

**BACHELOR OF  
SOFTWARE ENGINEERING (HONS)  
DISCIPLINE ELECTIVE PATHWAYS -  
CALLAGHAN**



These pathways have been created to provide guidance for Bachelor of Software Engineering (Hons) students wishing to specialise in a second discipline area with their elective courses.

Each pathway has been selected to complement the content of the Bachelor of Software Engineering (Hons) program with consideration of pre-requisites. Please note that these pathways are suggestions only and will not be noted formally on the final degree certificate.

Students are welcome to enrol in any elective provided that they satisfy the pre-requisites, and they adhere to the rules regarding maximum number of 1000 level courses in their program. For a full list of UON courses, visit the [course handbook](#).



# Recommended Electives for Software Engineering (Hons) Program

## Animation

|                         |                      |
|-------------------------|----------------------|
| Complete the following: |                      |
| DESN1801                | Animation Thinking   |
| DESN2801                | Animation Process    |
| DESN2802                | Animation Production |
| DESN3801                | Animation Studio     |

## ICT Trainer

|                         |   |
|-------------------------|---|
| Complete the following: |   |
| EDUC6036                | Education Leadership and ICT                |
| EDUC6117                | Building High-Quality Learning Environments |
| EDUC6351                | Data Mining for School Leaders              |
| EDUC6353                | Leading and Managing Education Change       |

## Criminology

|                         |                              |
|-------------------------|------------------------------|
| Complete the following: |                              |
| CRIM1010                | Introduction to Criminology  |
| CRIM1020                | Victimology                  |
| CRIM2001                | Criminal Justice in Practice |
| CRIM3040                | Forensic Evidence            |

## Data Analytics

|                         |  |
|-------------------------|--|
| Complete the following: |  |
| STAT1100                | Data Wrangling and Visualisation                 |
| STAT2020                | Predictive Analytics                             |
| STAT2110                | Engineering Statistics                           |
| STAT3100                | <i>Leading and Managing Education Change</i>     |
| or                      |  |
| STAT3800                | <i>Deterministic and Stochastic Optimisation</i> |

## UX & Interaction Design

|                         |   |
|-------------------------|---|
| Complete the following: |   |
| DESN1600                | Interaction and UX Design Fundamentals                  |
| DESN2600                | Designing for Game Play                                 |
| DESN2610                | Experience Design Studio                                |
| DESN3600                | Experimental Interfaces and Tangible Interaction Design |

## Data Mining

|                         |                                  |
|-------------------------|----------------------------------|
| Complete the following: |                                  |
| STAT1100                | Data Wrangling and Visualisation |
| STST2110                | Engineering Statistics           |
| INFT2060                | Applied Artificial Intelligence  |
| COMP3340                | Data Mining                      |

## ICT in Education

|                         |   |
|-------------------------|---|
| Complete the following: |   |
| EDUC1038                | Foundations of Secondary Education                      |
| EDUC1103                | Schooling, Identity and Society                         |
| EDUC2102                | Education Psychology: Learners and the Learning Process |
| EDUC2200                | The Future of Teaching and Learning                     |