The Master of Software Development is open to anyone with a Bachelor's degree. This conversion programme has been designed for graduates from non-information technology disciplines, who want to become software developers.

MASTER OF SOFTWARE DEVELOPMENT

As our world becomes increasingly digitally enabled, there is a high demand from New Zealand employers for ICT graduates.

The Wellington ICT Graduate School is creating a diverse supply of industry-ready talent in response to the ICT sector boom that is currently occurring in the Wellington region. The programmes are designed to build on students' existing talents and skills, providing hands-on experience and real world projects to prepare them to take on jobs in the ICT industry.

The Master of Software Development (MSwDev) is designed to equip graduates from non-ICT backgrounds with a strong, industry-focused qualification that will prepare them for professional work within the tech sector.

The Wellington ICT Graduate School has relationships with a number of leading companies in the ICT sector, and the programmes delivered through the School have been specifically created with industry involvement and reviewed by industry regularly. Students will also have the opportunity to engage with industry and industry leaders through guest lectures, projects, and business networking events.

PROGRAMME DELIVERY

The one year Master of Software Development is a Wellington ICT Graduate School programme delivered by the School of Engineering and Computer Science at Victoria University of Wellington.

For more information about the Master of Software Development, please contact the Wellington ICT Graduate School.

wellingtonict.ac.nz

WELLINGTON ICT GRADUATE SCHOOL

VICTORIA UNIVERSITY WELLINGTON
TE WHARE WĀNANGA O TE ŪPOKO O TE IKA A MĀUI

MASTER OF SOFTWARE DEVELOPMENT

Students can expect to gain skills in programming and software development which will allow them to develop software based solutions for a range of industries.

PROGRAMME STRUCTURE

The Master of Software Development (MSwDev) is a full-time, 180-point Master's programme. It is expected that students complete the full MSwDev within 12 months, through three consecutive trimesters of study.

WHO SHOULD APPLY?

The Master of Software Development is open to anyone with a Bachelor's degree. The programme has been designed for graduates from non-information technology disciplines, who want to work in software development.

Recent graduates as well as experienced candidates who want to broaden their career opportunities are welcome.

CAREERS IN SOFTWARE DEVELOPMENT

The ICT industry is fast-growing and offers a wide-range of exciting and challenging employment opportunities. Wellington has a significant digital, film, and gaming local industry, and a strong start-up culture producing over a quarter of all NZ's ICT related GDP, making Wellington the capital of ICT in New Zealand.

Students can expect to gain skills in programming and software development which will enable them to develop software based solutions for a range of industries. Graduates will enter the industry with a combination of highly sought after skills and technical knowledge along with both communication and project management skills. This will allow them to build a successful career in IT that aligns with their other interests and passions.

All applicants for the Master of Software Development should have:

· completed a Bachelor's degree with good grades; and
· been accepted by the Head of School of Engineering and Computer Science.

Note: If you already have a qualification in information systems (or a similar subject) you will not normally be accepted into the programme.

PROGRAMME OUTLINE

SWEN131 *Programming for Software Development (also known as bootcamp)* is the primary entry point for graduate students wishing to enter the Master of Software Development programme within the Wellington ICT Graduate School. Students will learn to design, read, write and debug small Java programs and work on larger software projects within groups while applying software development methodologies and tools. The course will be taught as an intense full time, 5-week block course and a good performance in this course will meet the MSwDev entry requirement.

Part One
Course work
SWEN501 *Professional Programming Skills* (6 Weeks) Learn about complex and core programming concepts and techniques, including collection data structures, inheritance and object orientation, fundamental algorithms and data structures, exceptions, testing, version control, and security, networking, and databases.

SWEN502 *Software Development Studio 1* (10 Weeks) Covers a range of software development skills, technical topics, and software engineering concepts and techniques. Topics include: Databases, User Interfaces, Cybersecurity, Networking, Mobile Application Development and Web Applications.

SWEN503 *Software Development Studio 2* (10 Weeks) Learn about advanced technical concepts and techniques for software development, and professional practice skills, including software project planning.

SWEN505 *Professional Seminar Series* (Spans SWEN502 and SWEN503) Gain professional enterprise and research skills, including understanding legal and IP issues, business contexts, social and environmental issues for software, and research and communication skills. Talks, seminars and hack-a-thons are presented by Wellington's leading ICT professionals, including speakers from companies like Trade Me, Datacom, Powershop, Xero, Chorus, and Blockchain Labs NZ.

Part Two
SWEN589 (12 Weeks) Involves a significant project typically undertaken with a local ICT business via an internship, or alternative industry focused research project. Entry to Part Two requires a good performance across Part One courses or approval from the Head of School.

FURTHER INFORMATION
For more information about the Master of Software Development, please contact Wellington ICT Graduate School:

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