Welcome talk
MSc in Advanced Computing
MSc in Computer Science
2014-15

Steve Gregory
1. General
2. Units
3. Today
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>MS50:</td>
<td>CS Conversion</td>
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<td>MS51:</td>
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Steve Gregory
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<tr>
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<th>Instructor</th>
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<tbody>
<tr>
<td>MS50</td>
<td>CS Conversion</td>
<td>Oliver Ray</td>
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<tr>
<td>MS51</td>
<td>Machine Learning, Data Mining, &amp; HPC</td>
<td>Simon Hollis</td>
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Advanced Computing MSc

Programme codes:
- MS51
- MS52
- MS53
- MS56
## Some statistics
### (Advanced Computing)

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Information

Email:
• All important announcements sent to your UoB email address. Check often.

Dept. website:
www.cs.bris.ac.uk/Teaching/conversion/
www.cs.bris.ac.uk/Teaching/advanced/
• Secure parts need your UoB password.

SAFE website (explained tomorrow).
Help

Admin:
• Contact Antonina (2.19 MVB)
  Antonina.Timofejeva@bristol.ac.uk

Academic:
• Contact your programme director, who also acts as your personal tutor

Other:
• MSc senior tutor
• Head of Dept.
Meetings with programme directors

MS50 (Conversion):
– Thursday 10-10:30am in 3.31 (WMB)

MS51-56 (Advanced):
– Wednesday 12-1pm in the Central Design Office (CDO), Queen’s Building
– Thursday 10-11am in 3.14 Merchant Venturers Building (MVB)
1. General
2. Units
3. Today
Units

Each MSc programme (course) contains several units (modules, courses).

E.g., MS52 contains:

- COMS30121 (10CP)
- COMSM2202 (20CP)
- etc.

Number of credit points (total 180CP)
Units

Each MSc *programme* (*course*) contains several *units* (*modules, courses*).

E.g., MS52 contains:
- COMS30121 (10CP)
- COMSM2202 (20CP)
- etc.

Level
Units for part-time students

• See your programme director this week to decide which units you register on this year.
Choosing options (MS50)

• MS50 – MSc Computer Science

• This programme has a set curriculum with no options.
Programming test (MS51-56)

- For Advanced Computing students there will be a programming test to determine your level of programming knowledge.
- MS51 students may take either C test or Java test.
- MS52, MS53, MS56 students must take C test.
Programming test (MS51-56)

• The outcome will affect your options
  – If we judge your programming skills to be weak, we will require you to take a 20 credit point unit “Programming in C” in first semester.
  – If your programming skills are sufficient, your option choice will be unaffected and you will not be allowed to take the Programming in C unit.
Choosing options (MS51-56)

• YOU need to choose your options!
• *On Wednesday 24\textsuperscript{th} September, you will be asked to enter these into our computer system.*
• The deadline for completing sign-up will be Friday 26\textsuperscript{th} at 12pm.
• If you have not entered your options by Friday 26\textsuperscript{th} at 12pm, default options will be automatically assigned for you, so that you can start class on Monday 29\textsuperscript{th}. 
Options on Advanced MSc Programmes

- **MS51 – MSc in Advanced Computing (Machine Learning, Data Mining and High Performance Computing)**
  - 70 credit points of options.
- With the following restrictions:
  - You **must take 5 options** from the following list (each counts as 10 credit points):
    - EMATM0004 Computational Genomics and Bioinformatics Algorithms
    - COMSM0010 Cloud Computing
    - COMS30121 Image Processing and Computer Vision
    - COMS30106 Artificial Intelligence and Logic Programming *(recommended)*
    - COMSM0012 Robotics Systems PG *(recommended)*
    - COMS30003 Computational Bioinformatics *(recommended)*
    - COMS30127 Computational Neuroscience
    - COMSM0104 Web Technologies
    - COMSM2001 Server Software *(recommended)*
  - You **must also take 20 credit points of options** from any units beginning “COMSM” or “COMS3” (may include those shown above)
  - In total, **you cannot take more than 30 credit points of units starting “COMS3”**
Options on Advanced MSc Programmes

• MS52 – MSc in Advanced Computing (Creative Technology)
  – 30 credit points of options
  – From any units starting with the code “COMSM”

• Recommended option:
  – MS52: COMSM2006 Algorithmic and Economic Aspects of the Internet
Options on Advanced MSc Programmes

• MS53 – MSc in Advanced Computing (Internet Technologies with Security)
  – 30 credit points of options
  – From any units starting with the code “COMS3” or “COMSM”
  – Only 10 credit points of options may be chosen from “COMS3”

• Recommended option:
  – COMS35101 High Performance Computing
Options on Advanced MSc Programmes

• MS56 – MSc in Advanced Computing
  – 100 credit points of options
  – From any units starting with the code “COMS3” or “COMSM”
  – Only 30 credit points of options may be chosen from “COMS3”
Reminder: recommended options

• These are recommended options for the MS51, MS52 & MS53 programmes:

• **MS51:**
  – COMS30106 Artificial Intelligence and Logic Programming
  – COMSM0012 Robotic Systems
  – COMS30003 Computational Bioinformatics
  – COMSM2001 Server Software

• **MS52:** COMSM2006 Algorithmic and Economic Aspects of the Internet

• **MS53:** COMS35101 High Performance Computing
Further information

• When choosing your options, pay attention to **WHEN** they are taught.
  – You need to balance your work equally between the first and second semesters.
  – Remember that you all have compulsory units in your programmes to include in your calculation.
  – You should not exceed 70 credit points of taught units per semester (60 is ideal)

• Each unit in the department has a student limit.
  – It is unlikely, but possible that one or more of your options does not have capacity to take you.
  – We will do our best to ensure that all recommended choices are available to students on their programmes.
  – But, in case you are unlucky, please have a backup choice in mind.
Help!?

• Confused about the rules? Wondering about what units to take? Need advice?

• There will be two help sessions this week, where you can meet the Advanced Computing programme director – Dr Simon Hollis to chat informally and ask questions before you make your decisions
  – **Wednesday 12-1pm** in the Central Design Office (CDO), Queen’s Building
  – **Thursday 10-11am** in 3.14 Merchant Venturers Building (MVB)
Options on Advanced MSc Programmes

- Each Advanced MSc programme has options, but each has different rules.

- For your information, here is the full list of CS options that are available at M-level:

  - COMSM0006 Sustainability, Technology and Business
  - COMSM0007 Cryptography B
  - COMSM0009 Interactive Devices
  - COMSM0010 Cloud Computing
  - COMSM0011 Individual Project: Research Proposal
  - COMSM0012 Robotics Systems PG
  - COMSM0013 Animation Production
  - COMSM0014 Creative Technology Project
  - COMSM0015 Advanced Quantum Information Theory
  - COMSM0103 Object Oriented Programming with Java
  - COMSM0104 Web Technologies
  - COMSM0109 Advanced Computer Architecture
  - COMSM0111 Individual Project: Implementation
  - COMSM0121 Individual Project: Business Plan
  - COMSM0125 Fault Tolerant Computing and VLSI Testing
  - COMSM0130 Individual Project
  - COMSM1201 Programming in C
  - COMSM1211 Programming in C
  - COMSM1302 Overview of Computer Architecture
  - COMSM1401 Software Engineering and Group Project
  - COMSM1500 Systems Security
  - COMSM2001 Server Software
  - COMSM2006 Algorithmic and Economic Aspects of the Internet
  - COMSM2010 Computational Molecular Biology and Bioinformatics
  - COMSM2127 Computational Neuroscience
  - COMSM2202 Research Skills
  - COMSM3100 MSc Advanced Project
  - COMSM3201 MSc Project Computer Science
  - COMSM4111 Robotic Systems
1. General
2. Units
3. Today
Today’s schedule 1

15:00-17:00 in 2.11(MV):

- Linux tutorial (only if you’re not familiar with Linux).
- Ask Sion if you have problems logging in.
Today’s schedule 2

17:00-18:00 in 2.11: C/Java test

- For **Advanced Computing** students.
- C test is for MS51/52/53/56 students.
- Java test is for MS51 students only.
- After completing test (45 minutes max): ask **lab supervisor** to sign your test, then give it to **me**.
Right now

- If unfamiliar with Linux, do tutorial in 2.11 at 15:00 or 16:00.
- Otherwise, if you are on Advanced Computing, go to 2.11 by 17:00 for programming test.
- If you have any questions, ask me.
- I will be available in 3.21 (or email).