Faculty of Business, Law and Digital Technologies

**RECOGNITION OF PRIOR LEARNING: UNIT LEARNING OUTCOMES**

1. *Student to complete and submit this portfolio to Student Registry as soon as possible, and by the end of the fourth week of teaching at the very latest. Late applications will not normally be accepted.*
2. *Advice on the preparation of this portfolio can be obtained from the Course Leader or Unit Leader.*
3. *Please note that you should continue to study and participate in all units until Academic Services informs you of the outcome.*

**To be completed by applicant**

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| **Name:** |  |
| **Student number:** |  |
| **Course:** | **BSc (Hons) Digital & Technology Solutions Professional (BDATSF)** |
| **Pathway:** | **[Delete non-applicable - L4 Data does not have pathway]**  **Software Engineering Network Engineer Cyber Security Specialist Data Analyst** |
| **Unit(s) requesting RPL approval [Code & Title]:** |  |
| **Evidence supplied: Certificated/Experiential (Delete as appropriate) Indicate source of evidence e.g. academic transcript, unit descriptors, portfolio etc.** |  |

**Please use the Module Descriptors and the Tech Stacks to help you align your prior learning to the module delivery.**

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| **Mapping to show the learning outcomes of the units being RPL’d, against the appropriate detailed evidence.** | |
| Below are the learning outcomes from Solent’s modules (left) and those from completed modules with a previous training provider (right). A mapping between these outcomes has been provided according to the work and study that was undertaken on these modules, with the applicable Solent numbered learning outcomes in brackets at the end of each criterion.  Please complete for the module you all are applying for RPL – and delete the other rows | |
| **Solent Module Outcomes** | **Prior learning** |
| **COM411 - Problem Solving though Programming [All Pathways]** Describe a problem-solving process and its value in the computing profession as well as the wider context. Design, implement, test, and debug software solutions to meet requirements  1. Demonstrate awareness of contemporary techniques for the design, development, testing, correcting, deploying and documenting of software solutions from specifications and/or problem descriptions, using relevant standards and tools. 2. Apply analytical and critical thinking skills to systematically analyse and apply structured problem-solving techniques to computer problems. 3. Interpret and follow approaches to version and source control 4. Recognise legal, social, ethical & professional issues related to software development. |  |
| **COM412 - Introduction to Networks & Security [All Pathways]**   1. Understand and apply the principles of networking, protocols and associated technologies 2. Understand and apply the maths required to design an addressing scheme 3. Design install and configure a simple computer network using routers and switches 4. Recognise any risks or safety issues associated with the safe operation of computing and network systems 5. Recognise legal, social, ethical & professional issues related to computer networks 6. Demonstrate knowledge of information security issues, security threats, firewalls and vulnerabilities |  |
| **COM412 – Routing & Switching [Network & Cyber Pathways]**   1. Design install and configure a medium complexity computer network using routers and switches and associated network protocols. 2. Define the characteristics of LAN / VLAN / Routing protocols methods and technologies 3. Use analytical and problem-solving skills to design implement simulate test and troubleshoot computer networks 4. Plan with a thorough and organised approach how you are going to implement a working solution in a limited time. |  |
| **COM415 – Cyber Security Essentials [Network & Cyber Pathways]**   1. Recall, describe and explain the terminology and basic concepts of cyber security. 2. Describe and explain common attack techniques and sources of threat. 3. Describe and explain future trends in cyber security. 4. Describe and explain why information and cyber security are important to business and to society. 5. Illustrate and explain ways to defend against the main attack techniques. |  |
| **COM417 - Introduction to Databases [All Pathways]**   1. Explain key issues in the development and administration of relational databases and their role in modern IT systems. 2. Discuss the use of SQL functionality to create information from data. 3. Apply conceptual modelling techniques to the design and implementation of a simple database. 4. Apply enterprise-level database software tools in the development, implementation and testing of SQL-based database solutions. 5. Evaluate data using statistical techniques to provide meaningful information. 6. Describe the appropriate ethical and legal methods for data collection, usage and storage. |  |
| **COM418 - Data Analysis, Tools & Application [All Pathways]** Identify appropriate tools and techniques for data analysis, data visualisation and presentation.Carry out small-scale research, information gathering and data collection to generate knowledge to support the project with some guidance.Discuss the use of relevant data analysis tools.Collaborate in groups on projects and work on each step of the data life cycle.Summarise and present the results of data analysis to a range of stakeholders making recommendations.Communicate and summarise and present the results of data analysis to a range of stakeholders making recommendations. |  |
| **COM421 - Data Structures, Algorithms & Mathematics [All Pathways]**   1. Explain key issues in the development and administration of relational Understand and apply the computational maths required to be a software developer. 2. Distinguish between various algorithm problem solving strategies. 3. Problem-solve a range of real-world scenarios. 4. Discuss the classification of algorithms and mathematical computational problems. 5. Communicate findings using a variety of media. |  |

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| **Student signature:** |  |
| **Date:** |  |

***Note for the Academic Assessor:***

***Please assess the evidence, add your comments, sign and return the form in electronic format to****:* [*Student.Registry@solent.ac.uk*](mailto:Student.Registry@solent.ac.uk)

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| **Comments** |  |
| **Does the evidence provided indicate equivalence to the SSU unit(s) outcome(s)?** |  |
| **Academic Assessor:** |  |
| **Signature:** |  |
| **Date:** |  |

# Appendix