

Digital Skills Lab Course Catalogue

Develop key skills you need to achieve your personal, professional and academic goals



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AI and machine learning

Self-study courses

- [AI Business School collection](#)
 - [AI for social sciences](#)
 - [Machine learning 1: cats and dogs image classification](#)
 - [Machine learning 2: face detection algorithms](#)
 - [Microsoft: AI Business School industry learning paths](#)



Blockchain and cybersecurity

Self-study courses

- [Codecademy: introduction to cybersecurity](#)
- [Codecademy: learn the basics of blockchain with Python](#)



Bootstrap

Self-study courses

- [Codecademy: learn Bootstrap](#)



Coding

In-person and online workshops

Python

- [Python Fundamentals](#)
- [Working with Tabular Data](#)
- [Data visualisation in Python](#)

R

- [R Fundamentals](#)
- [R Data Wrangling](#)
- [R Data Visualisation](#)

VBA (Excel)

- [VBA](#)



Coding

Self-study courses

- [Get started with coding collection](#)
 - [Codecademy: learn how to code](#)
 - [Codecademy: learn R](#)
 - [Codecademy: learn the basics of regular expression](#)
 - [Dataquest: introduction to Python for data science](#)
 - [Microsoft: take your first steps with Python](#)
 - [OpenLearn: learn to code for data analysis](#)
- [Codecademy skills path: code foundations](#)
- [Dataquest: APIs in R](#)
- [Dataquest: web scraping in R](#)





CSS

Self-study courses

- [Codecademy: learn CSS](#)
- [Codecademy: learn intermediate CSS](#)
- [Codecademy skills path: learn how to build websites](#)



Data collection and analysis

Self-study courses

- [Codecademy career path: data analyst](#)
- [Codecademy career path: data scientist](#)
- [Codecademy skills path: analyze data with SQL](#)
- [Introduction to NVivo](#)
- [Querying in NVivo](#)
- [Text analysis with Python](#)



Data collection and analysis

Self-study courses

- [Codecademy: learn web scraping with BeautifulSoup](#)
- [Dataquest: web scraping in R](#)
- [OpenLearn: learn to code for data analysis](#)
- [Introduction to NVivo](#)
- [Querying in NVivo](#)
- [Introduction to Stata](#)
- [Text analysis with Python](#)



Data visualisation

In-person and online workshops

- [Data visualisation in Python series](#)
- [Data visualisation in R series](#)
- [Excel 4d: Charting Data](#)
- [Excel 4d: Charting Data \(online\)](#)
- [Tableau series](#)

Self-study courses

- [Codecademy: BI dashboards with Tableau](#)
- [Codecademy: visualise data with Python](#)





Excel

In-person workshops

- [Excel 1: Calculated Worksheets](#)
- [Excel 2: Numeric Calculations](#)
- [Excel 3: Essential Functions](#)
- [Excel 4a: Lookup Functions](#)
- [Excel 4b: Pivot Tables](#)
- [Excel 4c: Sorting and Filtering](#)
- [Excel 4d: Charting Data](#)
- [Excel 4e: Data Tools](#)
- [Excel 4f: What-if Analysis](#)
- [Excel 5: Complex Calculations](#)
- [Excel 6: Using Macros](#)

Online workshops

- [Excel 1: Calculated Worksheets \(online\)](#)
- [Excel 2: Numeric Calculations \(online\)](#)
- [Excel 3: Essential Functions \(online\)](#)
- [Excel 4a: Lookup Functions \(online\)](#)
- [Excel 4b: Pivot Tables \(online\)](#)
- [Excel 4c: Sorting and Filtering \(online\)](#)
- [Excel 4d: Charting Data \(online\)](#)
- [Excel 4e: Data Tools \(online\)](#)
- [Excel 4f: What-if Analysis \(online\)](#)
- [Excel 5: Complex Calculations \(online\)](#)
- [Excel 6: Using Macros \(online\)](#)





Git and GitHub

Self-study course

- [Introduction to Git and GitHub](#)





HTML

Self-study courses

- [Codecademy: learn HTML](#)
- [Codecademy skills path: learn how to build websites](#)



Self-study courses

- [Introduction to NVivo](#)
- [Querying in NVivo](#)

Other resources

- [QSR tutorials and webinars on YouTube](#)





PowerPoint

In-person workshops

- [PowerPoint 1: Designing Slides](#)
- [PowerPoint 2: Formatting Slides](#)
- [PowerPoint 3: Professional Slides](#)

Online workshops

- [PowerPoint 1: Designing Slides \(online\)](#)
- [PowerPoint 2: Formatting Slides \(online\)](#)
- [PowerPoint 3: Professional Slides \(online\)](#)



In-person workshops

- [Python Fundamentals 1: Numerical Variables](#)
- [Python Fundamentals 2: String Variables](#)
- [Python Fundamentals 3: Converting](#)
- [Python Fundamentals 4: Lists](#)
- [Python Fundamentals 5: List of lists](#)
- [Python Fundamentals 6: Functions](#)
- [Python Fundamentals 7: For loops](#)
- [Python Fundamentals 8: Conditionals](#)
- [Python Fundamentals 9: Writing functions](#)

Online workshops

- [Python Fundamentals 1: Numerical Variables \(online\)](#)
- [Python Fundamentals 2: String Variables \(online\)](#)
- [Python Fundamentals 3: Converting \(online\)](#)
- [Python Fundamentals 4: Lists \(online\)](#)
- [Python Fundamentals 5: List of lists \(online\)](#)
- [Python Fundamentals 6: Functions \(online\)](#)
- [Python Fundamentals 7: For loops \(online\)](#)
- [Python Fundamentals 8: Conditionals \(online\)](#)
- [Python Fundamentals 9: Writing functions \(online\)](#)



In-person workshops

- [Working with Tabular Data 1: NumPy Arrays](#)
- [Working with Tabular Data 2: NumPy 2D Arrays](#)
- [Working with Tabular Data 3: Pandas Basics](#)
- [Working with Tabular Data 4: Pandas Indexing](#)
- [Working with Tabular Data 5: Pandas Data Exploring](#)

Online workshops

- [Working with Tabular Data 1: NumPy Arrays \(online\)](#)
- [Working with Tabular Data 2: NumPy 2D Arrays \(online\)](#)
- [Working with Tabular Data 3: Pandas Basics \(online\)](#)
- [Working with Tabular Data 4: Pandas Indexing \(online\)](#)
- [Working with Tabular Data 5: Pandas Data Exploring \(online\)](#)



In-person workshops

- [Data Visualisation in Python 1: Line Plots with Matplotlib](#)
- [Data Visualisation in Python 2: Scatter, Bar Plots and Histograms with Matplotlib](#)
- [Data Visualisation in Python 3: Plotting with Pandas and Seaborn](#)

Online workshops

- [Data Visualisation in Python 1: Line Plots with Matplotlib \(online\)](#)
- [Data Visualisation in Python 2: Scatter, Bar Plots and Histograms with Matplotlib \(online\)](#)
- [Data Visualisation in Python 3: Plotting with Pandas and Seaborn \(online\)](#)



Self-study courses

- [Python collection](#)
 - [Codecademy: exploratory data analysis with Python](#)
 - [Codecademy: learn the basics of blockchain with Python](#)
 - [Codecademy: learn web scraping with BeautifulSoup](#)
 - [Codecademy: visualize data with Python](#)
 - [Dataquest: introduction to Python for data science](#)
 - [Machine learning 1: cats and dogs Image classification](#)
 - [Machine learning 2: face detection algorithms](#)
 - [Microsoft: take your first steps with Python](#)
 - [OpenLearn: learn to code for data analysis](#)
 - [Text Analysis with Python](#)
- [Codecademy career path: data analyst](#)
- [Codecademy career path: data scientist](#)





R

In-person workshops

- [R Fundamentals 1: Numerical Variables](#)
- [R Fundamentals 2: Vectors, Functions, and Indexing](#)
- [R Fundamentals 3: Strings, Factors, and Type Conversion](#)
- [R Fundamentals 4: Data Frames](#)
- [R Fundamentals 5: Loading data and packages](#)
- [R Fundamentals 6: Conditionals and Logic](#)
- [R Fundamentals 7: Lists and Matrices](#)

Online workshops

- [R Fundamentals 1: Numerical Variables \(online\)](#)
- [R Fundamentals 2: Vectors, Functions, and Indexing \(online\)](#)
- [R Fundamentals 3: Strings, Factors, and Type Conversion \(online\)](#)
- [R Fundamentals 4: Data Frames \(online\)](#)
- [R Fundamentals 5: Loading data and packages \(online\)](#)
- [R Fundamentals 6: Conditionals and Logic \(online\)](#)
- [R Fundamentals 7: Lists and Matrices \(online\)](#)





R

In-person workshops

- [R Data Wrangling 1: Pipes and introduction to dplyr](#)
- [R Data Wrangling 2: Data wrangling with dplyr continued](#)
- [R Data Wrangling 3: Joining and aggregation](#)

Online workshops

- [R Data Wrangling 1: Pipes and introduction to dplyr \(online\)](#)
- [R Data Wrangling 2: Data wrangling with dplyr continued \(online\)](#)
- [R Data Wrangling 3: Joining and aggregation \(online\)](#)





R

In-person workshops

- [R Data Visualisation 1: Data vis with ggplot2](#)
- [R Data Visualisation 2: Box, histogram and line plots](#)

Online workshops

- [R Data Visualisation 1: Data vis with ggplot2 \(online\)](#)
- [R Data Visualisation 2: Box, histogram and line plots \(online\)](#)





R

Self-study courses

- [R Collection](#)
 - [Codecademy: learn R](#)
 - [Dataquest: APIs in R](#)
 - [Dataquest: web scraping in R](#)
 - [Text analysis with R and Quanteda](#)



In-person workshops

- [SPSS 1: Foundations of Data Management](#)
- [SPSS 2: Data Exploration](#)
- [SPSS 3: Introduction to inferential statistics](#)
- [SPSS 4: Regressions in SPSS](#)

Online workshops

- [SPSS 1: Foundations of Data Management \(online\)](#)
- [SPSS 2: Data Exploration \(online\)](#)
- [SPSS 3: Introduction to inferential statistics \(online\)](#)
- [SPSS 4: Regressions in SPSS \(online\)](#)



Other resources

- [Department of Methodology online tutorials](#)
- [Department of Methodology YouTube tutorials](#)



SQL

Self-study courses

- [Codecademy: learn SQL](#)
- [Codecademy career path: data analyst](#)
- [Codecademy career path: data scientist](#)



In-person workshops

- [Stata Fundamentals 1: Import and inspecting data](#)
- [Stata Fundamentals 2: Do-files and computing variables](#)
- [Stata Fundamentals 3: Linear regression](#)
- [Stata Fundamentals 4: Foreach Loops](#)
- [Stata Fundamentals 5: if qualifiers](#)

Online workshops

- [Stata Fundamentals 1: Import and inspecting data \(online\)](#)
- [Stata Fundamentals 2: Do-files and computing variables \(online\)](#)
- [Stata Fundamentals 3: Linear regression \(online\)](#)
- [Stata Fundamentals 4: Foreach Loops \(online\)](#)
- [Stata Fundamentals 5: if qualifiers \(online\)](#)



In-person workshops

[Data Cleaning in Stata 1: Strings](#)

[Data Cleaning in Stata 2: Missing values](#)

[Data Cleaning in Stata 3: Labels](#)

[Data Cleaning in Stata 4: Reshaping data](#)

[Data Cleaning in Stata 5: Merging data](#)

Online workshops

[Data Cleaning in Stata 1: Strings \(online\)](#)

[Data Cleaning in Stata 2: Missing values \(online\)](#)

[Data Cleaning in Stata 3: Labels \(online\)](#)

[Data Cleaning in Stata 4: Reshaping data \(online\)](#)

[Data Cleaning in Stata 5: Merging data \(online\)](#)



Self-study course

- [Introduction to Stata](#)

Other resources

- [Department of Methodology online tutorials](#)
- [Department of Methodology YouTube tutorials](#)



Tableau

In-person workshops

- [Tableau 1: Introduction to Tableau](#)
- [Tableau 2: Filtering and Sorting](#)
- [Tableau 3: Geographic Data and Relationships](#)
- [Tableau 4: Time Series and Aggregations](#)

Online workshops

- [Tableau 1: Introduction to Tableau \(online\)](#)
- [Tableau 2: Filtering and Sorting \(online\)](#)
- [Tableau 3: Geographic Data and Relationships \(online\)](#)
- [Tableau 4: Time Series and Aggregations \(online\)](#)

Self-study course

- [Codecademy: BI dashboards with Tableau](#)





VBA

In-person workshops

- [VBA 1: Elements and Variables](#)
- [VBA 2: Worksheet Manipulation](#)
- [VBA 3: Data Manipulation](#)
- [VBA 4: Debugging and Troubleshooting](#)
- [VBA 5: Report Generation](#)

Online workshops

- [VBA 1: Elements and Variables \(online\)](#)
- [VBA 2: Worksheet Manipulation \(online\)](#)
- [VBA 3: Data Manipulation \(online\)](#)
- [VBA 4: Debugging and Troubleshooting \(online\)](#)
- [VBA 5: Report Generation \(online\)](#)



Web design

Self-study courses

- [Codecademy skills path: learn how to build websites](#)
- [Web design collection:](#)
 - [Codecademy: learn HTML](#)
 - [Codecademy: learn Bootstrap](#)
 - [Codecademy: learn CSS](#)
 - [Codecademy: learn intermediate CSS](#)
 - [Introduction to Git and GitHub](#)





Word

In-person workshops

- [Word 1: Dissertation Timesavers and Troubleshooting](#)

Online workshops

- [Word 1: Dissertation Timesavers and Troubleshooting \(online\)](#)



Digital Skills Lab

Develop key skills you need to achieve your personal, professional and academic goals

- **[Attend a workshop](#)**
Sessions run daily online and on campus
- **[Study online in your own time via Moodle](#)**
Study what you want, when you want
- **[Attend an online drop-in session via Teams](#)**
Get tailored help and advice
- **[Get a Microsoft Office Specialist \(MOS\) Certification](#)**
Validate your skills
- **[Sign-up to our newsletter and follow us on the Student Hub](#)**
Get weekly news of upcoming events and learning opportunities



“The Digital Skills Lab provides you with a very friendly and open environment in which you can ask the all questions you always wanted to ask about a specific programme and can fill exactly those knowledge gaps you have without feeling any shame about it.”



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