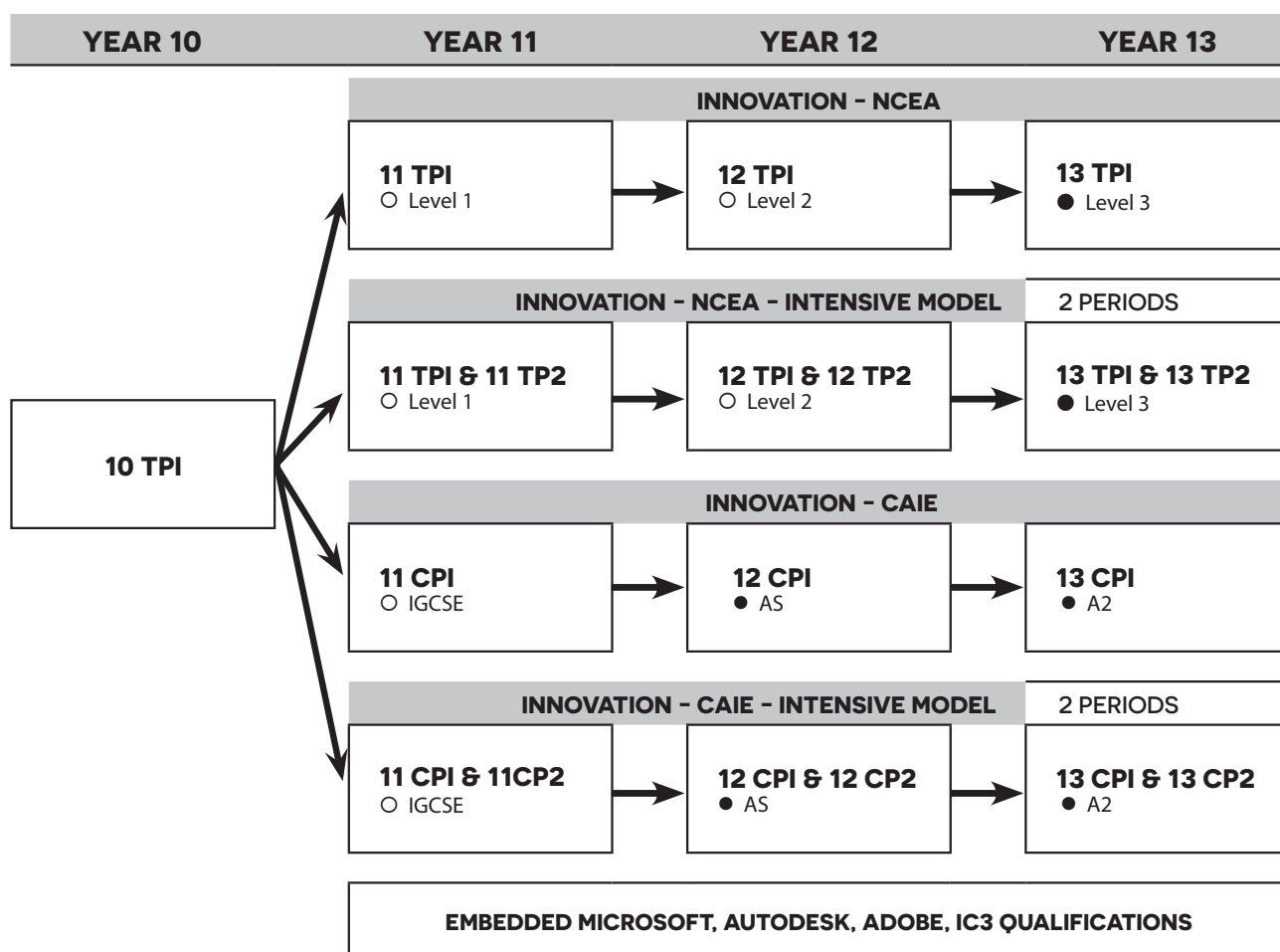


# ACADEMIC PROGRAMME SUPPLEMENT - INNOVATION PROGRAMME

This supplement replaces the senior Innovation Programme courses listed on pages 87-89 in the Academic Programme 2019.

## INNOVATION PROGRAMME PATHWAYS



## SENIOR INNOVATION PROGRAMME – INTENSIVE MODEL

For 2019, two additional pathways have been established. Innovation programme courses for NCEA and CAIE now include an “Innovation Intensive” model. These pathways offer students, a deeper and more powerful career/tertiary spring board of industry and interdisciplinary learning through “double-period” lessons. These “double-periods” mean students will gain highly sought-after expertise as they will be immersed in investigation, design, modelling, prototyping to produce real industry and capstone projects. In addition, this also provides students with a significant credit programme gained through extended learning experiences upon new and top-tier industry platforms and the scope to gain the premium industry qualifications which will set them apart in employability and/or tertiary academic pursuits.

### CORE COURSES

□ A reduced credit course covering the core aspects of the full course. There is sufficient coverage in Year 11 & 12 core courses to allow progress into the full course at the next level. Students taking these courses can meet the university entrance requirement by the end of Year 13.

### ENTRY COURSES

△ Relevant courses for students who are working towards gaining NCEA level 1 or 2. Students taking these courses can meet the entry requirements of some tertiary courses, apprenticeships or their first employment.

# SENIOR INNOVATION PROGRAMME – NCEA – INTENSIVE PROGRAMME

## YEAR 11 – INTENSIVE NCEA

### 11 TPI & 11 TP2

**Entry Requirements:** Merit or excellence for all (and associated Microsoft Office Specialist, IC3, Adobe or Autodesk qualifications) work at Year 10 TPI; and or, by negotiation with the department Director.

CREDITS AVAILABLE			LEVEL 1 <input type="radio"/>
Internal Achievement Standards <b>30+</b>	External Achievement Standards <b>0</b>	Internal Unit Standards <b>0</b>	<b>Total Credits (TBC) 30+</b>

**Course Description:** Students will be able to develop a comprehensive and demonstrable understanding of societal, organisational and/or consumer factors involved in cutting edge digital technology. Run as authentic business activities and engaging industry participants, will use a variety of industry-standard software applications to produce and showcase a range of digital solutions to real industrial and/or societal problems. Students, through this exciting opportunity, gain multiple internationally benchmarked industry qualifications from IC3, Microsoft Office, Pearson, Microsoft Technology Associate, Adobe and Autodesk. These qualifications, embedded into capstone projects, validate a student's proficiency with digital productivity, information-management, infrastructure, creativity, design and or modelling solutions.

**Leads to:** 12 TP1 and 12 TP2.

## YEAR 12 – INTENSIVE NCEA

### 12 TPI & 12 TP2

**Entry Requirements:** Min 16 Credits Level 1: with merit or excellence for all (and the associated Microsoft Office Specialist, Pearson, IC3, Adobe or Autodesk qualifications) work at Year 11 TPI - and or, by negotiation with the department Director.

CREDITS AVAILABLE			LEVEL 2 <input type="radio"/>
Internal Achievement Standards <b>32+</b>	External Achievement Standards <b>0</b>	Internal Unit Standards <b>0</b>	<b>Total Credits (TBC) 32+</b>

**Course Description:** Students build on the content and experience gained in the Year 11 Innovation Programme. Run as real entrepreneurial projects, students develop in-depth knowledge and skill in interpreting, being immersed in and proving, how emergent digital technology, cloud and or mobility impact on society, business and enterprises. Topics covered will include data systems/management, systems/agile projects, design/modelling, Networks/Cyber Security, Digital Media and Software Development – all using top professional industry packages. Learning in the course will take the form of students operating a "business solutions practice", in being immersed in, driving and operating capstone projects, with engagement with industry participants – which can be used as valuable 'proven experience' for tertiary, job and/or career applications.

**Leads to:** 13 TP1 & 13 TP2, tertiary qualifications and occupations in the many industries including ICT.

## YEAR 13 – INTENSIVE NCEA

### 13 TPI & 13TP2

*The achievement standards in this course are University approved.*

**Entry Requirements:** Min 18 credits at Level 2: with merit or excellence for all (and the associated Microsoft Office Specialist, MTA, Pearson, MOS MASTER, IC3, Adobe and or Autodesk qualifications gained through project work at Year 12 TPI) and or, by negotiation with the department Director.

CREDITS AVAILABLE			LEVEL 3 <input checked="" type="radio"/>
Internal Achievement Standards <b>34+</b>	External Achievement Standards <b>0</b>	Internal Unit Standards <b>0</b>	<b>Total Credits (TBC) 30 – 40+</b>

**Course Description:** With special "double" periods, this course prepares students for the real world. The programme expands a student's in-depth knowledge and skill in interpreting, proving and demonstrating how emerging digital technology, cloud and or mobility impact on society, business and or enterprises. Run as a "solutions practice", these students gain deep expertise, as if they were assigned commercially, on data systems/management, systems/agile projects, Networks/Cyber Security, design/modelling, Digital Media or Software Development. As well as gaining highly sought-after industry certifications to validate their market-ready expertise, students undertake formal project management to support the development, implementation and presentation of end-end, multi-discipline, capstone projects of several industry projects. This validates their employability prospects in an increasingly demanding and digital world.

**Leads to:** Highly relevant for ICT, Software Development, Multimedia Development, Finance, Internet and Telecommunications, networking and any occupation that uses a computer. Internship and or Tertiary education opportunities.

#### FULL COURSES

- A full academic course preparing students comprehensively for study at the next level in the subject.
- A full academic course at Level 3 or AS that prepares students comprehensively for further study at tertiary level or A2 Level. Results from these subjects can be used to measure quality of achievement for restricted entry courses at university. These courses typically include Level 3 UE Approved Standards.

# SENIOR INNOVATION PROGRAMME – CAIE – INTENSIVE PROGRAMME

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## YEAR 11 – INTENSIVE (CAIE IGCSE)

**11 CPI & 11 CP2** ○

**Entry Requirements:** Course completion with A4 Average, merit or excellence prior learning (& or full IC3, Microsoft Office Specialist qualifications, Adobe Certified Associate(s) and or Autodesk Certified User) at Year 10 TPI. Or, by negotiation with the department Director.

**Course Description:** For students who seek extended ICT development time with the Cambridge pathway, “double” period learning is also available with IGCE. This facility empowers students to learn through a more intensive learning opportunity where they develop a comprehensive understanding of societal, organisational and/or consumer factors involving digital technology. In using a variety of industry standard software applications, to produce a range of digital information, sound/video, graphics, animation and programming solutions, students gain multiple industry qualifications from IC3, Microsoft Office, Microsoft Technology Associate, Pearson, Adobe and Autodesk.

**Leads to:** 12CP1 & 12CP2

## YEAR 12 – INTENSIVE (CAIE AS)

**12 CPI & 12 CP2** ●

**Entry Requirements:** IGCSE Course completion with C+ (and associated Microsoft Office Specialist, IC3, Adobe or Autodesk qualifications). Or, only by negotiation with the department Director.

**Course Description:** As students become effective and discerning users of ICT, this programme helps students to advance a broad range of ICT project, practical skills, and knowledge. Students build on the content and experience gained in the IGCSE Programme. They develop in-depth knowledge and skill, gaining industry certifications and proven experience through projects, in interpreting how emerging digital technology, cloud and or mobility impact on society, business and or enterprises. The “double” period format means students produce a series of industry-ready projects. As the first of a 2-year initiative, and to enhance their “market-readiness”, they establish a “proven experience” portfolio, showing how they use leading edge packages, across data systems/management, systems/agile projects, Networks/Cyber Security, Systems life cycle, Enterprise systems, Mobility, Digital Media (sound/video, graphics, animation) and Software Development – to solve problems.

**Leads to:** 13CP1 & 13CP2

## YEAR 13 – INTENSIVE (CAIE A2)

**13 CPI & 13 CP2** ●

**Entry Requirements:** AS Course completion with C+ (preference given to students with a Microsoft Office Specialist qualification). Or, only by negotiation with the department Director).

**Course Description:** A2 “Intensive” CAIE students strengthen their “portfolio” by proving their ability to use leading edge ICT systems to tackle a broader range of organisational situations, including the use of a variety of computer networks. As a result, students are immersed in the “system life cycle”, and how these affect the workplace, teams and performance. The “double” period format means students cover, expertly, a range of software including graphic manipulation and animation – with focus on using Autodesk packages as well as Adobe. As the culmination of the 2-year initiative, and to embolden their “market-readiness”, they publish their “proven experience” portfolio, showcasing how they use leading edge packages, across data systems/management, systems/agile projects, Networks/Cyber Security, Systems life cycle, Enterprise systems, Mobility, Digital Media (sound/video, graphics, animation) and Software Development – to solve problems.

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### CORE COURSES

□ A reduced credit course covering the core aspects of the full course. There is sufficient coverage in Year 11 & 12 core courses to allow progress into the full course at the next level. Students taking these courses can meet the university entrance requirement by the end of Year 13.

### ENTRY COURSES

△ Relevant courses for students who are working towards gaining NCEA level 1 or 2. Students taking these courses can meet the entry requirements of some tertiary courses, apprenticeships or their first employment.