

## COURSE SPECIFICATION DOCUMENT

<b>Academic School / Department:</b>	School of Liberal Arts
<b>Programme:</b>	Computer Science
<b>FHEQ Level:</b>	5
<b>Course Title:</b>	Systems Analysis and Design
<b>Course Code:</b>	DGT 5104
<b>Student Engagement Hours:</b>	120 (standard 3- credit BA course)
Lectures:	22.5
Lab:	22.5
Independent / Guided Learning:	75
<b>Semester:</b>	Fall, Spring
<b>Credits:</b>	12 UK CATS credits 6 ECTS credits 3 US credits

### **Course Description:**

This course introduces students to systems analysis and design methodologies that are used in designing complex computer systems. The course will explore in detail, the architectures, components, evaluation techniques and data management in a systems design process.

### **Prerequisites:**

GEP 4180

### **Aims and Objectives:**

By the end of this course, students will have a good understanding of examining and analysing complex information systems; use Systems Development methodologies to design complex computer systems including architecture, components and data. They will also understand the skills required to practice as a Systems Analyst.

### **Programme Outcomes:**

COMPSC: A1, A5, A6, A7, B2, B3, B4, B6, C1, C3 and C6.

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:

- Examine and understand existing computer systems
- Understand and plan Systems Development Methodologies
- Design architecture, components and data to specified requirements
- Understand evaluation methods within systems development
- Understand roles and skills required to be a Systems Analyst
- Apply methodologies to a real-world problem

**Indicative Content:**

- Systems Analysis and Design Life Cycle
- Information gathering
- Feasibility analysis
- Data oriented systems
- Service oriented systems
- Systems Development Methodologies
- Evaluation methods
- Understanding Systems Analyst Roles and Skills

**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:**

- Lectures, practical demonstrations and step-by-step software tutorials, class workshops, one-to-one tutorials.

**Indicative Text(s):**

Dennis, Alan, Barbara Wixom, and Roberta Roth. 2015. *Systems Analysis And Design : An Object–Oriented Approach with UML*. 5th ed. Hoboken, NJ: Wiley.

Kendall, K. and Kendall, J., 2019. *Systems Analysis And Design*. 10th ed. Harlow: Pearson.

**Journals**

Click here to enter text.

**Web Sites**

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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