



University
of Glasgow

School of
Computing Science

Conversion Masters Programmes
**Information Technology,
Software Development
and
IT Cyber Security
Handbook 2019-20**

Disclaimer

Although the information contained in this document is believed to be accurate, changes in circumstances may require modifications to the content and delivery of some courses during the year.

Revised July 2019

1. Overview of Masters Programmes

The school offers 3 one-year taught Masters conversion programmes:

| | | |
|---------|--|--|
| MSc IT+ | MSc(Information Technology) MSc(Software Development) MSc(IT Cyber Security) | Designed for graduates who have good undergraduate degrees in subjects other than core computing, and who wish to acquire advanced IT skills |
|---------|--|--|

All Masters programmes include elective courses. All electives are worth 10 credits.

The official degree structure of all programmes can be found at: <http://www.gla.ac.uk/postgraduate/taught/>

Student Support and Enquires Hours: Monday - Friday: 09:00 – 16:30hrs
Room F161, School of Computing Science, Lilybank Gardens

Mrs Gail Reat

PGT Administrator

Face to Face Masters queries 13:00-16:30hrs.

Outwith these hours please email Gail.Reat@Glasgow.ac.uk

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MSc IT+ Programmes Director

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Information Technology – G560-5200

Information Technology is everywhere. Graduates equipped with advanced IT skills enjoy a significant advantage in pursuing their careers, whatever their degree subjects. Our MSc (Information Technology) programme teaches non-computing graduates the skills needed to develop substantial software application systems, including web-based applications and information systems.

| Week number | Masters in Information Technology | | | |
|--------------|--|---|---|--|
| 0 | Enrolment Meeting | | | |
| 1 | Preparation courses | | | |
| 2-11 | Programming COMPSCI4039 (20 credits) | Database Theory and Application COMPSCI5076 (10 credits) | Systems and Networks COMPSCI4043 (10 credits) | Enterprise Cyber Security COMPSCI5077 (15 Credits) |
| 12-13 | Coursework | | | |
| | Christmas Break: 3 weeks | | | |
| 17-21 | MSc IT+ Team Project COMPSCI5074 (10 credits) | Software Engineering COMPSCI5059 (15 credits) | 4 optional courses (each 10 credits) | |
| 22-26 | | | | |
| 27 | Coursework | | | |
| | Spring Break: 3 weeks | | | |
| 31-36 | Revision and Exams | | | |
| 37-38 | Post Exam Break | | | |
| 39-51 | MSc IT+ Development Project (60 credits) COMPSCI5018P | | | |

Software Development – G532-5200

If you have a good undergraduate degree in a subject other than computing and you want to learn how to develop high-quality software, then our MSc Software Development programme is designed for you.

| Week number | Masters in Software Development | | | | |
|--------------|--|---|--|--|---|
| 0 | Enrolment Meeting | | | | |
| 1 | Preparation courses | | | | |
| 2-11 | Programming COMPSCI4039 (20 credits) | Database Theory and Application COMPSCI5076 (10 credits) | Systems and Networks COMPSCI4043 (10 credits) | Enterprise Cyber Security COMPSCI5077 (15 Credits) | |
| 12-13 | Coursework | | | | |
| | Christmas Break: 3 weeks | | | | |
| 17-21 | MSc IT+ Team Project COMPSCI5074 (10 credits) | Advanced Programming COMPSCI5002 (10 credits) | Algorithms & Data Structures COMPSCI5004 (10 credits) | Software Engineering COMPSCI5059 (15 credits) | 2 optional courses (each 10 credits) |
| 22-26 | | | | | |
| 27 | Coursework | | | | |
| | Spring Break: 3 weeks | | | | |
| 31-36 | Revision and Exams | | | | |
| 37-38 | Post Exam Break | | | | |
| 39-51 | MSc IT+ Development Project (60 credits) COMPSCI5018P | | | | |

IT Cyber Security – I101-5200

If you have a good undergraduate degree in a subject other than computing and you want to learn about Cyber Security as well as how to develop high-quality software, then our MSc IT Cyber Security programme is designed for you.

| Week number | Masters in IT Cyber Security | | | |
|--------------|--|---|--|--|
| 0 | Enrolment Meeting | | | |
| 1 | Preparation courses | | | |
| 2-11 | Programming COMPSCI4039 (20 credits) | Database Theory and Application COMPSCI5076 (10 credits) | Systems and Networks COMPSCI4043 (10 credits) | Enterprise Cyber Security COMPSCI5077 (15 Credits) |
| 12-13 | Coursework | | | |
| | Christmas Break: 3 weeks | | | |
| 17-21 | MSc IT+ Team Project COMPSCI5074 (10 credits) | Software Engineering COMPSCI5059 (15 credits) | 4 optional courses (each 10 credits) | |
| 22-26 | | | | |
| 27 | Coursework | | | |
| | Spring Break: 3 weeks | | | |
| 31-36 | Revision and Exams | | | |
| 37-38 | Post Exam Break | | | |
| 39-51 | MSc IT+ Development Project (60 credits) COMPSCI5018P | | | |

2. Elective courses for the MSc Conversion programmes

| Course | Level | Semester | MSc IT | MSc SD | MSc ITCS |
|---|-------|----------|--------|------------|----------|
| Advanced Programming COMPSCI5002 | M | 2 | ✓ | compulsory | ✗ |
| Algorithms and Data Structures COMPSCI5004 | M | 2 | ✓ | compulsory | ✗ |
| Cyber Security Fundamentals COMPSCI5063 | M | 2 | ✓ | ✓ | ✓ |
| HCI Design and Evaluation COMPSCI5057 | M | 2 | ✓ | ✓ | ✗ |
| Human-Centred Security COMPSCI5060 | M | 2 | ✓ | ✓ | ✓ |
| Internet Technology COMPSCI5012 | M | 2 | ✓ | ✓ | ✗ |
| Safety Critical Systems COMPSCI5068 | M | 2 | ✓ | ✓ | ✓ |
| Cyber System Forensics COMPSCI5080 | M | 2 | ✓ | ✓ | ✓ |
| Cryptography and Secure Development COMPSCI5079 | M | 2 | ✓ | ✓ | ✓ |

Notes:

- no elective courses are possible on the MSc IT CS programme.
- Due to an unavoidable timetable clash, students may not take both Internet Technology and Cyber System Forensics.

The link to all Computing Science courses can be found at:

<https://www.gla.ac.uk/coursecatalogue/courselist/?code=REG30200000&name=School+of+Computing+Science>

PLEASE CHECK MOODLE/MYCAMPUS FOR UPDATES!

3. Possible Curriculum Changes

Under certain circumstances, the following programme/course changes will be permitted, with the permission of the relevant Programme Director.

- **Changes between MSc IT, MSc ITCS and MSc SD**

Students on all three of these programs take identical courses during the first semester. Students on the MSc SD program must take Advanced Programming and Algorithms and Data Structures in the second semester, while these courses are optional for MSc IT students and cannot be taken by MSc ITCS students.

Students who are interested in changing programmes should contact the programme director before the end of semester 1. The decision is at the discretion of the programme director and will normally depend upon performance in first semester. If you are unsure, speak with your advisor of studies or the programme director.