| Competency | Essex Graduate | Skill | Skill Level | Evidence |
|------------------------------------|---|---|----------------|--|
| <u>Professional</u> | Literacy, Communication, | Express information effectively to technical and non-technical audiences | Proficient | TOPSIS Explanation, M2/Assignment_2/individual_work |
| | Language Skills | Create documents to aid your communication (reports, diagrams, legal descriptions, plans, manuals and charts) | Aware | TOPSIS Explanation, M2/Assignment_2/individual_work |
| | Commercial Awareness | Keep current with tools of the industry, as well as emerging technology | Aware | Unit 12 Seminar, M2/Formative |
| | | Seek opportunites to improve and share knowledge of tools and technology that may improve productivity | Trained | Eurostat & EM-DAT data analysis, M2/Assignment_2/individual_work |
| | | Participate in scientific and professional organisations | Trained | Bug Bounty community |
| | | Emphasise quality, customer satisfaction and fair application of policies. | Aware | Plan: write a report concerning a found vulnerability on HackerOne and gage the response |
| | | Demonstrate familiarity with codes of conduct for the Computing field. | Trained | Will become proficient once Module: Legal is completed |
| | Subject understanding, research, critical thinking, time management | Critically analyse complex ideas in concepts in the field of Computer Science | Trained | CLD_1, CLD_2, M1/summative; CLD_1, CLD_2, M2/formative |
| | | Recognise inconsistencies and gaps in information, and search for additional information when needed | Trained | Eurostat & EM-DAT data analysis, M2/Assignment_2/individual_work |
| | | Explore complex real-world problems in a Computing context | Aware | Module: Legal |
| <u>Legal and</u> <u>Ethical</u> | Ethical Awareness | Comply with the letter and spirit of applicable laws | Trained | GDPR; Will become proficient once Module: Legal is completed |
| | | Maintain privacy and confidentiality of company, co-worker and customer information | Trained | GDPR; Will become proficient once Module: Legal is completed |
| Social (inc. Teamwork) | Cultural Awareness | Act in the best interest of the community at large - Social (Community) Responsibility | Proficient | Eurostat & EM-DAT data analysis, M2/Assignment_2/individual_work |
| | Teamwork, Leadership and Resilience, Time Management | Collaborate effectively in diverse teams to achieve team goals | Proficient | Assignment 1 & Assignment 2 group work, M2/summative/ |
| | | Meeting team objectives using teamwork skills | Proficient | Assignment 1 & Assignment 2 group work, M2/summative |
| | | Demonstrate skills in leadership and team building | Proficient | Assignment 1 & Assignment 2 group work, M2/summative |
| | | Give and receive constructive feedback | Proficient | Assignment 1 & Assignment 2 group work, M2/summative |
| | Creativity, Entrepreneurial, Problem solving, Initiative, Decision Making | Create, discuss and deliver strategies for sustainability for all stakeholders (company, community and environment) | Trained | Assignment 1 & Assignment 2, M2/summative |
| | | Able to make a decision on a complex matter/scenario using multiple sources of information | Proficient | Assignment 2 M2/summative/assignment_2 |
| <u>Technical (Data Science)</u> | IT and Digital, Numeracy | Technical skills relevant to Bug Bounty Hunting: | | |
| | | VirtualBox | Trained | Currently installed on OS; see dissertation reading list |
| | | pfSense | Aware | In progress: see dissertation reading list |
| | | Metaspoitable | Aware | In progress: see dissertation reading list In progress: see dissertation reading |
| | | Kali-Linux | Trained | list Currently installed as OS; see |
| | | Ubuntu | Proficient | dissertation reading list In progress: see dissertation reading |
| | | C/C++ | Aware | list Currently in use on OS; see |
| | | Bash | Proficient | dissertation reading list In progress: see dissertation reading |
| | | Python | Trained | list To be completed: Module 4: Software |
| | | Javascript | Aware | Software Dvelopmen; Module 6: Secure Systems Architecture |
| | | SQL/noSQL | Aware | Module 1: LCYS Codio exercises |
| | | Networking | Aware | To be completed: Module 3: Network Security; in progress: see dissertation reading list |
| | | Web App exploitation and mitigation | Aware | In progress: see dissertation reading list |
| | | Network expoitation and mitigation | Aware | To be completed: Module 3: Network Security; in progress: see dissertation reading list |
| | | API exploitation and mitigation | Aware | In progress: see dissertation reading list |
| | | Cryptography | Aware | Module 1: LCYS; in progress: see dissertation reading list In progress: see dissertation reading |
| | | Shellcoding Fuzzing | Aware Aware | list |
| | | Vulnerability Report Writing | Proficient | Assignment 1 & Assignment 2, M2/summative |
| | | Maths for Analysis | Trained | Assignment 2, M2/Assignment 2/individual work |
| Subject Application | Global Citizen, Teamwork, Leadership, Emotional Intelligence | Take into account other people's perspectives | Proficient | Assignment 1 & Assignment 2 group work, M2/summative/ |
| | | Work constructively with differences in viewpoints | Proficient | Assignment 1 & Assignment 2 group work, M2/summative/ |
| | | Actively participate in a range of community activities as an informed citizen | Expert | A lifetime of volunteering, both locally and abroad; see About Me |
| | Decision Making, Initiative, Emotional Intelligence, Ethical Awareness | Develop, articulate and clarify your personal values and ethics | Proficient | To be completed: Module 5: The Human Factor; Module 7: Principles of Digital Forensics and Cyber Law; Module 8: Research Methods and Professional Practice |
| | | | | |

Adapted from BCS guidelines and Essex graduate

Skill Level Key

Aware General understanding and basic knowledge

Trained Able to apply knowledge, able to work independently under certain conditions

Proficient Broad and in-depth knowledge, able to work independently with very little supervision

Expert Seen as a subject matter expert, able to lead and train others.