker-[IBM Data and AI](https://www.ibm.com/analytics/products) GM- [Rob Thomas (UF MBA)](https://www.linkedin.com/in/robertdthomas/), [Megan Maloney-](http://www.linkedin.com_in_mgmaloney94/) Data Science and Business Analytics Leader for Healthcare, Education, State & Local Government, plus IBM Watson Analytics team | IBM Cognos Analytics Udemy Certificate and Watson Analytics Desktop.  |
| **7.2** | 12/4: Team Project Presentations and Guest Speaker/reviewer [Art Thomas](https://www.linkedin.com/in/arthur-thomas-33b3493/), Director of Strategic Accounts for [Oxford Global](https://blog.oxfordcorp.com/spotlight-on-arthur-thomas-director-of-strategic-accounts-healthcare-technology) |  |
| **8** | Final Exam Due –(see [Warrington Exam Schedule](http://warrington.ufl.edu/graduate/academics/finals.asp)) |  |

**Appendix 1: Open Data Sources**

* [Data.gov](https://www.data.gov/)
* [State University of New York-SUNY-Milne Library Data Collections: Open Data Sets by topic](https://libguides.geneseo.edu/c.php?g=67454&p=434785#s-lg-box-1300425)
* [Kaggle-Datasets](https://www.kaggle.com/datasets)
* [GitHub-Awesome Public Datasets](https://github.com/awesomedata/awesome-public-datasets)
* [SpringBoard-Free Public Datasets](https://www.springboard.com/blog/free-public-data-sets-data-science-project/)
* [Statista](https://www.statista.com/markets/)
* [Data.world](https://data.world/)
* [Google Cloud](https://console.cloud.google.com/bigquery?utm_source=bqui&utm_medium=link&utm_campaign=classic&project=gold-circlet-184521&p=bigquery-public-data&d=census_bureau_usa&page=dataset) or [Google Trends](https://trends.google.com/trends/?geo=US)
* [Uber](https://movement.uber.com/cities?lang=en-US)
* [Amazon Web Services-AWS-Registry of Open Data](https://registry.opendata.aws/)
* [Tableau Public-Resources-Sample Data](https://public.tableau.com/s/resources)
* [Cognos Analytics-Sample Data Sets](https://community.ibm.com/community/user/businessanalytics/blogs/steven-macko/2017/06/19/guide-to-ibm-cognos-analytics-sample-data-sets)
* [Princeton University Library-Catalog of Data Files](https://catalog.princeton.edu/?f%5Bformat%5D%5B%5D=Data+file)
* [US Census Bureau-Federal Statistical Research Data Centers](https://www.census.gov/about/adrm/fsrdc/about/available_data.html)
* [US Census Bureau-Datasets](https://www.census.gov/data.html)
* [US Dept. of Labor-Bureau of Labor Statistics-BLS-Databases](https://www.bls.gov/data/)
* [US Bureau of Labor Statistics' (BLS) Public Data Application Programming Interface (API)](https://www.bls.gov/developers/)
* [US Bureau of Labor Statistics-BLS-Office of Inspector General-Data/Audit Reports](https://www.oig.dol.gov/auditreports.htm)
* [US Dept. of Labor-Bureau of Labor Statistics-BLS-Equal Employment Opportunity Data Posted Pursuant to the No Fear Act](https://www.dol.gov/oasam/programs/crc/NoFearResult.html)
* [Center for Disease Control-CDC](https://www.cdc.gov/DataStatistics/)
* [US Food and Drug Administration-FDA](https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/search/default.cfm)
* [Alcohol, Tobacco, and Firearms-ATF](https://www.atf.gov/resource-center/data-statistics)
* [US Drug Enforcement Agency-DEA](https://www.dea.gov/dea-foia-library)
* [Federal Bureau of Investigation-FBI-Uniform Crime Reporting (UCR) Program](https://www.fbi.gov/services/cjis/ucr)
* [US Office of Justice Programs-Bureau of Justice Statistics-BJS](https://www.bjs.gov/content/dtdata.cfm)
* [The World Bank-Data Catalog](https://datacatalog.worldbank.org/)
* [LendingClub-Statistics-Loan Data](https://www.lendingclub.com/info/download-data.action)
* [Fannie Mae Single-Family Loan Performance Data](http://www.fanniemae.com/portal/funding-the-market/data/loan-performance-data.html)
* [Sallie Mae-Historical Performance Data-Asset-backed securities](https://www.salliemae.com/investors/asset-backed-securities/)
* [US Department of Education](https://www2.ed.gov/rschstat/landing.jhtml?src=pn)
* [US Dept of Education-Office of Postsecondary Education-OPE-Database of Accredited Postsecondary Institutions and Programs](https://ope.ed.gov/dapip/#/home)
* [National Center for Education Statistics-NCES-Integrated Postsecondary Education Data System-IPEDS](https://nces.ed.gov/ipeds/use-the-data)
* [Office of Student Financial Aid-FL-Bright Futures](https://www.floridastudentfinancialaidsg.org/SAPFBFSSR/SAPFBFSSR)
* [Harvard Law School-Government, Voting & Polling Data](https://hls.harvard.edu/library/research/find-a-database/government-voting-polling-data/)
* [Global Elections Database](http://globalelectionsdatabase.com/)
* [US Health and Human Services-HHS-Office of Family Assistance-OFA](https://www.acf.hhs.gov/ofa/programs/tanf/data-reports)
* [US Health and Human Services-HHS-Opiods](https://www.hhs.gov/opioids/about-the-epidemic/hhs-response/better-data/index.html)
* [HHS-Office of Medicare and Appeals-Health Data Sets](https://www.hhs.gov/about/agencies/omha/about/health-data-sets/index.html)
* [Data.Medicare.Gov-Medicare Data](https://data.medicare.gov/)
* [HealthData.Gov-High Value Health Data](https://healthdata.gov/)
* [US Coast Guard-USGC-Maritime Information Exchange](https://cgmix.uscg.mil/)
* [US Coast Guard-USGC-Boating Accident Statistics](http://www.uscgboating.org/statistics/accident_statistics.php)
* [World Health Organization-WHO-Global Health Observatory data repository](http://apps.who.int/gho/data/node.home)
* [The United Nations-UN-UNData](http://data.un.org/)
* [The United Nations-UN Comtrade Database](https://comtrade.un.org/)
* [The United Nations-UN- Monthly Bulletin of Statistics-MBS Online](https://unstats.un.org/unsd/mbs/app/DataSearchTable.aspx)
* [The United Nations-UNData-Statistical Databases](https://unstats.un.org/unsd/databases.htm)
* [The United Nations-UNHCR-UN Refugee Agency Data](http://popstats.unhcr.org/en/demographics)
* [US Environmental Protection Agency-EPA-Envirofacts](https://www.epa.gov/enviro/data-downloads)
* [US Department of Agriculture and Ag Research Services-USDA-Food Composition Databases](https://ndb.nal.usda.gov/ndb/)
* [US Dept. of Agriculture-USDA-National Agricultural Library-NAL-Databases](https://www.nal.usda.gov/fnic/databases)
* [US Dept. of Agriculture-USDA-National Agricultural Statistics Service-NASS](http://www.nass.usda.gov/index.asp)
* [US Dept. of Agriculture-USDA-National Agricultural Statistics Service-NASS-Florida Office](https://www.nass.usda.gov/Statistics_by_State/Florida/index.php)
* [US Dept. of Agriculture-USDA-Economic Research Service-ERS-Food Security Data](https://www.ers.usda.gov/data-products/food-security-in-the-united-states.aspx)
* [US National Credit Union Administration-NCUA-CUSO and Economic Data](https://www.ncua.gov/analysis/cuso-economic-data)
* [US National Library of Medicine-NLM-NIH Data Sharing Repositories](https://www.nlm.nih.gov/NIHbmic/nih_data_sharing_repositories.html)
* [US Department of the Interior-DOI-Datasets](https://data.doi.gov/dataset)
* [US National Park Service-NPS-Integrated Resource Management Applications-IRMA-Data](https://irma.nps.gov/DataStore/Report/Index)
* [US Fish and Wildlife Service-FWS](https://www.fws.gov/gis/data/national/)
* [FL-Fish and Wildlife Conservation Commission-FWCC](http://geodata.myfwc.com/search?catalog=public&collection=Dataset&sort=-modified)
* [NCAA-Research Data](http://www.ncaa.org/about/resources/research)
* [Sean Lahman-Baseball Database](http://www.seanlahman.com/baseball-archive/statistics/)