Comparison between Institutes	Creative Technologies Institute	STEM Institute
Duration of Course	Years 7 to 9	
Curriculum Focus	Enriched Digital Technologies curriculum.	Enriched and accelerated Science and Maths curriculum.
Student Entry	Selection by online testing and an interview may be required. Students will also be required to participate in a range of STEM & ICT based activities; both individual and group work will be included.	
Hours per week in Specialty Area	IT - 2 hours Creative Lab - 1 hour	
Before school commitment	1 hour per week	
Remain with specialist group in other Learning Areas	No	Yes - Science and Maths
Hardware and Software requirements	Laptop or MacBook (please see device specification sheet)	
Suggested Senior School pathways	STEM Innovation (Year 10) Computer Science Applied Information Technology Design - Photography Design - Graphics Business Engineering	STEM Innovation (Year 10) Mathematics Specialist Mathematics Methods Chemistry Physics Human Biology Biology Psychology Earth and Environmental Science Computer Science Engineering

KEY CONTACTS

General Enquiries	Administration	ashdale.sc@education.wa.edu.au
Hannah James	Deputy Principal	hannah.james@education.wa.edu.au
Mark Pearce	Head of Learning Area - Technologies	mark.pearce@education.wa.edu.au
Rachel Farnay	Teacher in Charge - ICT	rachel.farnay@education.wa.edu.au
Claire Tull	STEM Coordinator	claire.tull@education.wa.edu.au

Ashdale Secondary College
An Independent Public School
75 Westport Parade, Darch WA 6065
(08) 6207 1300
ashdale.sc@education.wa.edu.au
www.ashdalesc.wa.edu.au

Ashdale
Secondary College
"Achieving a Positive Future"

ASHDALE SECONDARY COLLEGE

ICT APPROVED SPECIALIST PROGRAM

ICT APPROVED SPECIALIST PROGRAM

The ICT Approved Specialist Program at Ashdale Secondary College immerses students in the world of innovation and creativity. Students will engage with the latest technology and teaching methods, placing them at the forefront of an exciting, fast-paced industry.

As part of the ICT Approved Specialist Program, students will have the opportunity to have input in their learning, work on solutions to real-world problems and engage with current research initiatives.

The ICT Approved Specialist Program offers students the choice of two Institutes to further develop their knowledge and skills;

1. Creative Technologies Institute
2. STEM Institute

The ICT Approved Specialist Program requires a three-year commitment (Years 7 to 9) to develop the students as self-directed learners fully. Students must also commit to a compulsory one (1) hour lesson out of normal school hours i.e. before or after school.

WE OFFER WORLD CLASS EDUCATION FOSTERING INNOVATION AND CREATIVITY

CREATIVE TECHNOLOGIES INSTITUTE

The Creative Technologies Institute delivers an enriched digital technologies curriculum while developing student skills in various areas of ICT, such as graphic design, photo media, coding, Lego robotics, circuitry, entrepreneurial skills, project management, video game design and the latest innovations in the technology industry.

Classes are designed to provide students with a unique learning experience focused on fostering creativity and innovation. Students can also access specialised excursions, incursions, guest speakers, industry partnerships and expos.

The College's research-based learning models develop students' ICT capability. Students learn to use ICT effectively and appropriately to access, create, and communicate information and ideas, solve problems, and work collaboratively.

Students in the Creative Technologies Institute are involved in competitions such as Robocup, the Python Dot Competition and Young ICT Explorers to demonstrate their skills. Students can access the TV studio, virtual reality equipment, and Creative and iMac lab for ongoing projects and skills development.

STEM INSTITUTE

The STEM Institute delivers an enriched and accelerated curriculum in Science, Technology, Engineering, and Mathematics, nurturing high-achieving students to pursue career paths in various STEM professions. Curriculum delivery focuses on an interdisciplinary approach across STEM subjects. Lessons are designed around finding solutions to real-world problems. The STEM Institute develops critical thinking and problem-solving skills and creates an environment that promotes innovation, collaboration and an entrepreneurial mindset.

As part of the STEM Institute, students gain invaluable exposure to tertiary and industry partners, connecting them with professionals in STEM fields. They get to present their work in prestigious forums, including expos, competitions, and business projects. Our program also includes enriching incursions and excursions, enhancing the learning experience.

Students within the STEM Institute are provided access to Class Pads in mathematics and use of a mechatronics workshop with laser cutters and 3D printers for prototyping.

WHAT ELSE SHOULD I KNOW?

Both Institutes provide a clear pathway to Senior School, targeting career paths across various leading-edge professions. Our expert teachers undertake development programs that encourage inquiry-based teaching and learning strategies. There is a strong emphasis on creative and critical thinking, scientific methods, and problem-solving.

The program is offered in a technology-savvy and rich learning environment. Parents must supply a laptop for school and home use (see the specifications sheet on our website for further details).

WHAT DO I NEED TO DO TO APPLY?

Entry into this program is based on merit. All students will sit an online test focusing on general ability and/or numeracy skills. Students will also be required to participate in a range of STEM and ICT-based activities, including both individual and group work. The session will conclude with a getting-to-know-you chat with a member of ASC staff.

For further information, see our website - http://www.ashdalesc.wa.edu.au.