

Fourth Year CIS Induction (2022/23)

Prof. Crawford Revie (CS/SE Fourth Year Adviser)

Dr. Karen Renaud (CS408 - Final Year Project)

Dr. Martin Goodfellow (Undergraduate Director)

Dr. John Levine (co-Director and NSS 'Champion')

(12/09/2022)

Fourth year has a **big** impact on your final degree classification

It is essential that you let us know of any circumstances that affect your studies as soon as possible

Degree Classification

- **Honours**

- $\frac{3}{4}$ Level 4 modules, $\frac{1}{4}$ Level 3 modules
- Each level credit is the weighted mean of first attempts
- CS408 Individual Project is *Level 4* and accounts to 40 out of the 120 Level 4 credits, i.e. 25% of your degree classification!

- **MEng**

- $\frac{3}{4}$ Level 5 modules, $\frac{1}{4}$ Level 4 modules
- Each level credit weighted mean

Fourth year is different to other years

(though now that we have left behind most COVID-19 restrictions at least not as *different* as the past two!)

Academic Year

- Teaching of CIS modules will be in both Semesters 1 and 2, with the individual project (CS408) running over the full year
- Exams (where present) will take place at the end of the semester in which a module is taken
- (In earlier years, Semester 2 was exclusively dedicated to the project; now your engagement with **CS408** starts tomorrow!!)

Curriculum (1)

- Honours – 120 credits (you need them all to graduate)
 - CS408 Individual Project – 40 credits
 - CS4XX Computer Science/Software Eng. – 80 credits (that's 4 x 20 credit modules). You are awarded the credits if you pass these as a 'super-class'
 - Software Engineering students also carry the CS415 Industrial Placement – 20 credits from last year
- MEng – 140 credits (either 'pass' if you have them all, or 'may proceed' otherwise)
 - CS408 Individual Project – 40 credits
 - CS4XX Computer Science – 80 credits (that's 4 x 20 credits for 'super-class')
 - CS416 Industrial Placement 1 – 20 credits

With the exception of the project (CS408) you don't pass/fail each class *individually*, rather all four 20 credit modules are considered as a group (*'super-class'*).

To obtain the 80 'super-class' credits, your weighted mean for the four Level 4 modules must be 40% or more.

Curriculum (2)

- CIS modules available (20 credits each)
(see *MyPlace* pages for assignment/exam breakdowns)
 - **CS407** Computer Security (Semester 1)
 - **CS409** Software Architecture and Design (Semester 1)
 - **CS410** Advanced Functional Programming (Semester 1)
 - You must have passed CS316 Functional Programming to take this class
 - **MS418** Project Management (Semester 1)
 - **CS411** Theory of Computation (Semester 2)
 - **CS412** Information Access and Mining (Semester 2)
 - **CS426** Human Centred Security (Semester 2)
- For modules that have exams, these will be held in the same semester

Curriculum (3)

- CS (Hons) / MEng
 - **CS407 is compulsory**
 - Choose 3 more from those on the previous slide
- SE (Hons)
 - **CS407 and CS409 are compulsory**
 - Choose 2 more from those on the previous slide

Curriculum (4)

Adviser	Prof Crawford Revie
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Amend Provisional Curriculum

Compulsory Classes

Class	Description	Class Credit	Class Level	Semester
CS408-1-1	Individual Project	40.04		BOTH22/23
CS416-1-1	Industrial Placement 1	20.04		SEM2 22/23
*CS418-1-1	Computer Science	80.04		BOTH22/23

For CS418 Computer Science, students must take CS407 Computer Security and 60 credits to be chosen from a list of approved optional modules.

Optional/Elective Classes

CS407-1-1	Computer Security	4	SEM1 22/23
CS409-1-1	Software Architecture And Design	4	SEM1 22/23
CS412-1-1	Information Access And Mining	4	SEM2 22/23
CS426-1-1	Human-Centred Security	20.04	SEM2 22/23
Total Credits		160.0	

*This is a class group. Credits for classes within this group are not counted, only the group credit.

[Add a class](#)[Proceed](#)

We suggest that the **ideal breakdown** of modules across the two semesters is **2:2**

However, to give a little more flexibility / choice we are prepared to offer the option of a **3:1 split**, with a 'health warning' around the likely work-load in Semester 1

We strongly discourage a **1:3 split**. This structure will only be supported in exceptional circumstances. If you are in the situation where you feel that this is your only option you must email the 4th year head and also get your project supervisor to indicate that they are aware of and support this request

Check that you have the correct curriculum

Request a curriculum amendment through ***Pegasus***, any change in choices must be made before the end of the second week of the semester

CS408 – Individual Project

over to **Dr. Renaud...** (see *MyPlace* pages linked to CS408 for the slides used)

Semester 1 Timetable

	9-10	10-11	11-12	12-1	1-2	2-3	3-4	4-5
Mon							MS418	MS418
Tue	CS407	CS407	CS409	CS410 Lab		CS410	CS410 Lab	CS410 Lab
Wed								
Thur	CS409	CS410				CS409 Lab		
Fri								

Return to campus...

- After (almost) two years of largely off-campus / on-line delivery, all modules, across all classes, are moving back to the 'normal' on campus delivery model
- As such most lecture / tutorial / lab sessions will be on campus and as such you should not expect that these will be available through any on-line / hybrid access methods
- There may be additional material that is made available on-line and it may be that some one-to-one or small group interactions can be arranged using remote means such as *Zoom / Teams* meetings

Make sure that you are aware of the University policy on module assessment **lateness**

10% lateness penalty on the first 24 hours, 5% per subsequent day

Some exemptions apply (e.g. large projects, group assignments, etc.)

The academic year doesn't end after
your last exam, but on May 19th 2023

You should be available to be contacted until that date...

Never too early to think about
what are you going to do **after**
you graduate

Careers

- Career Services have created a video to which you can find a link on the 4th Year *Noticeboard* page
- Consider our award/prize sponsors
 - Bridgeall - <https://bridgeall.com/>
 - Sponsor of the Babbage Prize
 - Leidos - <https://www.leidos.com/company/global/uk-europe>
 - Sponsor of the Honour and MEng Andrew McGettrick Prizes
 - Verint - <https://www.verint.com/>
 - Sponsor of the Best Project Presentation Award

We need (ideally, new) class reps

2 for CS (Hons), SE (Hons) and MEng

1 CES / Data Analytics

A new system to facilitate this is now be in place – managed by your Student Union

See the ***StrathReps*** section of the Strathclyde Mobile App

Please be thinking about this and/or making gentle hints to some of your fellow students who you think would be good for the job.



VIP for Sustainable Development Programme

What are **Vertically Integrated Projects** for Sustainable Development?





VIP for Sustainable Development Programme

The following projects are accepting applications from
students in CIS in academic year 2022-23
see [.../ourprojects](#)



1. **Energy for Development:** developing appropriate energy solutions for the 1 billion people living without electricity – web and mobile app development and database design (contact: scott.strachan@strath.ac.uk) **Available to CIS students in years 2-4**



2. **Smart Grid Monitoring and Visualisation Platform:** Developing an open, microsecond-level insight into future low-carbon energy networks – data analytics and web development (contact: q.hong@strath.ac.uk) **Available to CIS students in years 2-4**



3. **RoVER:** Autonomous machines to support people with limited mobility – software architecture design, programming, mobile app development, simulation (contact: erfu.yang@strath.ac.uk) **Available to CIS students in years 2-4**



4. **Smart Voice:** Smart voice analysis app for sustainable health monitoring – mobile app, database and platform development (contact: gaetano.di-caterina@strath.ac.uk) **Available to CIS students in years 2-4**



VIP for Sustainable Development Programme



7. Solar Microgrids for Sustainable Development: Develop a Microgrid Performance Dashboard, in order to provide online data visualisation of key microgrid performance data, allowing a user/microgrid manager to choose what data to see with charts and visualisation (contact: aran.eales@strath.ac.uk) **Available to CIS students in years 3 and 4**



8. Community Engagement and Glasgow Children's University Project: Creation of a web-based repository tool. Education students will provide design brief, including database design, mobile app development, GUI design, data processing and visualisation. (contact: louise.logan@strath.ac.uk) **Available to CIS students in years 2-4**



9. Accelerating Minigrid Deployment for Climate Action: develop a systems level cyber-physical test bed to facilitate the testing of mini-grids in a safe environment (contact: mazheruddin.syed@strath.ac.uk) **Available to CIS year 2-3**

To find out more about **VIP4SD**, how it fits with your curriculum and the benefits of taking part, come along to our **VIP4SD Recruitment and Information Session**

Wednesday 21 September, 1pm
Royal College, RC512

Questions?