

## COURSE SPECIFICATION DOCUMENT

<b>Academic Department:</b>	Science, Innovation & Technology
<b>Programme:</b>	SIT Programmes
<b>FHEQ Level:</b>	6
<b>Course Title:</b>	Senior Project
<b>Course Code:</b>	COMP 6110
<b>Total Hours:</b>	320
Timetabled Hours:	22.5
Supervised Learning Hours:	45
Independent Learning Hours:	252.5
<b>Credits:</b>	32 UK CATS credits 16 ECTS credits 8 US credits

### **Course Description:**

This course is a student identified project. It provides the setting for students to conceptualise, research, and propose a written brief that includes the identification and the establishment of an appropriate methodology. The instructor will facilitate the process through regularly scheduled class meetings.

The research will be an opportunity to independently plan and execute a project via a literature review, project management and execution and the project will need to follow a methodology explored in Data Science Research Methods in Computing.

### **Prerequisites:**

COMP 5301 Research Methods in Data Science plus 70 credits

**Aims and Objectives:**

By the end of this course, students will have completed a substantial project that demonstrates their employability skills in a computer science area of their interest. They will start with a project concept, conduct the necessary research necessary to write a brief, establish a methodology, complete the design, develop and evaluate. They will reflect on their work critically to identify areas of improvement in their work.

**Programme Outcomes:**

All, III, BI, II, CII, DI, II,

A detailed list of the programme outcomes are found in the Programme Specification. This is located at the archive maintained by Registry and found at:

<https://www.richmond.ac.uk/programme-and-course-specifications/>

**Learning Outcomes:**

By the end of this course, successful students should be able to:

- Plan a technical project, aware of its scope and constraints.
- Independently carry out literature review of areas relevant to the subject.
- Evaluate the ethical and sustainable consequences of their project.
- Identify a methodology appropriate to the project brief.
- Implement a methodology appropriate to the project brief.
- Design and programme a response to meet the requirements of the brief.
- Evaluate the design and program at appropriate stages of the project.
- Critically reflect on their project and its implementation.

**Indicative Content:**

- Idea generation
- Writing a technical brief
- Approaches, methodologies and methods
- Writing literature reviews
- Implementation
- Findings and analysis
- Reflection and conclusions

**Assessment:**

This course conforms to the University Assessment Norms approved at Academic Board and located at: <https://www.richmond.ac.uk/university-policies/>

**Teaching Methodology:**

This course will be delivered face to face through a combination of lectures and interactive sessions. In addition to classroom activities, there are guided learning elements that are tutor led and arranged through Blackboard. These activities can be asynchronous online sessions, flipped classrooms, set readings with discussion boards or set guest lectures for example. Set activities are monitored by the instructor to ascertain student engagement. Students are encouraged to prepare for class and to play an active part, to raise questions, following-up ideas and interact with a wide range of provided material.

**Indicative Text(s):**

Dennis, A., Wixom, B. H. and Tegarden, D. (2021) *Systems Analysis And Design: An Object–Oriented Approach with UML*. 6th edn. Hoboken, NJ: Wiley.

Greetham, B. (2019) *How to Write your Undergraduate Dissertation*. 3<sup>rd</sup> edn. London: Bloomsbury.

Vickler, A. (2021) *Java*. New Mexico: Ladoo Publishing.

**Journals/Additional Texts**

- Bassot, B., 2023. *The Reflective Practice Guide*. 2nd ed. Abingdon: Routledge.
- Bhatti, J., Corleissen, Z., Lambourne, J., Nunez, D. and Waterhouse, H., 2021. *Docs For Developers*. New York Apress.
- Cottrell, S., 2023. *Critical Thinking Skills: Effective Analysis, Argument And Reflection*. 4th ed. London: Bloomsbury.
- Hart, C., 2025. *Doing A Literature Review*. 3rd ed. London: Sage.
- Kendall, K. and Kendall, J., 2019. *Systems Analysis And Design*. 10th ed. Harlow: Pearson.

See syllabus for complete reading list.

**Change Log for this CSD:**

Nature of Change	Date Approved & Approval Body (School or AB)	Change Actioned by Registry Services
First Edition	November 2024	