

CCA RESULTS - RANKED BY IMPORTANCE

	IMP	IMP	DIFF	DIFF	TIME	TIME
	μ	σ	μ	σ	μ	σ
Integrity	10	0	4.4	1.1	10	0
Confidentiality	10	0	2.9	1.1	9.9	0.5
Ethics	9.9	0.2	5.4	0.9	9.9	0.3
Authentication	9.8	0.4	4.1	1.3	9.9	0.3
Privacy	9.5	0.6	6.5	1.1	9.1	1.1
Access control	9.4	0.6	5.7	1	8.5	1
Social engineering	9.4	0.8	5.4	0.9	9.3	0.8
Trust, including rooting trust in hardware	9.1	0.3	6.2	1.2	8.8	0.7
Insider threat	9.1	0.5	5.1	1.4	9.2	0.8
Secure coding, designing secure code	8.9	0.9	7.6	1.1	8.1	0.9
Operating system security	8.8	0.5	7.1	0.9	7.9	0.7
Manage risks	8.8	0.6	7	0.9	9.1	0.4
Assess vulnerabilities	8.8	0.7	6.8	1	8.4	1
Ability and desire to keep up-to-date	8.8	1.3	5.9	1.2	8.3	1
Communication skills	8.8	1.5	5.4	0.9	9.2	1.3
Analyze threats	8.6	0.6	6.9	0.9	8.5	0.8
Assured operations	8.5	0.9	5.9	1.2	8.5	1
Well-known attacks, including man-in-the-middle, replay, traffic analysis, denial of service	8.4	0.7	5.5	1.2	7.7	1
Countermeasures, including physical security, defense-in-depth	8.4	0.5	5.3	0.8	8.2	0.4
Adversarial modelling	8.2	1	7.2	0.8	8.2	1.1
Balance competing objectives (e.g., anonymity vs. accountability, privacy vs. national security)	8.1	0.8	6.8	0.7	8.1	0.9
Usable security	8.1	1.1	6.6	0.9	7.4	0.8
Design & analyze secure networks	8	0.9	7.5	0.8	7.6	0.9
Legal aspects	8	1.2	6.2	1	7.2	1.4
Forensics	7.9	0.8	7.5	0.8	7.5	1.1
Attention to detail	7.9	1.4	6.4	1.3	9.1	0.9
Apply symmetric and asymmetric encryption	7.9	1	5.8	1.8	7.6	1.2
Operational security	7.8	1	5.7	0.7	7.5	1.2
Cyberphysical systems	7.7	1	7	1.2	7.4	0.8
Wireless security	7.7	1.4	6.4	1.1	6.4	1.1
Perform security assessments	7.6	1	6.9	1.1	7.1	1.4
Manage keys, including with public-key infrastructure	7.6	0.9	6.8	1	7.2	1.3
Virtualization and cloud security	7.6	0.9	6.8	1	6.9	1.3
Economic aspects of cybersecurity	7.6	0.8	6	1.3	8.2	1
Healthy skepticism and paranoia	7.6	1.4	5.9	1.3	8.4	1
Ability to identify and apply best practices	7.6	1	5.4	0.9	7.1	1.1
Penetration testing	7.5	1	6.6	1.3	6.8	1.3
Incident analysis	7.5	0.6	5.9	1.2	7.4	0.9
Software vulnerability analysis	7.4	0.7	7.1	1.1	7.3	0.8
Secure development lifecycle	7.4	0.8	5.2	0.9	7.4	0.8
Ability to identify and use modern tools	7.3	0.6	4.6	0.9	5.9	1.5
Select and apply appropriate cryptographic primitives	7.2	0.8	7.2	1.3	7.1	1
Response & recovery	7.2	0.8	5.8	0.7	6.8	0.9
Auditing	7.2	1.1	5	0.8	6.9	0.9
Collaboration skills	7.2	1.6	4.6	0.8	7.8	1.6
Design secure protocols	7.1	1.6	8.6	0.6	7.6	1.3
Formulate and evaluate security policies	7	0.9	6.3	1.2	7.1	1.1
Malware analysis	6.9	0.8	7.5	0.9	6.6	0.9
Scripting languages, systems programming, low-level programming	6.9	1.1	6.5	1.1	6.5	0.8
Design & analyze secure web applications	6.9	1.4	6.2	1.1	6.5	1.2
International aspects of cybersecurity	6.9	1.5	6	1.1	6.8	1.6
Applications of homomorphic encryption and private information retrieval	4.9	1.1	8	1.4	5.9	0.9
0-knowledge protocols	4.4	1.1	8.2	0.9	5.8	1

CCA RESULTS - RANKED BY DIFFICULTY

	IMP	IMP	DIFF	DIFF	TIME	TIME
	μ	σ	μ	σ	μ	σ
Design secure protocols	7.1	1.6	8.6	0.6	7.6	1.3
0-knowledge protocols	4.4	1.1	8.2	0.9	5.8	1
Applications of homomorphic encryption and private information retrieval	4.9	1.1	8	1.4	5.9	0.9
Secure coding, designing secure code	8.9	0.9	7.6	1.1	8.1	0.9
Forensics	7.9	0.8	7.5	0.8	7.5	1.1
Design & analyze secure networks	8	0.9	7.5	0.8	7.6	0.9
Malware analysis	6.9	0.8	7.5	0.9	6.6	0.9
Adversarial modelling	8.2	1	7.2	0.8	8.2	1.1
Select and apply appropriate cryptographic primitives	7.2	0.8	7.2	1.3	7.1	1
Operating system security	8.8	0.5	7.1	0.9	7.9	0.7
Software vulnerability analysis	7.4	0.7	7.1	1.1	7.3	0.8
Manage risks	8.8	0.6	7	0.9	9.1	0.4
Cyberphysical systems	7.7	1	7	1.2	7.4	0.8
Analyze threats	8.6	0.6	6.9	0.9	8.5	0.8
Perform security assessments	7.6	1	6.9	1.1	7.1	1.4
Assess vulnerabilities	8.8	0.7	6.8	1	8.4	1
Manage keys, including with public-key infrastructure	7.6	0.9	6.8	1	7.2	1.3
Virtualization and cloud security	7.6	0.9	6.8	1	6.9	1.3
Balance competing objectives (e.g., anonymity vs. accountability, privacy vs. national security)	8.1	0.8	6.8	0.7	8.1	0.9
Penetration testing	7.5	1	6.6	1.3	6.8	1.3
Usable security	8.1	1.1	6.6	0.9	7.4	0.8
Scripting languages, systems programming, low-level programming	6.9	1.1	6.5	1.1	6.5	0.8
Privacy	9.5	0.6	6.5	1.1	9.1	1.1
Attention to detail	7.9	1.4	6.4	1.3	9.1	0.9
Wireless security	7.7	1.4	6.4	1.1	6.4	1.1
Formulate and evaluate security policies	7	0.9	6.3	1.2	7.1	1.1
Trust, including rooting trust in hardware	9.1	0.3	6.2	1.2	8.8	0.7
Design & analyze secure web applications	6.9	1.4	6.2	1.1	6.5	1.2
Legal aspects	8	1.2	6.2	1	7.2	1.4
Economic aspects of cybersecurity	7.6	0.8	6	1.3	8.2	1
International aspects of cybersecurity	6.9	1.5	6	1.1	6.8	1.6
Assured operations	8.5	0.9	5.9	1.2	8.5	1
Healthy skepticism and paranoia	7.6	1.4	5.9	1.3	8.4	1
Incident analysis	7.5	0.6	5.9	1.2	7.4	0.9
Ability and desire to keep up-to-date	8.8	1.3	5.9	1.2	8.3	1
Apply symmetric and asymmetric encryption	7.9	1	5.8	1.8	7.6	1.2
Response & recovery	7.2	0.8	5.8	0.7	6.8	0.9
Access control	9.4	0.6	5.7	1	8.5	1
Operational security	7.8	1	5.7	0.7	7.5	1.2
Well-known attacks, including man-in-the-middle, replay, traffic analysis, denial of service	8.4	0.7	5.5	1.2	7.7	1
Social engineering	9.4	0.8	5.4	0.9	9.3	0.8
Ethics	9.9	0.2	5.4	0.9	9.9	0.3
Communication skills	8.8	1.5	5.4	0.9	9.2	1.3
Ability to identify and apply best practices	7.6	1	5.4	0.9	7.1	1.1
Countermeasures, including physical security, defense-in-depth	8.4	0.5	5.3	0.8	8.2	0.4
Secure development lifecycle	7.4	0.8	5.2	0.9	7.4	0.8
Insider threat	9.1	0.5	5.1	1.4	9.2	0.8
Auditing	7.2	1.1	5	0.8	6.9	0.9
Collaboration skills	7.2	1.6	4.6	0.8	7.8	1.6
Ability to identify and use modern tools	7.3	0.6	4.6	0.9	5.9	1.5
Integrity	10	0	4.4	1.1	10	0
Authentication	9.8	0.4	4.1	1.3	9.9	0.3
Confidentiality	10	0	2.9	1.1	9.9	0.5

CCA RESULTS - RANKED BY TIMELESSNESS

	IMP	IMP	DIFF	DIFF	TIME	TIME
	μ	σ	μ	σ	μ	σ
Integrity	10	0	4.4	1.1	10	0
Confidentiality	10	0	2.9	1.1	9.9	0.5
Ethics	9.9	0.2	5.4	0.9	9.9	0.3
Authentication	9.8	0.4	4.1	1.3	9.9	0.3
Social engineering	9.4	0.8	5.4	0.9	9.3	0.8
Insider threat	9.1	0.5	5.1	1.4	9.2	0.8
Communication skills	8.8	1.5	5.4	0.9	9.2	1.3
Privacy	9.5	0.6	6.5	1.1	9.1	1.1
Manage risks	8.8	0.6	7	0.9	9.1	0.4
Attention to detail	7.9	1.4	6.4	1.3	9.1	0.9
Trust, including rooting trust in hardware	9.1	0.3	6.2	1.2	8.8	0.7
Access control	9.4	0.6	5.7	1	8.5	1
Analyze threats	8.6	0.6	6.9	0.9	8.5	0.8
Assured operations	8.5	0.9	5.9	1.2	8.5	1
Assess vulnerabilities	8.8	0.7	6.8	1	8.4	1
Healthy skepticism and paranoia	7.6	1.4	5.9	1.3	8.4	1
Ability and desire to keep up-to-date	8.8	1.3	5.9	1.2	8.3	1
Countermeasures, including physical security, defense-in-depth	8.4	0.5	5.3	0.8	8.2	0.4
Adversarial modelling	8.2	1	7.2	0.8	8.2	1.1
Economic aspects of cybersecurity	7.6	0.8	6	1.3	8.2	1
Secure coding, designing secure code	8.9	0.9	7.6	1.1	8.1	0.9
Balance competing objectives (e.g., anonymity vs. accountability, privacy vs. national security)	8.1	0.8	6.8	0.7	8.1	0.9
Operating system security	8.8	0.5	7.1	0.9	7.9	0.7
Collaboration skills	7.2	1.6	4.6	0.8	7.8	1.6
Well-known attacks, including man-in-the-middle, replay, traffic analysis, denial of service	8.4	0.7	5.5	1.2	7.7	1
Design & analyze secure networks	8	0.9	7.5	0.8	7.6	0.9
Apply symmetric and asymmetric encryption	7.9	1	5.8	1.8	7.6	1.2
Design secure protocols	7.1	1.6	8.6	0.6	7.6	1.3
Forensics	7.9	0.8	7.5	0.8	7.5	1.1
Operational security	7.8	1	5.7	0.7	7.5	1.2
Usable security	8.1	1.1	6.6	0.9	7.4	0.8
Cyberphysical systems	7.7	1	7	1.2	7.4	0.8
Incident analysis	7.5	0.6	5.9	1.2	7.4	0.9
Secure development lifecycle	7.4	0.8	5.2	0.9	7.4	0.8
Software vulnerability analysis	7.4	0.7	7.1	1.1	7.3	0.8
Legal aspects	8	1.2	6.2	1	7.2	1.4
Manage keys, including with public-key infrastructure	7.6	0.9	6.8	1	7.2	1.3
Perform security assessments	7.6	1	6.9	1.1	7.1	1.4
Ability to identify and apply best practices	7.6	1	5.4	0.9	7.1	1.1
Select and apply appropriate cryptographic primitives	7.2	0.8	7.2	1.3	7.1	1
Formulate and evaluate security policies	7	0.9	6.3	1.2	7.1	1.1
Virtualization and cloud security	7.6	0.9	6.8	1	6.9	1.3
Auditing	7.2	1.1	5	0.8	6.9	0.9
Penetration testing	7.5	1	6.6	1.3	6.8	1.3
Response & recovery	7.2	0.8	5.8	0.7	6.8	0.9
International aspects of cybersecurity	6.9	1.5	6	1.1	6.8	1.6
Malware analysis	6.9	0.8	7.5	0.9	6.6	0.9
Scripting languages, systems programming, low-level programming	6.9	1.1	6.5	1.1	6.5	0.8
Design & analyze secure web applications	6.9	1.4	6.2	1.1	6.5	1.2
Wireless security	7.7	1.4	6.4	1.1	6.4	1.1
Ability to identify and use modern tools	7.3	0.6	4.6	0.9	5.9	1.5
Applications of homomorphic encryption and private information retrieval	4.9	1.1	8	1.4	5.9	0.9
0-knowledge protocols	4.4	1.1	8.2	0.9	5.8	1