Welcome talk
MSc in Advanced Computing
2016-17

Steve Gregory
1. General
2. Units
3. Today
<table>
<thead>
<tr>
<th>Course</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>MS50: CS Conversion</td>
<td>Oliver Ray</td>
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<tr>
<td>MS51: Machine Learning, Data Mining, &amp; HPC</td>
<td>Steve Gregory</td>
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<tr>
<td>MS52: Creative Technology</td>
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<tr>
<td>MS56: Advanced Computing</td>
<td>Steve Gregory</td>
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1989
Foundations of AI

1992
CS (conversion)

1995
Adv Comp
- Foundations of AI
- Global Comp & MM

1997
Adv Comp
- Global Comp & MM

1998
Adv Comp
- Machine Learning & DM
- Global Comp & MM

2015
Adv Comp
- ML, DM, HPC
- Creative
- Adv Comp
Structure

University

Engineering Faculty

Queens School

MV School


Eng Math Dept.

Computer Science Dept.

Graduate Team

Advanced Computing

Creative

ML, DM, HPC

Adv Comp

Conversion
Advanced Computing MSc

ML, DM, & HPC
MS51

Creative Technology
MS52

Advanced Comp
MS56
Advanced Computing MSc

Programme codes:
- MS51
- MS52
- 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:
wwwa.fen.bris.ac.uk
• Used for coursework and marks/results.
Help

Admin:
• Contact Emily (2.19a MVB):
  emily.grundy@bristol.ac.uk

Academic:
• Contact your programme director, who also acts as your personal tutor:
  steve@cs.bris.ac.uk  csxor@bristol.ac.uk

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

**MS50 (Conversion):**
3.29 Merchant Venturers Building (MVB)

**MS51/52/56 (Advanced):**
3.21 Merchant Venturers Building (MVB)

We will be available, especially:
- Today until 16:00
- Thursday 13:00-16:00

Just drop in.
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.
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.
Units

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

E.g., MS52 contains:

• COMS30121 (10CP) in TB1
• COMSM2202 (20CP) in TB2
• etc.

TB = Semester!
Choosing options (MS50)

- MS50 – MSc Computer Science

- This programme has a set curriculum with no options.
Programming test (MS51/52/56)

- For Advanced Computing students there is NO programming test to determine your level of programming knowledge.

- Advanced Computing students should be proficient in C or C++ programming already.

- If you are not confident in your C proficiency, you can attend some or all COMSM1201 (Programming in C) lectures, not for credit, if there is space.
Choosing options (MS51/52/56)

• YOU need to choose your options!
• Soon you will be asked to enter these into our computer system (SAFE).
• If you have not entered your options by the deadline, default options will be automatically assigned for you, so that you can start attending on Monday 26th.
Options on Advanced MSc Programmes

MS51 – MSc in Advanced Computing (Machine Learning, Data Mining and High Performance Computing)

- 70 credit points (CP) of options.

- You must take 50 CP from the following list:
  - COMS30004 High Performance Computing 20 TB1
  - COMS30121 Image Processing and Computer Vision 10 TB1
  - COMSM0305 Learning in Autonomous Systems 10 TB1
  - COMS30003 Computational Bioinformatics 10 TB2
  - COMS30106 Artificial Intelligence with Logic Programming 10 TB2
  - COMSM0012 Robotics Systems PG 10 TB2
  - COMSM2127 Computational Neuroscience 10 TB2
  - EMATM0004 Computational Genomics and Bioinformatics 10 TB2
  - EMATM0029 Bio-Inspired Artificial Intelligence 10 TB2
Options on Advanced MSc Programmes

• You must also take 20 credit points of options from a list which includes the above units and these:
  – COMSM0010 Cloud Computing 10 TB1
  – COMSM2006 Algorithmic Aspects of the Internet 10 TB1
  – COMSM0104 Web Technologies 10 TB2
  – COMSM2001 Server Software 10 TB2

• 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 these units:
  – COMSM0009  Interactive Devices  10  TB1
  – COMSM0010  Cloud Computing  10  TB1
  – COMSM0305  Learning in Autonomous Systems  10  TB1
  – COMSM2006  Algorithmic Aspects of the Internet  10  TB1
  – COMSM0012  Robotics Systems PG  10  TB2
  – COMSM2127  Computational Neuroscience  10  TB2
  – EMATM0029  Bio-Inspired Artificial Intelligence  10  TB2
Options on Advanced MSc Programmes

MS56—MSc in Advanced Computing

- This combines MS51 and MS52
- 100 credit points of options
  - From any unit in MS51 or MS52
  - Only 30 credit points of options may be chosen from “COMS3”
Further information

When choosing your options, pay attention to **WHEN** they are taught.

- Balance your work equally between the first and second semesters.
- Remember that you 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)
Further information

Each unit in the department has a student limit.

- It is 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?
• Just drop in to 3.21 (MVB) this week:
  – Today until 16:00
  – Thursday 13:00-16:00
• Or email steve@cs.bris.ac.uk any time.
1. General
2. Units
3. Next
Tomorrow’s schedule

9:30-11:30 in 2.11(MV):

• Linux tutorial (only if you’re not familiar with Linux).

• Ask Sion if you have problems logging in.
Right now

• If you have any questions or problems, ask us.

• We will be available in 3.21/3.29 until 16:00 today (or email any time).

• If unfamiliar with Linux, do tutorial in 2.11 tomorrow at 9:30 or 10:30.