Digital Skills Lab Course Catalogue

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

Contents

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 workshops

Python

- [Python for Data Science](#)

R

- [R Fundamentals Workshop series](#)
- [R Data Wrangling and Visualisation Workshop series](#)

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 expressions](#)
- [Dataquest: introduction to Python for data science](#)
- [Microsoft: Python for beginners](#)
- [OpenLearn: learn to code for data analysis](#)
- [Codecademy skills path: code foundations](#)
- [Dataquest: APIs in R](#)
- [Dataquest: web scraping in R](#)
- [Text analysis with Python](#)
- [Text analysis with R and Quanteda](#)

CSS

Self-study courses

- [Codecademy: learn CSS](#)
- [Codecademy: learn intermediate CSS](#)
- [Codecademy skills path: Build a Website with HTML, CSS, and Github Pages](#)

Data collection and analysis

Self-study courses

- [Codecademy career path: data scientist - analytics specialist](#)
- [Codecademy career path: data scientist - machine learning specialist](#)
- [Codecademy skills path: analyze data with SQL](#)
- [Text analysis with Python](#)
- [Text analysis with R and Quanteda](#)

Data collection and analysis

Self-study courses

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

Data visualisation

In-person and online workshops

- Python for Data Science Workshop Series
- R Data Wrangling and Visualisation Workshop Series
- Excel Data and Visualisation Workshop Series
- Tableau series

Self-study courses

- Codecademy: BI dashboards with Tableau
- Codecademy: visualise data with Python

Document Creation

In-person workshops

- [Report writing with R Markdown](#)
- [Introduction to LaTeX](#)
- [Word 1: Dissertation Timesavers and Troubleshooting](#)

Excel

In-person workshops

- Excel Fundamentals Workshop Series

  [Includes: Excel 1: Calculated Worksheets, Excel 2: Numeric Calculations, Excel 3: Essential Functions, Excel 4a: Lookup Functions]

- Excel Data and Visualisations Workshop Series

  [Includes: Excel 4b: Pivot Tables, Excel 4c: Sorting and Filtering, Excel 4d: Charting Data, Excel 4e: Data Tools, Excel 4f: What-if Analysis]

- Excel Expert Workshops

  [Includes: Excel 5: Complex Calculations, Excel 6: Using Macros]

Git and GitHub

Self-study course

- [Introduction to Git and GitHub](#)

HTML

Self-study courses

- [Codecademy: learn HTML](#)
- [Codecademy: skills path: Build a Website with HTML, CSS, and Github Pages](#)

LaTeX

In-person workshops

- [Introduction to LaTeX](#)

NVivo

Self-study courses

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

Other resources

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

PowerPoint

In-person workshops

- PowerPoint: Creation to Presentation Workshop Series

Python

In-person workshops

- [Python for Data Science](#)

Python

Self-study courses

- Python collection
    - Codecademy: exploratory data analysis in Python
    - Codecademy: learn the basics of blockchain with Python
    - Codecademy: learn web scraping with Beautiful Soup
    - 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 scientist – analytics specialist
- Codecademy career path: data scientist – machine learning specialist

R

In-person workshops

- R Fundamentals Workshop Series
- R Data Wrangling and Visualisation Workshop Series

R

Self-study courses

- R Collection
  - Codecademy: learn R
  - Dataquest: APIs in R
  - Dataquest: web scraping in R
  - Text analysis with R and Quanteda

R Markdown

In-person workshops

- [Report Writing with R Markdown](#)

SPSS

In-person workshops

- SPSS 1: Foundations of Data Management
- SPSS 2: Data Exploration
- SPSS 3: Introduction to inferential statistics
- SPSS 4: Regressions in SPSS

SPSS

Other resources

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

SQL

Self-study courses

- Codecademy: learn SQL
- Codecademy career path: Data Scientist: Analytics Specialist
- Codecademy career path: Data Scientist: Machine Learning Specialist

Stata

In-person workshops

- Stata Fundamentals 1 & 2
- Stata Fundamentals 3 & 4
- Stata Fundamentals 5

Stata

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

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

Web design

Self-study courses

- Codecademy skills path: Build a Website with HTML, CSS, and Github Pages
- 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

Digital Skills Lab

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

- **Attend a workshop**

  Sessions run daily 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

- **Follow us on the Student Hub**

  Keep up to date with 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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