Welcome to UG3

UG3 Course Organiser
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Steve Tonneau
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THE UNIVERSITY of EDINBURGH
General taught course information:

http://web.inf.ed.ac.uk/infweb/student-services/ito or from Informatics homepage follow links to

*Students Services*→*Informatics Teaching Organisation*

UG3: follow links to *For students*→*Year 3 Handbook*, which should answer most of your general questions about UG3.

http://web.inf.ed.ac.uk/infweb/student-services/ito/students/year3
How to get help?

UG3 Course Organiser email: ug3-co@inf.ed.ac.uk
Use this email for UG3 business!

The Informatics Teaching Organisation (ITO, Appleton Tower, Level 8) can answer questions on course administrative matters. Use the Student Services Support Form for enquiries:

http://web.inf.ed.ac.uk/infweb/student-services/ito/contacts

*If in doubt about whom to ask, ask the ITO.*

You **must** regularly read your email.
This Week’s most important actions

- **Meet your Personal Tutor (PT)**
  schedule a meeting with your PT to discuss course selection if you haven’t done so already (come prepared!)

- **Course Registration**
  Done via PATH. Ask PT to register you if not pre-registered.
  http://web.inf.ed.ac.uk/infweb/student-services/ito/students/year3/course-information/registration
  **deadline: Friday 30st September 2022** (do it earlier!)

  - List of Courses in Informatics: http://course.inf.ed.ac.uk
  - Individual Course: http://course.inf.ed.ac.uk/COURSE-CODE.
The building blocks of the informatics degrees (including the combined degrees) are:

- Informatics Large Practical (ILP) (20 credits), as well as a group practical, the System Design Project (20 credits)
- the *Professional Issues* course (10 credits)
- technical courses

You will take some subset of the above, *subject to the constraints that apply to your choice of degree*.

You should take Year 3 courses (which may be level 9 or level 10)

It is your responsibility to check the Degree Program Table and ensure your course choice meets your degree requirements!

http://www.drps.ed.ac.uk/21-22/dpt/drps_inf.htm
Course selection

- Please check the DRPS http://www.drps.ed.ac.uk/22-23/ first for timetable clashes, pre-requisites, location, etc. this is your responsibility!

- Think ahead: check the prerequisites for fourth year courses you may want to take next year.


- Most of all, look for topics that interest you; you are more likely to do well at these.
Course selection

If you require more information about a specific course:

- Course Survey Reports
  http://www.inf.ed.ac.uk/admin/ITO/course-survey-reports/
- Contact the course lecturer by e-mail in the first instance.
- Check the course’s webpage from previous year for material
- Attend the first lecture
Assessment

- Examinations, coursework and projects are all taken into account, with weights depending on the course (see Course Descriptors for each course).

- In the case of Honours courses, a combined mark is carried forward to be used together with the final Honours year assessment in awarding the appropriate class of degree.

- Third year mark given as average of all your third year courses, weighted according to the number of credits they are worth. For the 4 year Bachelors degrees, it counts for one half of the final degree. For the 5 year Masters degree it counts for 20% of the final degree (years 4 and 5 count 40% each).
All courses assessed following the CMS:

You must get familiar with the fact that 70+ means excellent!

<table>
<thead>
<tr>
<th>Grade</th>
<th>Mark</th>
<th>Degree award (Honours or Postgraduate)</th>
<th>Description</th>
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</thead>
</table>
| A1    | 90-100 | 1st class or MSc with distinction  | Excellent
Outstanding in every respect, the work is well beyond the level expected of a competent student at their level of study. The work should meet the criteria for an A2 grade and should also evidence a clear understanding of the limits of the state of knowledge, and their consequen ces, for the topic at hand. |
| A2    | 80-89 | 1st class or MSc with distinction   | Excellent
Outstanding in some respects, the work is often beyond what is expected of a competent student at their level of study. Demonstrates that the student is actively extending their knowledge and capacity well beyond required materials and making new connections independently; for example, by showing a strong grasp of a range of related materials that are optional or not directly provided, or by demonstrating unusual creativity, depth of analysis, or synthesis with other areas of study. |
| A3    | 70-79 | 1st class or MSc with distinction | Excellent
Very good or excellent in most respects, the work is what might be expected of a very competent student. It indicates that the student has an excellent grasp of the required materials for the course, and may have demonstrated some limited knowledge of or fluency with additional optional materials, if provided. |
| B     | 60-69 | 2(i) or MSc with merit             | Very Good
Good or very good in most respects, the work displays thorough mastery of the relevant learning outcomes. |
Exams

Usually most exams are held in April/May for year 3 (except for visiting students).

- More time to revise in April/May
- Time in December dedicated to project work (e.g. Large Practical)

Details on course index page [https://course.inf.ed.ac.uk/](https://course.inf.ed.ac.uk/). Some courses will have a December diet!
Late Coursework

5% per day late, up to seven days (for most courses). After that late submissions receive a 0 mark!

http://web.inf.ed.ac.uk/infweb/student-services/ito/students/year3/assessment

Late submissions will only be accepted without penalty if you have a good reason and you strictly follow the procedure below:

• Submission extensions must be requested before the deadline
• Do not contact course lecturers or the ITO for requesting extensions.
• Extensions must be requested using an extension form:
  https://www.ed.ac.uk/student-administration/extensions-special-circumstances
Extensions: Definition of Good Reason

See Undergraduate Year 3 Handbook for details. Briefly:

“Good reason” for an extension means something that would prevent a reasonably competent, organised, and conscientious student from being able to submit on time. Examples include:

- Significant illness.
- Serious personal problems.
- Interviews/selection procedures, in some circumstances.

Non-examples include anything you could have planned for or avoided: difficult clusters of deadlines, attending social events, the demands of any job you undertake during semester, last-minute computer problems (unless it prevents electronic submission and it is on the Informatics system), loss of work, last-minute traffic delays, etc.
Plagiarism: presentation of another persons work as your own, without proper acknowledgement of the source, with or without the creators permission, intentionally or unintentionally.

Collusion: unauthorised and unattributed collaboration with other students in a piece of assessed work.

Some generic guidelines include, **but are not limited to:**

- For *individual* coursework you must work entirely on your own; students collaborating is forbidden *unless authorised by the lecturer.*
- You may use verbatim material from *published or authorised sources,* but you must use proper quotations and acknowledge the source of the material, including open source code.
- You may re-phrase material from *published or authorised sources,* but you must acknowledge the source of the original material.
• Regulations and guidelines concerning such issues as use of computing equipment, conduct of degree examinations, plagiarism, harassment, etc., are collected at http://www.ed.ac.uk/academic-services/staff/discipline/academic-misconduct

• Also, read the documents pointed to from the Undergraduate Year 3 Handbook.

• It is your responsibility to make yourself aware of these regulations.
Informatics Feedback Pledge

- **You will know what feedback you will receive.** Feedback for coursework will be advertised with deadline for submission and feedback.
- **You will receive feedback on time as publicised.** Within three weeks max, usually within two. Where we know it takes longer, you will know how long before you submit.
- **We are committed to ensuring that you receive useful feedback.** Where we fail, you can use any channel to point this out (lecturers, ITO, year reps, Year Organiser etc.). The sooner we know the faster we can act.
- **We will listen to your feedback needs.** We will respond to every complaint or suggestion, as getting this right is important for us and for you. A dedicated Feedback Officer will handle these issues.
Issues & Feedback

- Issues and complaints affecting your UG3 course should be brought to my attention in the first instance. Note that all issues and complaints will be dealt with as much as possible anonymously.

- You may take your issues up a level to the Director of Teaching (inf-dot@ed.ac.uk) if not satisfied.

- General feedback is also appreciated at any time, but you will also have an opportunity at the end of the year to provide more detailed feedback in hindsight.

- Lecturers & TAs spend a lot of effort designing and teaching courses → Teaching Awards

  https://www.eusa.ed.ac.uk/representation/campaigns/teachingawards/
We need Class Representatives, ideally including one from each of the more popular joint degrees. Duties:

- Being a point of contact for any suggestions/complaints.
- Attend weekly meetings with DoT, DDoT and CO.

All about being a student rep
http://web.inf.ed.ac.uk/infweb/student-services/ito/students/year3/student-support/reps

If you are interested please e-mail me (ug3-co@inf.ed.ac.uk)
Third year is much more demanding than second year.

- You will be required to study and perform multiple tasks at once: see Time Management advice in the Handbook.
- Course lecturers set their own coursework schedule: be prepared for not only overlapping coursework but also multiple deadlines close in time to each other.
- Third year courses are more advanced, thus, more “difficult”.
- Some courses may require additional skills (e.g., using a different programming language), so be prepared to do extra work if necessary.
Third Year Compared with Second Year

Think twice about paid employment, trips away from Edinburgh, etc., and do not procrastinate.
Welcome to UG3

UG3 Course Organiser

Steve Tonneau

email: ug3-co@inf.ed.ac.uk
About MOB (INFR10085)

- **Visual Perception**
  - Camera Principles
  - Deep Neural Networks (DNN)
  - Object detection, semantic segmentation

- **Localization and Mapping**
  - Bayesian Filters
  - Lidar Mapping
  - GPS based localization

- **Motion Planning & Control**
  - Mission planning
  - Local behavior planning
  - Feedback control

We will demystify the secret weapons behind the Tesla autonomous vehicles, one module at a time.
The differences between MOB and IVR

A completely different course with all contents re-designed and changed (nearly 100%).

Outdated contents in IVR are NOT in MOB and this course will cover ongoing and cutting-edge methods, devices and use case of robots, such as the autonomous vehicles.

New delivery methods. In addition to guest lectures by industry partners, we also make some topics as drop-in sessions (e.g., ROS programming) to balance the interest and course workload of you.

Much lighter coursework (15-20 hrs in total) and only require the usage of Python.
Should I choose Software Testing?

Questions to ask yourself in making a decision

Course Organiser: Stuart Anderson

soa@ed.ac.uk
Things to do

• Have a look at the **course description** in PATH – this is up to date and differs from last year.

• Have a look at the **draft coursework description** in LEARN. This is a draft, but it is close to final. You can find it under **Assessment**.

• Look at the reading list in LEARN. This will be augmented with a week-by-week listing but it covers the main texts. You can find it under **Library Resources**.
Some Questions to Ask Yourself

• Is Software Testing a compulsory course for me?  If YES, then you don’t have much choice.
• Do you like 100% coursework courses?  If YES, then you might like Software Testing.  If NO, then beware!!
• Are you interested in how software gets developed?  If it’s NO, then you might be bored.
• Are you happy to do some programming?  If it’s NO, then you might be unhappy.
• Do you have some smallish bit of software (or something you are about to develop) that you’d like to test?  If it’s YES, then you could do some of the testing as part of the course.  If its NO, then we can supply something.
• Would you like to produce something you can show to an employer?  If it’s YES, then you get an opportunity.