

Competency	Essex Graduate	Skill	Skill Level	Evidence
Professional	Literacy, Communication, Language Skills	Express information effectively to technical and non-technical audiences	Proficient	Presentation at conference, scientific manuscripts, writing reports at work
		Create documents to aid your communication (reports, diagrams, legal descriptions, plans, manuals and charts)	Expert	Extensive experience in data visualisation and preparing reports for diverse audiences
	Commercial Awareness	Keep current with tools of the industry, as well as emerging technology	Trained	
		Seek opportunities to improve and share knowledge of tools and technology that may improve productivity	Aware	
	Subject understanding, research, critical thinking, time management	Participate in scientific and professional organisations	Aware	
		Emphasise quality, customer satisfaction and fair application of policies.	Trained	
Legal and Ethical	Ethical Awareness	Demonstrate familiarity with codes of conduct for the Computing field.	Aware	
		Critically analyse complex ideas in concepts in the field of Computer Science	Aware	
	Cultural Awareness	Recognise inconsistencies and gaps in information, and search for additional information when needed...	Aware	
		Explore complex real-world problems in a Computing context	Trained	
	Teamwork, Leadership and Resilience, Time Management	Comply with the letter and spirit of applicable laws	Expert	
		Maintain privacy and confidentiality of company, co-worker and customer information	Expert	
Social (inc. Teamwork)	Creativity, Entrepreneurial, Problem solving, Initiative, Decision	Act in the best interest of the community at large - Social (Community) Responsibility	Expert	
		Collaborate effectively in diverse teams to achieve team goals	Proficient	
	IT and Digital, Numeracy	Meeting team objectives using teamwork skills	Proficient	
		Demonstrate skills in leadership and team building	Trained	
	Global Citizen, Teamwork, Leadership, Emotional	Give and receive constructive feedback	Trained	
		Create, discuss and deliver strategies for sustainability for all stakeholders (company, community and environment)	Trained	
Technical (Data Science)	Decision Making, Initiative, Emotional Intelligence, Ethical Awareness	Able to make a decision on a complex matter/scenario using multiple sources of information	Trained	
		Technical skills relevant to your degree programme: SQL for database querying	Aware	
	IT and Digital, Numeracy	Python Programming	Aware	
		Java	Aware	
	Subject Application	Python	Aware	
		noSQL	Proficient	
Subject Application	Decision Making, Initiative, Emotional Intelligence, Ethical Awareness	Scripting Language (Python)	Aware	
		Statistical Language (R)	Proficient	
	Global Citizen, Teamwork, Leadership, Emotional	Git - repository development and maintenance	Aware	
		Use of conferencing technologies and Moodle (VLE)	Proficient	
	Decision Making, Initiative, Emotional Intelligence, Ethical Awareness	Use of Word Processing tools and Spreadsheets	Aware	
		Effective use of e-library resources	Proficient	
Subject Application	Decision Making, Initiative, Emotional Intelligence, Ethical Awareness	Take into account other people's perspectives	Proficient	
		Work constructively with differences in viewpoints	Proficient	
	Global Citizen, Teamwork, Leadership, Emotional	Actively participate in a range of community activities as an informed citizen	Proficient	
		Develop, articulate and clarify your personal values and ethics	Proficient	
	Decision Making, Initiative, Emotional Intelligence, Ethical Awareness			

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.

This is by no means a comprehensive list of Professional skills required for your programme. It is meant to be used as a guide for your SWOT analysis/action plan as part of your Professional Development Plan (PDP).

As you progress through the course, you will discover other skills you need to develop or currently have. These can be described in further detail in your SWOT analysis/action plan.

As this is required in various modules, you may end up with different versions of this Matrix. You can collate them in your Learning Loop as part of your final PDP at the end of your programme.

Adapted from BCS guidelines and Essex graduate