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
  • ¾ Level 4 modules, ¼ 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
  • ¾ Level 5 modules, ¼ 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)

<table>
<thead>
<tr>
<th>Adviser</th>
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<td>Prof Crawford Revie</td>
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## Amend Provisional Curriculum

### Compulsory Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
<th>Class Credit</th>
<th>Class Level</th>
<th>Semester</th>
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<tbody>
<tr>
<td>CS408-1-1</td>
<td>Individual Project</td>
<td>40.04</td>
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<td>BOTH 22/23</td>
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<tr>
<td>CS410-1-1</td>
<td>Industrial Placement 1</td>
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<td>SEM 22/23</td>
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<td>*CS418-1-1</td>
<td>Computer Science</td>
<td>80.04</td>
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<td>BOTH 22/23</td>
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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

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<th>Class</th>
<th>Description</th>
<th>Class Credit</th>
<th>Semester</th>
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<tbody>
<tr>
<td>CS407-1-1</td>
<td>Computer Security</td>
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<td>SEM 1 22/23</td>
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<tr>
<td>CS409-1-1</td>
<td>Software Architecture And Design</td>
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<td>SEM 1 22/23</td>
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<td>CS412-1-1</td>
<td>Information Access And Mining</td>
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<td>SEM 2 22/23</td>
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<tr>
<td>CS426-1-1</td>
<td>Human-Centred Security</td>
<td>20.04</td>
<td>SEM 2 22/23</td>
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**Total Credits: 160.0**

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

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<tr>
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<th>9-10</th>
<th>10-11</th>
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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?

www.strath.ac.uk/studywithus/verticallyintegratedprojectsforsustainabledevelopment/
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?