



THE UNIVERSITY OF LANCASTER

It is hereby certified that

Benjamin Ryan Goldsworthy

has been duly admitted to the degree of

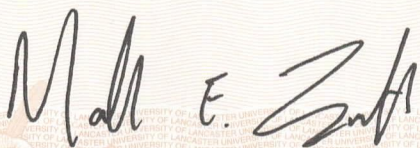
Master of Science

in

Cyber Security

with

Merit



Vice Chancellor



Chief Administrative Officer
and Secretary

November, 2018

32098584-00123157-1



00118891

**Record of Learning and Achievement**

Name of Student
HESA Reference
Qualification
Scheme of Study

Benjamin Ryan Goldsworthy
1411230717315
Master of Science
Cyber Security

Date of Birth **08/03/1996**

Period of Study **01 Oct 2017 - 30 Sep 2018**
Date of Award **13 Nov 2018**

The courses studied and the grades obtained are shown below:

Course	Year	Title	Credit	Exam	Other	Overall
LL.M5230	17/18	Introduction to Law	15.0		75.0	75.0
PPR.432	17/18	Security and Conflict in the Digital Age	15.0		65.0	65.0
SCC.420	17/18	Mobile-based auditing of the DEMOS 2 e-voting system	60.0		56.0	56.0
SCC.439	17/18	Network and Systems Security	15.0		63.0	63.0
SCC.441	17/18	Information System Security Management	15.0		76.0	76.0
SCC.442	17/18	Information System Penetration and Countermeasures	15.0		69.0	69.0
SCC.443	17/18	Information System Forensic Investigation	15.0		59.0	59.0
SCC.444	17/18	Information System Risk Management	15.0		74.0	74.0
SOCL491	17/18	Cybercrime	15.0		63.0	63.0

Degree Result
Full average

Pass with Merit
64.00

13/11/2018

Ian Denny

HEAD OF STUDENT REGISTRY



00115296

HIGHER EDUCATION ACHIEVEMENT REPORT (Diploma Supplement)

This Higher Education Achievement Report incorporates the model developed by the European Commission, Council of Europe and UNESCO/CEPES for the Diploma Supplement.

The purpose of the supplement is to provide sufficient recognition of qualifications (diplomas, degrees, certificates etc). It is designed to provide a description of the nature, level, context and status of the studies that were pursued and successfully completed by the individual named on the original qualifications to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why. In hard copy format this Higher Education Achievement Report is printed in black ink on paper watermarked with the crest of the University and carries the official University hologram. It is not valid unless in this format.

1 INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

1.1 Family name(s):

Goldsworthy

1.2 Given name(s):

Benjamin Ryan

1.3 Date of birth (day/month/year):

8 March 1996

1.4 Student identification number:

32098584

2 INFORMATION IDENTIFYING THE QUALIFICATION

2.1 Name of qualification and title conferred:

Master of Science

2.2 Main field(s) of study for the qualification:

Cyber Security

2.3 Name and status of awarding institution:

Lancaster University

2.4 Name and status of delivering institution:

University of Lancaster

2.5 Language(s) of instruction/examination:

English

3 INFORMATION ON THE LEVEL OF THE QUALIFICATION

3.1 Level of qualification:

Masters (2nd cycle degree)

3.2 Official length of programme:

12 month(s) full-time study

3.3 Access requirements(s):

Entrants are normally required to have obtained a good (2:2 or above) Honours degree, or equivalent.

4 INFORMATION ON THE CONTENTS AND RESULTS GAINED

4.1 Mode of study:

Full Time

4.2 Programme requirements:

Please see next page(s)

4.3 Programme details:

Please see next page(s)

4.4 Grading scheme and, if available, grade distribution guidance:

Classification reflects the performance over the whole degree programme. All marks are based on a 100% point scale. Pass mark of 50%

4.5 Overall classification of the qualification:

Pass with Merit

4.6 Date of Award:

13 November 2018

5 INFORMATION ON THE FUNCTION OF THE QUALIFICATION

5.1 Access to further study:

Access to postgraduate research (3rd Cycle)

5.2 Professional status (if applicable):

Not Applicable

6 ADDITIONAL INFORMATION

6.1 Additional information:

Please see next pages(s) if applicable

6.2 Further information sources:

www.lancaster.ac.uk

Benjamin Ryan Goldsworthy 32098584



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4.2 Programme requirements:

Graduates from this programme will be able to:

- * Employ practical experience of cutting edge cyber security techniques in research and industry. This outcome is facilitated through the program modules study and through the dissertation projects within a relevant research group or industry partners.
- * Demonstrate a wide range of practical research skills related to cyber security, including an ability to apply appropriate security technologies to an IT infrastructure and undertake experimental analysis of cyber security techniques.
- * Possess a solid understanding of the technical and human elements of the field of Information System Security.
- * Develop original solutions to problems in cyber security, which incentivise self-motivation, autonomous thinking and professional planning.
- * Develop knowledge and evaluate new technologies and applications of theory in various fields of cyber security.
- * Apply the principles of forensic analysis to a range of electronic devices.
- * Develop systems and prototypes of conceptual software, and be able to reason and trade off characteristics such as development time, robustness and performance within given bounds.
- * Demonstrate awareness of relevant social, legal and professional issues. This includes - but is not limited to - the ethical and professional conduct expected of a professional in this area; codes of conduct in relevant UK and international professional societies; and, legal issues related to the discipline.
- * Plan and develop their future careers and foster a research culture in their work environments.

Exit qualifications: For students who do not meet the requirements of the Masters programme, but who have successfully been awarded a minimum of 120 credits of taught modules, an exit qualification of Postgraduate Diploma in Cyber Security will be awarded. For this award, students will be able to demonstrate intended learning outcomes 5 to 9 of the Masters programme. For students who do not meet the requirements of the Masters programme but who have successfully been awarded a minimum of 60 credits of taught modules, an exit qualification of Postgraduate Certificate in Cyber Security will be awarded. For this award, students will be able to demonstrate aspects of intended learning outcomes 5-9 of the Masters programme.



4.3 Programme details (e.g. modules or units studied), and the individual grades/marks/credits obtained:

Courses studied and the grades obtained:

Course	Year	Title	Grade	Percentage Mark	Credit	ECTS Credit
LANCAWARD	17/18	Lancaster Award			0.0	0.0
PPR.432	17/18	Security and Conflict in the Digital Age	Merit	65%	15.0	8.0
LL.M5230	17/18	Introduction to Law	Distinction	75%	15.0	8.0
SOCL491	17/18	Cybercrime	Merit	63%	15.0	8.0
SCC.444	17/18	Information System Risk Management	Distinction	74%	15.0	8.0
SCC.443	17/18	Information System Forensic Investigation	Pass	59%	15.0	8.0
SCC.441	17/18	Information System Security Management	Distinction	76%	15.0	8.0
SCC.442	17/18	Information System Penetration and Countermeasures	Merit	69%	15.0	8.0
SCC.439	17/18	Network and Systems Security	Merit	63%	15.0	8.0
SCC.420	17/18	MSc Dissertation	Pass	56%	60.0	30.0

Audited courses:

6.1 Additional information:

6.1.3 Digital Skills Certificate

17/18

The Digital Skills Certificate has been awarded as a result of the successful completion of extra-curricular online training and assessments; enhancing the student's ability to make the best use of digital technologies. They have provided evidence of competencies across five areas: Digital Creation, Innovation and Scholarship; Information, Data and Media Literacies; Digital Identity and Wellbeing; Communication, Collaboration and Participation; and Digital Learning and Self Development.

7 CERTIFICATION OF THE SUPPLEMENT

7.1 Date:

13 November 2018

7.2 Signature:



Ian Denny

7.3 Capacity:

Head of Student Registry

