

# NZ Diploma in Landscape (Design) & NZ Certificate in Horticultural Services (Landscape Design)

**Course Costs 2023** (please look only at the courses you are enrolled in)

**Note: All courses use the Unitec Moodle online system for providing resources to students. You will need access to a computer (Windows or Mac) and the internet to make the best use of this. Also, if health requirements mean we must move to 'remote teaching', online and computer access will become mandatory.**

## **LAND4113 (Design Studio) and LAND4114 (Design Representation)**

- Allow \$50-100 for printing costs for these courses (plans).
- There is a field trip to Hamilton Gardens. Some van transport is provided but carpooling will also be required. Garden entry is free.
- Camera or phone to take photos
- Charcoal or Crayon/pastel
- Selection of coloured pencils (aquarelles if you want to be able to wet them to give more of a water colour effect)
- 3-4 different coloured felt tip pens (eg green, orange/red, blue, yellow) with thick nibs
- 4B/8B, 4H, 2H, HB, 2B graphite pencils
- 0.1pt, 0.3pt, 0.5pt and 0.7pt fine line pens (black - for technical drawing)
- Scale Ruler, make sure it has 1:50, 1:100, 1:200 scales – triangle profile is easiest to use
- T-square
- Triangles/set squares (45 and 60 degree). You can buy one adjustable set square, although more expensive
- Circle template with a variety of diameters for creating planting plans
- Compass for making larger circles
- Pencil sharpener
- Eraser
- A visual diary (A4, blank pages, drawing quality paper)
- A1 or A2 trace paper as directed by lecturer (approx. 10 sheets)
- Butter paper pad A2
- Masking tape
- Magic tape
- Glue stick
- Scissors
- Craft knife (for model-making – cutting cardboard etc) & can also be used to scrape off ink mistakes from trace paper.
- BH A2 Challenge drawing board – while not compulsory, this will make your design study much more manageable if you want or need to work from home.

**Allow \$100-200 to acquire your drawing equipment (depending on what you decide to buy – not including the drawing board).**

You will need to purchase **core materials** ready to start your first class. See below for suppliers nearest Unitec. A price list for drawing equipment from Gordon Harris is attached. Please ask if you have questions.

**Note:** There is not a bookshop or art supplies shop on campus. The closest is Studio Art Supplies in Grey Lynn, French Art Shop in Morningside or Gordon Harris in Newmarket. All give 10% discount for students (present your ID card) and may have sales.

### **LAND4443 Horticulture for Landscape**

- You will need suitable shoes and raincoat/umbrella for field trips.
- More information will follow about the practical activities during the block course.
- A camera/phone
- It is recommended to buy a small hand lens for investigating and ID of pests and diseases on plants. You can spend from \$15-\$100. Have a look at <https://magnifiers.nz/shop-category/pocket-folding-magnifiers/category-14> . There is no need to spend a lot. Good idea to hang it on a lanyard.
- It is not compulsory to buy any one book, but a recommended plant book would be Fiona Eadie, *100 Best Native Plants for NZ Gardens*, Revised Ed 2014, Godwit. (Whitcoulls, approx. \$50)
- Access to a computer with internet to complete the online learning this course entails.

### **LAND5557 Designing with Plants**

- You will need suitable shoes and raincoat/umbrella for field trips/site visits.
- A camera/phone
- Allow \$30 for field trip entry to gardens.
- Drawing equipment as per Land4113 and Land4114 – including extra sheets of trace paper
- Allow \$50 for printing costs for assignments
- It is not compulsory to buy any one book, but a recommended plant book would be Fiona Eadie, *100 Best Native Plants for NZ Gardens*, Revised Ed 2014, Godwit. (Whitcoulls, approx. \$50)

### **LAND5050 Plants and Ecology**

- You will need suitable shoes and raincoat/umbrella for field trips.
- A camera/phone
- hand lens (recommended for looking at plant detail but not compulsory)
- Allow \$40 to print a set of course notes (if you prefer a hard copy)
- Allow \$50 for field trip costs (eg entry or transport)
- It is not compulsory to buy any one book, but a recommended plant book would be Fiona Eadie, *100 Best Native Plants for NZ Gardens*, Revised Ed 2014, Godwit. (Whitcoulls, approx. \$50)
- Allow \$50 for printing costs for assignments
- Drawing equipment as per Land4113/4

## LAND5115 Capstone Project

- You will need suitable shoes and raincoat/umbrella for site visits.
- A camera/phone
- Drawing equipment as per Land4113 and Land4114 – including extra sheets of trace paper
- Allow \$100 for printing costs for assignments

## LAND5215 CAD Documentation

- memory stick (at least 10 GB) or external hard drive – prices vary
- Students will learn Vectorworks 2023 it goes on both mac and pc. Free student version is available. Computers are available on-campus, but if we are not able to access campus at certain times you will need to purchase your own, if you don't already have access to one – see below.
- Here are the computer system requirements for entry level projects (these would be sufficient):
- **Vectorworks 2023 System Requirements**
- The following are real-world system requirements for running Vectorworks 2023. In some demanding cases, we would suggest a more capable machine than is described in these hardware profiles. Likewise, there are some less demanding situations where Vectorworks will perform well on older hardware.
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- **General Requirements**
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- **Operating Systems**
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- macOS 13 (Ventura)
- macOS 12 (Monterey)
- macOS 11 (Big Sur)
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- Windows 11
- Windows 10 64-bit
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- **Recommended Hardware Profiles**
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- **Mid-level Profile:**
- For medium-sized projects, complex models/drawings with a medium level of details (such as small commercial projects, mid-size entertainment venues, residential site modeling)
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- **Processor:**
- 2.0+ GHz Intel Core i7 or AMD Ryzen 7 with six cores, or better
- Apple M1 Pro or higher
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- **RAM:**
- 16GB or more
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- **Graphics Card:**

- macOS M-series: M1 Pro 16GB or higher  
macOS Intel: Metal GPU Family 1 v4 or later, 4GB VRAM or more  
Windows: DirectX 11 compatible, 4GB VRAM or more

32GB Unified Memory (M-series) / 8GB VRAM or more is recommended when using multiple displays, or a 4K or higher resolution display.

**Vision** requires a dedicated OpenGL 4.1 compatible graphics card with 4GB or VRAM or more, preferably released in the past three years (e.g. NVIDIA GeForce RTX 2070 series, AMD Radeon RX Vega series).

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- **Display Resolution:**
- 1920 x 1080 or higher
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- **Hard Disk:**
- 10GB of free disk space is required for the installation. 30GB or more is required for a full installation with all libraries.
- Case-sensitive file system volumes are not supported.
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- Installing Vectorworks on flash storage (SSD) is recommended.
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