Sentinel

An Exciting Opportunity to Join the 2026 Sec 3 Intake!

DEFENDING OUR DIGITAL WAY OF LIFE

Prerequisites: What We're Looking For

We're looking for students who:

- Love problem-solving and have a strong interest in the digital/cybersecurity world.

- Demonstrate a good foundation in basic web development (e.g. HTML, CSS, JavaScript) with exposure to backend web frameworks (e.g. Express.js) and common web vulnerabilities but it's okay if you're not an expert yet!

- Have a basic understanding of computer networking, and it's a bonus if you've used tools like Wireshark, Nmap, or Netcat.

- Are ready to commit to the programme's activities and excited to learn with others.

What you'll be learning

Year 3 Curriculum Overview

Introduction to Databases	Learn database fundamentals, SQL, and CRUD operations.
	Gain hands-on experience with SQLite and MySQL, including schema management and custom functions.
Frontend Development with React	Explore React basics, components, and state management.
	Build multi-page apps using React Router in a practical development environment.
Introduction to Web Security	Understand common web threats and best practices for security.
	Learn authentication, prevent SQL injection and XSS, and practice ethical penetration testing.

Year 4 Curriculum Overview

Security Tools	Overview of key security tools including firewalls, IDS, and IPS.
	Learn their roles in detecting and preventing network attacks.
Computer Networks & Penetration Testing	Review network fundamentals and explore penetration testing methods.
	Understand spoofing attacks and strategies for network forensics.
Address Resolution Protocol	Learn ARP basics and related attack techniques like spoofing and poisoning.
	Study defences against MitM and DoS attacks with real-world case analysis.

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Programme Schedule

- Programme activities are mostly conducted physically (in-person) during school holiday periods and on some Saturdays during the school terms.

- There will also be some self-directed online learning where students will learn at their own time.
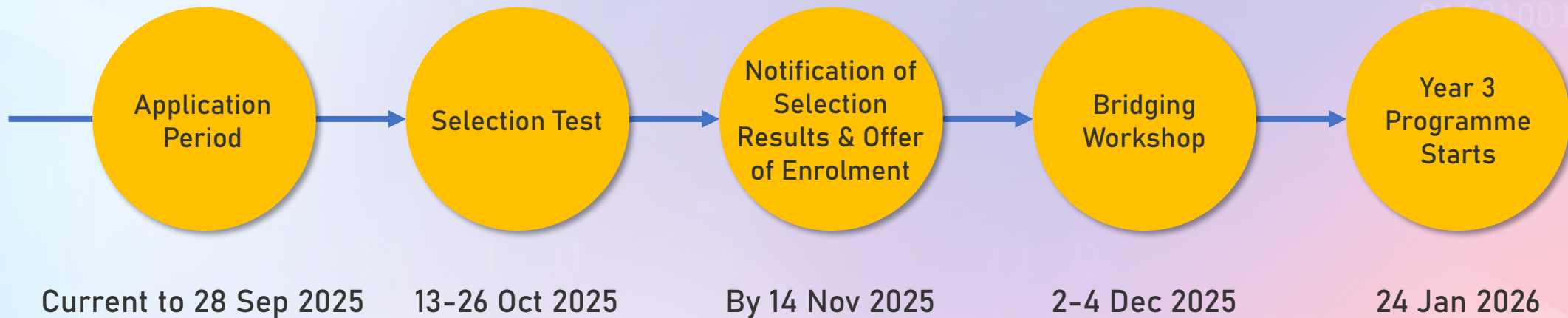
- No activities during school hours.

Programme Schedule

YEAR 3		
Date	Time	Activity
24 Jan 2026	9am to 12pm	Saturday Class
07 Feb 2026	9am to 12pm	Saturday Class
21 Feb 2026	9am to 12pm	Saturday Class
14 Mar 2026	9am to 12pm	Saturday Class
11 Apr 2026	9am to 12pm	Saturday Class
25 Apr 2026	9am to 12pm	Saturday Class
30 May 2026	8.30am to 12.30pm	Saturday Class
05 Jun 2026	9am to 5pm	Workshop 1
06 Jun 2026	9am to 1pm	
04 Jul 2026	9am to 12pm	Saturday Class
22 Aug 2026	9am to 12pm	Saturday Class
05 Sep 2026	8.30am to 12.30pm	Saturday Class
19–20 Nov 2026	9am to 5pm	Workshop 2

YEAR 4		
Date	Time	Activity
09 Jan 2027	9am to 12pm	Saturday Class
30 Jan 2027	9am to 12pm	Saturday Class
20 Feb 2027	8.30am to 12.30pm	Saturday Class
20 Mar 2027	9am to 1pm	Sentinel Challenge

1. The above schedules are subject to change.

2. The activities will be held at Sentinel Programme regional centres, including Singapore Polytechnic, Nanyang Polytechnic and Nanyang Girls' High School. Students are expected to travel to the venues independently.

3. Apart from the physical sessions shown in the above schedule, there will also be some self-directed online learning that students will be expected to complete on their own.

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Join the 2026 Sec 3 Intake

- **Should you join?**
  If you're passionate about the digital world, have a keen interest in cybersecurity, and are ready to dive deeper into these fields, this is your chance!

- **How long is the programme?**
  New students who join in Sec 3 will complete the secondary-level programme by the first Semester of Sec 4.

- **How to Apply?**
  Individual students can apply directly through the Sentinel website. Students are encouraged to apply early to avoid any technical issues.

- **What's the enrolment process?**
  Students will be required to take a 2-hour online selection test. Those who are selected will be enrolled into the programme and will be required to complete a bridging workshop before joining the Secondary 3 cohort in 2026.