

# CS350-30 Data Science Project

**23/24**

**Department**

Computer Science

**Level**

Undergraduate Level 3

**Module leader**

Greg Watson

**Credit value**

30

**Module duration**

22 weeks

**Assessment**

Multiple

**Study location**

University of Warwick main campus, Coventry

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## Description

### Introductory description

The 3rd year project is an extended, individual piece of work which forms a core element of the Data Science degree. Students choose a topic and find a supervisor in the summer term of their 2nd year.

This module is not available to students from other departments.

### Module aims

To provide experience of undertaking a significant individual research or development exercise from conception through to design, execution and delivery.

### Outline syllabus

This is an indicative module outline only to give an indication of the sort of topics that may be covered. Actual sessions held may differ.

Students select a project during Term 3 of the second year by submitting an outline of the proposed project and finding an academic member of staff to supervise it. A detailed project specification is submitted during the first term. A written progress report on the current state of the project is submitted later in the first term for 5% credit (combined with the specification). A

presentation of the final results of the project is given to the assessors during the second term for 15% credit. A detailed written report of the project is submitted early in the third term for 80% credit. The project is not a taught module but a major design and development exercise for the student carried out under supervision.

## **Learning outcomes**

By the end of the module, students should be able to:

- - Plan and manage a significant individual project, including detailed considerations of resources, timetabling and professional issues.
- - Build a substantial software system from design to documentation; to perform a substantial analysis of data from initial hypotheses to well-supported inferences; or to carry out a substantial research project from methodology to conclusions.
- - Present their work orally, with appropriate use of audio-visual aids and interactive demonstrations, and respond to questions effectively.
- - Produce a substantial technical report and reflective writing.

## **Indicative reading list**

Please see Talis Aspire link for most up to date list.

[View reading list on Talis Aspire](#)

## **Research element**

The entire project is based around undertaking a significant research exercise from conception through to design, execution and delivery

## **Subject specific skills**

The individual project involves consolidating, combining and applying a wide variety of subject specific skills gained in the rest of the degree course so far.

## **Transferable skills**

- Technical - Technological competence and staying current with knowledge
- Communication - Verbal, listening, writing, technical communication skills, using different medium for communicating
- Critical Thinking - Problem-solving, analysis of possible solutions etc
- Multitasking - Soft skills such as time management, organization skills etc
- Creativity - Ability to harness creative ideas and turn them into tangible and strategic products/solutions

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## **Study**

## Teaching split

Provider	Weighting
Computer Science	50%
Statistics	50%

## Study time

Type	Required
Lectures	5 sessions of 1 hour (33%)
Project supervision	20 sessions of 30 minutes (67%)
Total	15 hours

## Private study description

Private study and independent learning in this module includes:

- Research into the subject area of the project, and into available existing solutions.
- Planning and managing own work.
- Preparing for and learning from supervision meetings.
- Designing, solving, programming, testing and evaluating own software artefacts or research work.
- Preparation of the written reports and the oral presentation.
- Reflecting on feedback received on the progress report and the oral presentation.

## Costs

No further costs have been identified for this module.

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## Assessment

You do not need to pass all assessment components to pass the module.

Students can register for this module without taking any assessment.

## Assessment group A4

	Weighting	Study time
Progress report	5%	
Progress report on project totalling 2000 - 3000 words maximum.		
Oral Presentation	15%	

**Weighting****Study time**

Duration - 25 minutes.

Final Report

80%

Final report on project totalling 12000 - 18000 words maximum.

**Assessment group R3****Weighting****Study time**

Final Report

100%

Final project report totalling 12000 - 18000 words maximum.

**Feedback on assessment**

Written Specification: Oral feedback from supervisor within 2 weeks of submission. Progress Report: Feedback via Tabula within 20 university working days. Oral Presentation: Feedback via Tabula within 20 university working days.

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**Availability****Pre-requisites**

This module is not available to students from other departments.

**Courses**

This module is Core for:

- USTA-G302 Undergraduate Data Science
  - Year 3 of G302 Data Science
  - Year 3 of G302 Data Science
- Year 3 of USTA-G304 Undergraduate Data Science (MSci)
- Year 4 of USTA-G303 Undergraduate Data Science (with Intercalated Year)