

Competency	Essex Graduate
<u>Professional</u>	Literacy, Communication, Language Skills
	Commercial Awareness
	Subject understanding, research, critical thinking, time management
<u>Legal and Ethical</u>	Ethical Awareness
<u>Social (inc. Teamwork)</u>	Cultural Awareness
	Teamwork, Leadership and Resilience, Time Management
	Creativity, Entrepreneurial, Problem solving, Initiative, Decision
<u>Technical (Data Science)</u>	IT and Digital, Numeracy

<u>Subject Application</u>	Global Citizen, Teamwork, Leadership, Emotional
	Decision Making, Initiative, Emotional Intelligence, Ethical Awareness

This is by no means a comprehensive list of skills
 As you progress through the course, you will develop these skills
 As this is required in various modules, you may find it helpful to

Adapted from BCS guidelines and Essex graduate attributes

Skill	Skill Level
Express information effectively to technical and non-technical audiences	Proficient
Create documents to aid your communication (reports, diagrams, legal descriptions, plans, manuals and charts)	Proficient
Keep current with tools of the industry, as well as emerging technology	Expert
Seek opportunities to improve and share knowledge of tools and technology that may improve productivity	Proficient
Participate in scientific and professional organisations	Proficient
Emphasise quality, customer satisfaction and fair application of policies.	Proficient
Demonstrate familiarity with codes of conduct for the Computing field.	Proficient
Critically analyse complex ideas in concepts in the field of Computer Science	Proficient
Recognise inconsistencies and gaps in information, and search for additional information when needed...	Proficient
Explore complex real-world problems in a Computing context	Proficient
Comply with the letter and spirit of applicable laws	Proficient
Maintain privacy and confidentiality of company, co-worker and customer information	Expert
Act in the best interest of the community at large - Social (Community) Responsibility	Proficient
Collaborate effectively in diverse teams to achieve team goals	Proficient
Meeting team objectives using teamwork skills	Proficient
Demonstrate skills in leadership and team building	Expert
Give and receive constructive feedback	Proficient
Create, discuss and deliver strategies for sustainability for all stakeholders (company, community and environment)	Trained
Able to make a decision on a complex matter/scenario using multiple sources of information	Proficient
<i>Technical skills relevant to your degree programme:</i>	
SQL for database querying	Proficient
Python Programming	Proficient
Java	Aware
Python	Aware
noSQL	Aware
Scripting Language (Python)	Proficient
Statistical Language (R)	Aware
Gits - repository development and maintenance	Proficient
Use of conferencing technologies and Moodle (VLE)	Proficient

Use of Word Processing tools and Spreadsheets Effective use of e-library resources	Trained Proficient
Take into account other people's perspectives Work constructively with differences in viewpoints Actively participate in a range of community activities as an informed citizen	Expert Proficient Proficient
Develop, articulate and clarify your personal values and ethics	Proficient

of Professional skills required for your programme. It is meant to be used as discover other skills you need to develop or currently have. These can be described i
y end up with different versions of this Matrix. You can collate them in your Learnir

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a guide for your SWOT analysis/action plan as part of your Professional Development Plan (PDP).
Include further detail in your SWOT analysis/action plan.
Use the PDP Loop as part of your final PDP at the end of your programme.

DP).