# CS351-30 Computer Systems Engineering Project

## 24/25

**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 third year project is an extended, individual piece of work which forms a core element of the Computer Systems Engineering degree. Students choose a topic and find a supervisor in the summer term of their second 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 consideration of resources, health and safety, professional ethics, time management and professional issues
- - Build a computer hardware and/or software system from design to documentation 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

## 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 may be 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% |
| School of Engineering | 50% |

## Study time

| Type | Required | Optional |
| --- | --- | --- |
| Lectures | 8 sessions of 1 hour (3%) | |
| Seminars | 2 sessions of 1 hour (1%) | |
| Project supervision | 20 sessions of 30 minutes (3%) | |
| Practical classes | (0%) | 2 sessions of 2 hours |
| Online learning (independent) | 2 sessions of 1 hour (1%) | |
| Private study | 278 hours (93%) | |
| Total | 300 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 outcomes.
- Preparation of the written reports and the oral presentation.
- Reflecting on feedback received on the progress report and the oral presentation.

### Other activity description

Evaluation Day.

## 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 A5

| | Weighting | Study time |
|---|---|---|
| Progress Report | 5% | |

Progress report on project totalling 2000 - 3000 words maximum. This assessment is eligible for self-certification (extension).

| | Weighting | Study time |
|---|---|---|
| Oral Presentation/Demonstration | 15% | |

Duration - 25 minutes. This assessment is worth more than 3 CATS and is, therefore, ineligible for self-certification.

| | Weighting | Study time |
|---|---|---|
| Final Report | 80% | |

Final report on project totalling 12000 - 18000 words. This assessment is worth more than 3 CATS and is, therefore, ineligible for self-certification.

## Assessment group R4

| | Weighting | Study time |
|---|---|---|
| Resit Report | 100% | |

Final project report totalling 12000 - 18000 words. This assessment is worth more than 3 CATS and is, therefore, ineligible for self-certification.

## 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:

- Year 3 of UCSA-G406 Undergraduate Computer Systems Engineering
- Year 3 of UCSA-G408 Undergraduate Computer Systems Engineering
- Year 4 of UCSA-G407 Undergraduate Computer Systems Engineering (with Intercalated Year)

- Year 4 of UCSA-G409 Undergraduate Computer Systems Engineering (with Intercalated Year)