CAREER SHEET · COMPUTING & AI

Computing & AI

Building software, data and AI, and keeping systems running and secure.



5 careers

Under 1–5 years after school

Mathematics + Computer key subjects

CAREER	QUALIFICATION	YEARS	LICENCE OR REGISTRATION	ENTRY	USUAL IELTS
 **Computer scientist** Academic	Bachelor's in computer science	**3–4** yrs	Not needed	●●○ Competitive	**6–6.5**
 **Data scientist** Academic	Bachelor's in data science or maths, often a master's	**3–5** yrs	Not needed	●●○ Competitive	**6.5–7**
 **Cybersecurity specialist** Professional	Degree or diploma, then industry certification	**3–5** yrs	Professional certification (for example CISSP)	●●○ Competitive	**6–6.5**
 **IT support technician** Vocational	Certificate or diploma (for example CompTIA A+)	**Under 1–2** yrs	Not needed	●○○ Open	**5.5**
 **Network technician** Vocational	Diploma and network certification (for example CCNA)	**1–2** yrs	Network certification	●○○ Open	**5.5**

Figures are typical ranges and vary by country and university. Always check entry rules with each university or college.

WHAT TO STUDY NOW

Subjects for each career

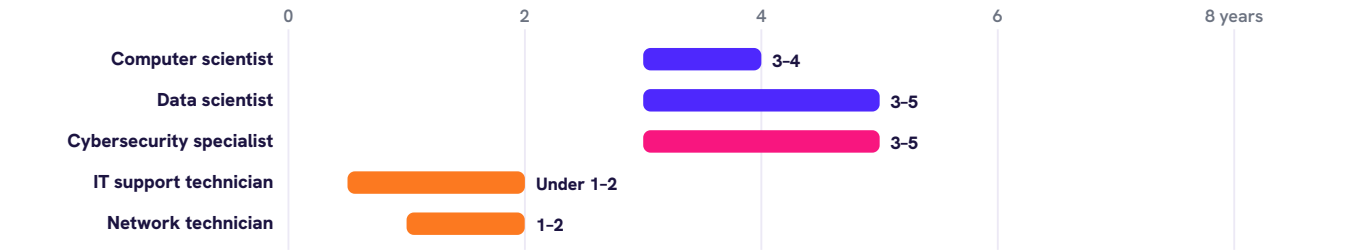
● Needed ○ Helpful – Not needed

	Mathematics	Computer science	Statistics	ICT and digital literacy	Physics	Programming & coding	English language	AI basics
Computer scientist	●	●	–	–	○	○	○	–
Data scientist	●	○	●	–	–	○	–	○
Cybersecurity specialist	○	●	–	○	–	○	–	–
IT support technician	–	○	–	●	–	–	○	–
Network technician	○	○	–	●	–	–	–	–

HOW LONG IT TAKES

Years after school

Academic · Professional · Vocational



Start now on Uni Prep



Mathematics
Grade 6 to foundation · on Uni Prep



Computer science
Grade 6 to foundation · on Uni Prep



Statistics
Grade 6 to foundation · on Uni Prep



English for university
Towards IELTS 5.5–7

Set this as your goal

Scan to open Computing & AI and see your three checks.