Digital Skills Lab Course Catalogue

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

Last updated: 17 October 2022

Contents

AI and machine learning 3	Blockchain and cybersecurity 4	Bootstrap 5	Coding 6	CSS 8
Data collection and analysis 9	Data visualisation 11	Document Creation 12	Excel 13	Git and GitHub 14
HTML 15	LaTeX 16	Markdown 17	NVivo 18	PowerPoint 19
Python 20	R 22	SPSS 24	SQL 26	Stata 27
Tableau 30	VBA 31	Web design 32	Word 33	

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



Markdown

In-person workshops

- Report Writing with Markdown



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



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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