**People and Security (COMP0056)**

**Description**

**Aims:**
- Students will be able to specify usability criteria that a security mechanism has to meet to be workable for end-user groups and work contexts;
- Know the strengths and weaknesses of particular security mechanisms in practice, and hence be able to choose and configure mechanisms for best performance in a given organisational context;
- Be able to specify accompanying measures (policies, training, monitoring and ensuring compliance) that a user organisation needs to implement to ensure long-term security in practice;

**Learning outcomes:**
On successful completion of the module, a student will be able to:
1. apply their knowledge of human factors and behavioural economics to specify and implement workable and effective security solutions, and manage security behaviour;

**Content:**
Understanding Human Behaviour in Security:
- Systems thinking and design;
- Usability: Users, tasks and context;
- Performance and Workload;
- Productivity and performance vs risk and security;
Economics:
- Humans and Risk;
- Risk Biases and Decision-making;
- Friction and the Compliance Budget;
Authentication:
- Authentication tasks: enrolment, verification, recovery;
- Knowledge-based authentication: Passwords, phrases, PINs, graphical Authentication;
- Token-based authentication;
- Biometric authentication: physical and behavioural;
- Continuous authentication via devices, sensors, and biometrics;

**Key information**

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<th>2019/20</th>
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<td><strong>Credit value</strong></td>
<td>15 (150 study hours)</td>
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<td><strong>Delivery</strong></td>
<td>PGT L7, Campus-based</td>
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<td><strong>Tutor</strong></td>
<td>Dr Simon Parkin</td>
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**Assessment**

**Find out more**

For more information about the department, programmes, relevant open days and to browse other modules, visit [ucl.ac.uk](http://ucl.ac.uk)

**Disclaimer:** All information correct as of June 2019. Please note that aspects of the module may be subject to change. UCL will make best efforts to inform applicants of major changes.
- Payment systems and transaction authentication;
- Access control:
  - Different access control models, organisational impact and user workload;
- Attacks and attackers (and how to counter them):
  - Types of attacks (Guessing, observation, capture and coercion);
  - Types of attackers: motivation, resources risk propensity;
  - Social engineering attacks;
  - Insider attacks;
- Identity:
  - Online identity vs identity in the physical world;
  - National identity vs socially constructed systems;
  - Digital footprints, shadows and superidentities;
  - Identity as currency;
- Privacy:
  - Data protection and user perception;
  - Delivering privacy: Privacy by Design, the PST model;
  - Surveillance, dataveillance and sousveillance online and in the physical world (CCTV);
- Trust:
  - Model of trust in online interaction;
  - Incentivising trustworthy behaviour;
  - Reputation systems and their application in online systems;
- Influencing user behaviour:
  - Security awareness, education and training;
  - User interface design and influencing techniques;
  - Values, attitudes, security culture and security behaviour;
  - Responsibility and communication;

**Requisites:**

In order to be eligible to select this module, a student must be registered on a programme for which it is a formally-approved option or elective choice AND must have (i) knowledge of basic information security principles; and (ii) good essay-writing skills.

Students not enrolled on MSc Information Security must attend an interview with the Module Leader.
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Term Term 1
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