

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 Making
<u>IT (Data Science)</u>	IT and Digital, Numeracy

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

This is by no means a comprehensive list  
 As you progress through the course, you will  
 As this is required in various modules, you may

**Adapted from BCS guidelines and Essex grad**

Skill	Skill Level
Express information effectively to technical and non-technical audiences	Trained
Create documents to aid your communication (reports, diagrams, legal descriptions, plans, manuals and charts)	Trained
Keep current with tools of the industry, as well as emerging technology	Proficient
Seek opportunities to improve and share knowledge of tools and technology that may improve productivity	Proficient
Participate in scientific and professional organisations	Trained
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	Trained
Recognise inconsistencies and gaps in information, and search for additional information when needed...	Trained
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	Expert
Collaborate effectively in diverse teams to achieve team goals	Expert
Meeting team objectives using teamwork skills	Proficient
Demonstrate skills in leadership and team building	Proficient
Give and receive constructive feedback	Proficient
Create, discuss and deliver strategies for sustainability for all stakeholders (company, community and environment)	Proficient
Able to make a decision on a complex matter/scenario using multiple sources of information	Expert
<i>Technical skills relevant to your degree programme:</i> SQL for database querying Python Programming Java Python noSQL Scripting Language (Python)	Proficient Proficient Trained Proficient Proficient Trained

Statistical Language (R)	Proficient
Gits - repository development and maintenance	Proficient
Use of conferencing technologies and Moodle (VLE)	Proficient
Use of Word Processing tools and Spreadsheets	Trained
Effective use of e-library resources	Proficient
Take into account other people's perspectives	Expert
Work constructively with differences in viewpoints	Expert
Actively participate in a range of community activities as an informed citizen	Proficient
Develop, articulate and clarify your personal values and ethics	Expert

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 by end up with different versions of this Matrix. You can collate them in your Learn

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Evidence
Research proposal presentation
Research proposal presentation
Literature review
Literature review
Peer review, Literature review
Peer review
Peer review
Literature review
Research proposal presentation, Literature review
Research proposal presentation, Literature review
Peer review
Peer review, Cambridge Analytica Case Study
Research proposal presentation
Peer review, previous group projects
Previous group projects
Previous group projects
Previous group projects, Literature review, Research proposal presentation
Research proposal presentation, Literature review
Literature review, Research proposal presentation
Previous courses
Previous courses
Previous courses
Previous courses
Previous courses
Previous courses

**Aware**

**Trained**

**Proficient**

**Expert**

Previous courses
All courses
All courses
Previous courses
All courses
Previous group projects, Literature review
Previous group projects, Literature review
Literature review
Research proposal presentation, Literature review

a guide for your SWOT analysis/action plan as part of your Profe  
 in further detail in your SWOT analysis/action plan.  
 ing Loop as part of your final PDP at the end of your programme.

### **Skill Level Key**

General understanding and basic knowledge

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

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

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

