

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

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 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 the programme.

Adapted from BCS guidelines and Essex graduate