

## COMPUTER SCIENCE ACCELERATOR (CSA) PROGRAMME: Summer Term 2022 (updated: 24/04/22)

Whether you are new/aspiring to teach Computing or want to enhance your subject knowledge the CSA programme is for you. These courses will increase your confidence to teach up to GCSE Computer Science and are fully funded by the DfE. Generous bursaries are available including £220 for each F2F or remote course attended up to a maximum of 4 courses ie £880. For completing 2 courses (at least one of which is F2F or remote) there is a £300 bursary and on successfully taking a short test a further £620, so a possible maximum bursary of £1,800 per participant. Trainees/returners/supply teachers will receive a delayed bursary of £920 with payments being made on successful employment within a state-funded secondary school. *These bursaries have to be used by July 2022 – don't miss out!*

Attend our courses and support will be available through our CS Champion who can provide guidance throughout the programme, and advise on next steps following its completion. Participants will be supported throughout their journey with one-to-one support. To request support complete this [form](#) and for details of all available CSA courses go to [www.bctsa.org/computing-hub](http://www.bctsa.org/computing-hub) or email [teachcomputing@bishopchalloner.bham.sch.uk](mailto:teachcomputing@bishopchalloner.bham.sch.uk).

## NEW TO COMPUTING PATHWAY

| Title  | Date(s) available:                       | F2F Venue/Remote   | Booking Link  |
|--|--|--|---|
| Foundation knowledge of computer science for KS3 and GCSE                        | 12 <sup>th</sup> May, 9 am – 3 pm        | Remote   | <a href="#">Foundation knowledge of computer science - 12 May</a>                                 |
|  | 4 <sup>th</sup> June, 11 am – 12 pm      | Remote   | <a href="#">Foundation knowledge of computer science - 4 June</a>                                 |
|  | 11 <sup>th</sup> June, 11 am – 12 pm     |  | Note: as this particular instance of the course runs on a Saturday, there is no bursary available |
|  | 18 <sup>th</sup> June, 11 am – 12.30 pm  |  |   |
|  | 25 <sup>th</sup> June, 11 am – 12 pm     |  |   |
|  | 14 <sup>th</sup> June, 2.15 pm – 4.30 pm | Remote   | <a href="#">Foundation knowledge of computer science - 14 June</a>                                |
|  | 16 <sup>th</sup> June, 4 pm – 5.30 pm    |  |   |
| 21 <sup>st</sup> June, 4 pm – 5 pm   |  |  |   |
| 5 <sup>th</sup> July, 9.30 am – 3.30 pm  | F2F: Birmingham                          | <a href="#">Foundation knowledge of computer science - 5 July</a>  |   |
| 14 <sup>th</sup> July, 9 am – 3 pm   | Remote                                   | <a href="#">Foundation knowledge of computer science - 14 July</a> |   |
| An introduction to algorithms, programming and data in computer science          | 19 <sup>th</sup> May, 9 am – 3 pm        | Remote   | <a href="#">An Introduction to algorithms - 19 May</a>  |
|  | 8 <sup>th</sup> June, 9 am – 3 pm        | Remote   | <a href="#">An Introduction to algorithms - 8 June</a>  |
|  | 28 <sup>th</sup> June, 2.15 pm – 3.45 pm | Remote   | <a href="#">An Introduction to algorithms - 28 June</a>   |
|  | 30 <sup>th</sup> June, 4 pm – 5.30 pm    |  |   |
|  | 5 <sup>th</sup> July, 4 pm – 5 pm        |  |   |
|  | 6 <sup>th</sup> July, 9.30 am – 3.30 pm  | F2F: Birmingham  | <a href="#">An introduction to algorithms - 6 July</a>  |
| 15 <sup>th</sup> July, 9 am – 3 pm   | Remote                                   | <a href="#">An Introduction to algorithms - 15 July</a>            |   |
| An introduction to computer systems, networking and security in computer science | 25 <sup>th</sup> May, 9 am – 3 pm        | Remote   | <a href="#">An introduction to computer systems - 25 May</a>                                      |
|  | 14 <sup>th</sup> June, 2.15 pm – 4.30 pm | Remote   | <a href="#">An introduction to computer systems - 14 June</a>                                     |
|  | 20 <sup>th</sup> June, 4 pm – 5 pm       |  |   |
|  | 7 <sup>th</sup> July, 9.30 am – 3.30 pm  | F2F: Birmingham  | <a href="#">An introduction to computer systems - 7 July</a>                                      |
|  | 11 <sup>th</sup> July, 9 am – 3 pm       | Remote   | <a href="#">An introduction to computer systems - 11 July</a>                                     |

## PREPARING TO TEACH GCSE COMPUTER SCIENCE PATHWAY

Attend the Intensive CPD Programme consisting of all the courses in this pathway on 3 consecutive face-to-face days being held at President Kennedy Academy, Coventry:

- Python programming constructs: sequencing, selection & iteration: 28<sup>th</sup> June, 9.30 am – 3.30 pm
- The internet and cyber security: 29<sup>th</sup> June, 9.30 am – 3.30 pm
- Representing algorithms using flowcharts and pseudocode: 30<sup>th</sup> June, 9.30 am – 3.30 pm

Click on link for details and to book: [Preparing to teach GCSE computer science – intensive CPD](#)

Or register for the courses individually – dates, times and booking links below:

| Title   | Date(s) available:                       | F2F Venue/Remote   | Details and Booking Link                                  |
|---|--|--------------------|---|
| <b>Python programming constructs: sequencing, selection &amp; iteration</b> | 26 <sup>th</sup> May, 9 am – 3 pm        | Remote             | <a href="#">Python programming constructs - 26 May</a>    |
|   | 21 <sup>st</sup> June, 9.30 am – 3.30 pm | F2F: Wolverhampton | <a href="#">Python programming constructs - 21 June</a>   |
|   | 28 <sup>th</sup> June, 9.30 am – 3.30 pm | F2F: Coventry      | <a href="#">Python programming constructs - 28 June</a>   |
|   | 5 <sup>th</sup> July, 9 am – 3 pm        | Remote             | <a href="#">Python programming constructs - 5 July</a>    |
| <b>The internet and cyber security</b>                                      | 8 <sup>th</sup> June, 9 am – 3 pm        | Remote             | <a href="#">The internet and cyber security - 8 June</a>  |
|   | 29 <sup>th</sup> June, 9.30 am – 3.30 pm | F2F: Coventry      | <a href="#">The internet and cyber-security - 29 June</a> |
|   | 8 <sup>th</sup> July, 9 am – 3 pm        | Remote             | <a href="#">The internet and cyber security - 8 July</a>  |
| <b>Representing algorithms using flowcharts and pseudocode</b>              | 30 <sup>th</sup> June, 9.30 am – 3.30 pm | F2F: Coventry      | <a href="#">Representing algorithms - 30 June</a>         |
|   | 12 <sup>th</sup> July, 9 am – 3 pm       | Remote             | <a href="#">Representing algorithms - 12 July</a>         |

## PROGRAMMING WITH PYTHON PATHWAY

Attend the Intensive CPD Programme consisting of all the courses in this pathway on 3 consecutive face-to-face days being held at The Khalsa Academy Wolverhampton:

- Python programming constructs: sequencing, selection & iteration: 21<sup>st</sup> June, 9.30 am – 3.30 pm
- Python programming: working with data: 22<sup>nd</sup> June, 9.30 am – 3.30 pm
- Python programming: advanced subject knowledge, implementation and testing: 23<sup>rd</sup> June, 9.30 am – 3.30 pm

Click on link for details and to book: [Programming with Python – intensive CPD](#)

Or register for the courses individually – dates, times and booking links below:

| Title   | Date(s) available:                                      | F2F Venue/Remote   | Details and Booking Link   |
|---|---|--------------------|--|
| <b>Python programming constructs: sequencing, selection &amp; iteration</b>       | 26 <sup>th</sup> May, 9 am – 3 pm                       | Remote             | <a href="#">Python programming constructs - 26 May</a>                   |
|   | 1 <sup>st</sup> June, 9 am – 3.30 pm (OCR version)      | Remote             | <a href="#">Python programming constructs: for OCR - 1 June</a>          |
|   | 21 <sup>st</sup> June, 9.30 am – 3.30 pm                | F2F: Wolverhampton | <a href="#">Python programming constructs - 21 June</a>                  |
|   | 27 <sup>th</sup> June, 12.30 pm – 5.30 pm (OCR version) | Remote             | <a href="#">Python programming constructs: for OCR - 27 June</a>         |
|   | 28 <sup>th</sup> June, 9.30 am – 3.30 pm                | F2F: Coventry      | <a href="#">Python programming constructs - 28 June</a>                  |
|   | 5 <sup>th</sup> July, 9 am – 3 pm                       | Remote             | <a href="#">Python programming constructs - 5 July</a>                   |
| <b>Python programming: working with data</b>                                      | 22 <sup>nd</sup> June, 9.30 am – 3.30 pm                | F2F: Wolverhampton | <a href="#">Python programming: working with data - 22 June</a>          |
|   | 6 <sup>th</sup> July, 9 am – 3 pm                       | Remote             | <a href="#">Python programming: working with data - 6 July</a>           |
| <b>Python programming: advanced subject knowledge, implementation and testing</b> | 10 <sup>th</sup> June, 9 am – 3 pm                      | Remote             | <a href="#">Python programming: advanced subject knowledge - 10 June</a> |
|   | 23 <sup>rd</sup> June, 9.30 am – 3.30 pm                | F2F: Wolverhampton | <a href="#">Python programming: advanced subject knowledge - 23 June</a> |
|   | 8 <sup>th</sup> July, 9 am – 3 pm                       | Remote             | <a href="#">Python programming: advanced subject knowledge - 8 July</a>  |

## TEACHING GCSE (OTHER)

| Title  | Date(s) available:                       | F2F Venue/Remote | Details and Booking Link                                       |
|--|--|------------------|--|
| <b>Higher attainment in computer science – meeting the challenges of the exams</b> | 23 <sup>rd</sup> May, 9 am – 3 pm        | Remote           | <a href="#">Higher attainment in computer science - 23 May</a> |
|  | 5 <sup>th</sup> July, 2.30 pm – 3.50 pm  | Remote           | <a href="#">Higher attainment in computer science - 5 July</a> |
|  | 8 <sup>th</sup> July, 2.30 pm – 3.30 pm  |                  |  |
|  | 13 <sup>th</sup> July, 2.30 pm – 4.30 pm |                  |  |
| <b>Supporting GCSE computer science students at grades 1 - 3</b>                   | 17 <sup>th</sup> May, 9 am – 2.30 pm     | Remote           | <a href="#">Supporting GCSE students at grades 1-3 17 May</a>  |
|  | 13 <sup>th</sup> June, 9 am – 3 pm       | Remote           | <a href="#">Supporting-gcse-students-grades-1-3 13 June</a>    |
|  | 27 <sup>th</sup> June, 2.30 pm – 3.30 pm | Remote           | <a href="#">Supporting GCSE students at grades 1-3 27 June</a> |
|  | 30 <sup>th</sup> July, 2.30 pm – 4.45 pm |                  |  |
|  | 6 <sup>th</sup> July, 2.30 pm – 3.45 pm  |                  |  |
| <b>Maths in computer science</b>   | 7 <sup>th</sup> June, 9 am – 3 pm        | Remote           | <a href="#">Maths in computer science - 7 June</a>             |
| <b>Search and sort algorithms</b>  | 7 <sup>th</sup> June, 9 am – 2.30 pm     | Remote           | <a href="#">Search and sort algorithms - 7 June</a>            |

## COMPUTER SYSTEMS

| Title  | Date(s) available:                      | F2F Venue/Remote | Details and Booking Link   |
|--|---|------------------|--|
| <b>Computer systems: input, output and storage</b> | 24 <sup>th</sup> May, 9.30 am – 3 pm    | Remote           | <a href="#">Computer systems: input, output and storage - 24 May</a> |
| <b>Computer processors and instruction sets</b>    | 27 <sup>th</sup> May, 9 am – 3 pm       | Remote           | <a href="#">Computer processors and instruction sets - 27 May</a>    |
| <b>Fundamentals of computer networks</b>           | 7 <sup>th</sup> June, 9.30 am – 4.30 pm | Remote           | <a href="#">Fundamentals of computer networks - 7 June</a>           |

## CSA Revision Sessions - remote

Preparing to take the CSA test sessions will be taking place throughout the Summer Term including:

- 19<sup>th</sup> May, 4.15 pm – 5.45 pm: [Preparing to take the CSA test 19th May](#)
- 23<sup>rd</sup> June, 4.15 pm – 5.45 pm: [Preparing to take the CSA test 23rd June](#)

## West Midlands CSA Celebration - save the date!

The CSA Celebration will recognise and celebrate teachers who have completed their CSA journey (subject knowledge certificate). This CSA Celebration event will take place on Monday, 4<sup>th</sup> July, 1 pm – 3 pm at Millenium Point, Curzon Street, Birmingham. Invitations will be sent out nearer the date to all those that have completed the CSA Programme and achieved the certificate.

## Short Courses/Events – remote (free, no bursary)

- 4<sup>th</sup> May, 3.45 pm – 4.45 pm: [Introduction to Isaac GCSE computer science](#)
- 5<sup>th</sup> May, 3.30 pm – 5.00 pm: [Getting started with Python programming](#)
- 17<sup>th</sup> May, 4.00 pm – 4.45 pm: [Diagnostic assessment for GCSE computer science](#)
- 18<sup>th</sup> May, 3.30 pm – 4.30 pm: [Choosing a GCSE Computer Science specification](#)
- 8<sup>th</sup> June, 3.30 pm – 4.30 pm: [Introduction to the Computing Quality Framework](#)
- 27<sup>th</sup> June, 1.30 pm – 4.00 pm: [West Midlands Secondary Computing Conference](#)