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**Computer & Information Technologies –Informatics Track -Data Science**

**(110101719) Credential (AAS)**

**Program Coordinator: Don Halcomb E-mail: don.halcomb@kctcs.edu Phone: 859-246-6289**

 **Mike Hardin E-mail: mike.hardin@kctcs.edu Phone: 859-246-6619**

**Program Website:** [**https://bluegrass.kctcs.edu/education-training/program-finder/computer-information-technology.aspx**](https://bluegrass.kctcs.edu/education-training/program-finder/computer-information-technology.aspx)

**Student Name: Student ID:**

***Students need to be at KCTCS placement levels for all courses***

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| **Pre-Admission Requirements (if applicable)** |
| **First Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| CIT 105 – Introduction to Computers  | 3 |  |  |  |
| **Total Semester Credit Hours** | **3** |

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| **First Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| CIT 111 – Computer Hardware and Software  | 4 |  |  |  |
| CIT 120 – Computational Thinking | 3 |  |  |  |
| CIT 170 – Database Design Fundamentals | 3 |  |  |  |
| ENG 101 – Writing I | 3 |  |  |  |
| MAT 150 – College Algebra | 3 |  |  | Fulfills Quantitative Reasoning requirement |
| **Total Semester Credit Hours** | **16** |  |  |  |

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| **Second Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| CIT 160 – Introduction to Networking Concepts | 4 |  |  | OR CIT 161 – Introduction to Networks (4) |
| CIT 149-Java I OR INF 120-Elementary Programming | 3 |  |  | Fulfills Level I programming language Req. |
| MAT 155 - Trigonometry | 3 |  |  |  |
| CIT 150 – Internet Technologies | 3 |  |  | OR CIT 155 – Web Page Development OR CIT 157 – Web Site Design and Production |
| **Total Semester Credit Hours** | **13** |  |  |  |

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| **Third Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| CIT 249-Java II OR INF 260-Obj-Oriented Progr. I | 3 |  |  |  |
| Heritage OR Humanities course | 3 |  |  |  |
| MA 113 OR MAT 174 – Calculus I | 4 |  |  |  |
| Oral Communications | 3 |  |  |  |
| CIT 180 – Security Fundamentals | 3 |  |  |  |
| **Total Semester Credit Hours** | **15 - 16** |  |  |  |

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| **Fourth Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| INF Track – Data Science Option Course #3 – See List | 3 - 4 |  |  |  |
| Natural Science | 3 |  |  |  |
| Social/Behavioral  | 3 |  |  |  |
| CIT 293 – CIT Employability Skills | 1 |  |  |  |
| ENG 102 – Writing II | 3 |  |  |  |
| **Total Semester Credit Hours** | **13 - 14** |  |  |  |

***Note: 25% of Total Program Credit Hours must be earned at Bluegrass Community and Technical College.***

**Advisor Name: Advisor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Student Name: Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **Special Instructions:** |
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| **Approved Electives (if applicable)** |
| INF Track – Data Science Option Course #3: (Select one course from the list below) |
| CS 275 | Discrete Mathematics (4) |
| STA 210 | Statistics: A Force in Human Judgement (3) |
| STA 220 | Statistics (3) |
| STA 296 | Statistical Methods and Motivations (3) |
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