

Possible Pathways for Shift Programme (Dunedin, January to December 2022, preliminary)

These are suggested pathways only as we are flexible to accommodate for your interests and your professional background. Please talk to us about your goals.

BUSINESS SCHOOL Te Kura Pakihi

Pathways



Patricia:

"I have an interest in graphic design and I have a good sense for aesthetics and details. Dealing with people, listening to their needs and working out a solution they are happy with, is something I enjoy."

Web Development

General Development

the best programming solution within the given requirements is a challenge I like. It helps to analytical skills, but more important is diligence."

everywhere, and working in this interdisciplinary field is very exciting. Analysing, managing and developing information systems connects you with a lot of interesting people.

COMP161**

Computer

Programming

Systems Development

Data Science

like dealing with numbers. Visualisina information hidden in the data to educate people and support better decisions

STAT110

COMP161**

User Experience Designer



interfaces are well designed and usable for a wide range of people. Understanding their needs, desires and circumstance es when using a software is a vital part of my work."

Software Testing

software and badly written documents? I see my mission in improving software products testing and illustrative documentation."

COMP161**

Computer

Programming

Database Theory & App.

integral part of our day-to-day life. Companies are depended on well set-up, reliable and secure networks. Administering those complex infrastructures is challenging and rewarding."

COMP101

COMP161**

Prog. for Scientists

Network Administration



products, it's about connecting people. Think of political campaigns or adverts for Digital worlds offer many possibilities to aet creative.

COMP101

Foundations of

Information Systems

Prog. for Scientists

HCI & User Experience

Digital Marketing



'I was always fascinated by electronics and all things mechanical. Automation is still developing on a fast pace and embedded systems which are connected to the internet are an important part."

COMP101

Prog. for Scientists

Dev. Information Sys. 1

COMP161**

Robotics &

Internet of Things





"Maps are cool and geographic information systems are being applied increasinaly to a variety of human and natural problems I like how survey data from field collection is eventually transformed into new knowledge.

COMP101

COMP161**

Prog. for Scientists

DB Theory Pract. DS (COMP120)

SURV411 SURV412

Analysis & Cartography

and concepts of GIS for

transforming and analys-

mapping, presenting,

ing spatial data.

Systems Administration

"My role is to make sure that the business runs smoothly from a technical side, that people have the access they need but also that systems and data are secure. This is quite a balancing act."

COMP101

COMP161**

Prog. for Scientists

Dev. Information Sys.

IN609

Operations

Engineering

Jump Start Summer School

COMP270

Semester 1

ICT Fundamentals

Computer Programming

IN512

Fundamentals of

Web Development

IN607

Introductory

App Development

Tools for Teamwork

Aaile Methods

COMP161**

Database Theory & App. HCI & User Experience

Database Theory & App. HCI & User Experience

COSC201 COSC202

Data Structures Developmen

COSC203

Web, Databases and

Networks

Tools for Teamwork

Agile Methods

COMP162

Foundations of

Computer Science

Database Theory & App. HCI & User Experience

INFO201

Developing

Information Systems

INFO202

Developing

Information Systems 2

Tools for Teamwork

Agile Methods

Database Theory & App. Prog. for Scientists

COMP120

Practical Data Science

INFO204

Introduction to

Data Science

Tools for Teamwork

Aaile Methods

Data Visualisation

Database Theory & App. Dev. Information Sys. 1

COMP161**

Computer

Programming

INFO203

HCI and

User Experience

bile App

INFO351*

HCI & User Experience

INFO201

Developing

Information Systems 1

IN733*

Quality Assurance &

Software Testing

Dev. Information Sys. 1 IN515

Introduction to

MART466 Digital Marketing

MART448

Advanced Business

Analytics

Tools for Teamwork

Web Design & Dev Tools

Data Visualisation

IN620* **Embedded Systems** SURV208 SURV319 to GIS & Prog. AND

IN616* Operating Systems Concepts

Course Choice 2

Course Choice 1

Semester 1

COMP371, 372 & 373 ICT Studio 1, 2 & 3

Semester 2

Semester 1 & 2 Web Design & Dev Tools Possible workshops COMP390

ICT Industry Project Nov/Dec

Front and back-end web development (HTML, CSS, PHP, JavaScript) incl. design concepts and usability studies.

Software development for diverse assignments incl. database connections or web design and implementation.

IT Security IT Security

Analysis and development of information systems with focus on data managment and data analysis.

Application of data-driven modelling techniques on a wide range of problems, incl. visualisation and reporting.

Aaile Methods Web Design & Dev Tools Design, prototyping and

Tools for Teamwork

testing of user interfaces with focus on usability & user experience applying a user-centred approach.

Tools for Teamwork Aaile Methods Data Visualisation

Communication of complex technical information. Design and application of test plans and usability studies.

IN615 Switching and Routing

Networks

Tools for Teamwork Robotics IT Security

Design, installation. Application of marketing configuration and moniconcepts and online tools toring of hardware and to implement digital software components to marketing campaigns, build computer networks. incl. advanced analytics

IN621 Robotics and Automation

Design and implementa-

tion of meaningful appli-

sensing and automation

cations that build on

technology.

Tools for Teamwork Agile Methods IT Security

Tools for Teamwork Aaile Methods Data Visualisation Using principles, methods Tools for Teamwork Robotics IT Security

Managing of user authentication, backup, desaster recovery as well as configuring & deploying cloud services and resources.

Courses/content offered by:

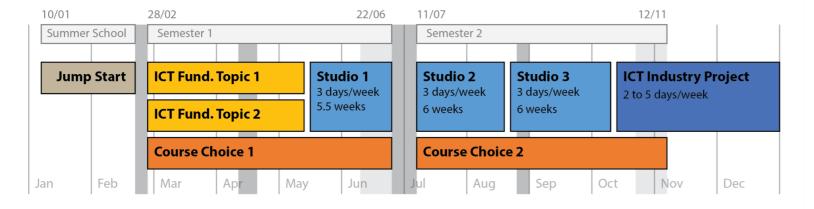
Department of Computer Science Department of Information Science

School of Surveying

Department of Mathematics & Statistics Department of Marketing

Otago Polytechnic, IT

Timeline



* requires confirmation ** offered in pre-christmas summerschool

For further information: Email ict@otago.ac.nz