



CPD Course | School of Architecture, Planning and Geomatics

# Introduction to Design Computing

11 - 15 January 2021



## Course Overview



Introduction to Design Computing in a fast-paced one-week course which introduces the basics of digital drawing relevant to spatial design practices. Professional practice in spatial design practice generally operates between raster (pixel or “dot” based) and vector (line or coordinate based) images. The primary focus of this course is a series of workshops that introduce the basic tools in 2D and 3D design and draughting software. Each workshop builds on the tools from the previous workshop, developing a digital “workflow” between conceptual hand drawing (raster), 2D drafted technical drawings (vector) and 2D digital renders.

Students are actively involved during the workshops, will practise using digital drawing tools and apply these skills to draught and render a small landscape architectural design plan.

## Course Topics

Introduction to Design Computing introduces the basic software used by designers in architecture and landscape architecture.

- 2D drafting in AutoCAD for technical drawings, including how to trace an existing drawing and print the resulting drawing;
- Image manipulation and layout tools; how to work with resolution in Adobe packages including Illustrator, Photoshop and InDesign; and working between these packages and AutoCAD;
- Basic Introductory 3D modelling using SketchUp/Format to create architectural elements, incorporating AutoCAD drawings.

## Course Format

The course takes the form of fast-paced digital drawing workshops under the guidance of the course presenter. Each workshop focuses on an aspect of digital drawing software, and builds from one workshop from the next, developing a portfolio of digital drawing work.

Due to Covid-19 regulations on campus we will not have access to computer lab facilities but will be able to connect to the computer labs via remote access from a studio venue in the Centlivres building. You will please **need to have a laptop for this course**. Access to relevant software will be provided via remote access and you will be able to access WiFi in the building.

If Health & Safety regulations do not permit face-to-face delivery, alternative arrangements will be made and this course may be delivered online. In the event of online participation, you will please need to ensure that you have access to a laptop, good wifi connectivity and data. Even if the course delivery is online remote access to computer software will be provided.

# Who Should Attend?

This course has been designed as an intense introduction for:

- Post-graduate students from a non-design based degree who are applying for entry into to design based degrees such as the Bachelor of Landscape Architecture Honours (BLA [Hons]) or the Master of Urban Design (MUD).
- Applicants to other spatial and design courses and degrees (City and Regional Planning, Civil Engineering etc.) who would like to learn skills that would help them make the most of their studies
- Professionals (including those mid / later career) who would like to develop skills in an area they have not been exposed to or may be required in their current work context
- Other practitioners, contractors or interested parties who interface with design professionals who would like to develop an understanding of a facet of built environment design through personal experience

## Course Presenter



Dirk Smit is a landscape architect with industry and academic experience. He has also previously taught the Introduction to Spatial Design and Landscape Architecture course at University of Cape Town and Cape Peninsula University of Technology. He has taught both introductory and advanced computer applications in landscape architecture including AutoCAD, Adobe Suits, Sketchup, Revit and Civil3D. As well as teaching computers he has also secured a publication for his Dissertation in the ProLandscape magazine.

## Course Assessment

Complete attendance of the entire course and completion of the full set of assignments will lead to the awarding of a certificate of completion. Where students are using the course as a prerequisite for entry into either the BLA (Hons) or MUD, completion and the awarding of the certificate does not guarantee entry to these programmes.

# Course Details

<b>Name</b>	Introduction to Design Computing
<b>Dates</b>	11 - 15 January 2021
<b>Venue</b>	TBC; Centlivres Building, Upper Campus
<b>CPD points</b>	This course is registered with ECSA and CiFA for the award of CPD points
<b>Fees</b>	Standard fee: R8000 Student fee: R6000*
<b>Required equipment and stationery</b>	Participants will need to provide their own laptop for this course. Access to WiFi and software will be provided by the course. This only applies when the course is conducted face-to-face – please take note of additional Covid-19 impacts below.
<b>Covid-19 Impacts</b>	<p>Given current lockdown levels, this course has been given permission to be held on campus. As per regulations, course participants will be issued with a letter of invitation and a must complete a daily health survey in order to access the campus. Once in the course venue, participants and lecturers will be required to wear masks at all times. Social distancing of work spaces and sanitisation procedures will be strictly enforced.</p> <p>Due to Covid regulations on campus we will not have access to computer lab facilities but will be able to connect to the computer labs via remote access from a studio venue in the Centlivres building. You will please <b>need to provide your own access to a laptop for the duration of this course</b>. Access to relevant software will be provided via remote access and you will be able to access WiFi in the building.</p> <p>If Health &amp; Safety regulations change such that face-to-face delivery is not permitted, alternative arrangements will be made and this course may take place online. In this case, you will please <b>need to have access to a computer or laptop for this course as well as a stable internet connection</b>. Access to relevant software will be provided via remote access.</p>
<b>Financial Assistance</b>	Limited financial assistance may be available for BLA (Hons) and MUD students. To apply, please send a letter of motivation to <a href="mailto:ebe-cpd@uct.ac.za">ebe-cpd@uct.ac.za</a> , before 30 November 2020

\*Refers to students registered for 2021

# Registration

## Registration and Cancellation

- [Register for this course](#)
- Registration covers attendance of all sessions of the workshop and course materials. Please note that teas and lunches are not included in the course fees. Campus catering facilities will be closed so students must please bring a packed lunch.
- Accommodation is not included in the cost of the course. Please note that UCT residences will not be open before 25 February 2021.
- **Registrations close on 30 November 2020.** Confirmation of acceptance will be sent on receipt of a registration form.
- **Cancellations must be received in writing by 30 November 2020. The full course fee will be charged if you have not cancelled your registration and do not arrive for the course.**
- For more information on application and registration procedures, please visit our website: [www.cpd.uct.ac.za](http://www.cpd.uct.ac.za)

## Certificates and CPD Points

Complete attendance of the entire course and completion of the full set of assignments will lead to the awarding of a certificate of completion. Where students are using the course as a prerequisite for entry into either the BLA (Hons) or MUD, completion and the awarding of the certificate does not guarantee entry to these programmes.

The course is registered with the Engineering Council of South Africa and the Cape Institute for Architecture, and is accredited for the award of CPD points, which are required for continuing professional registration. The ECSA course code is UCTIDC21

CPD participants can also request a formal university transcript, which will show this course as part of a Professional Development Career.

## Contact details

For more information or details on CPD courses, visit our website or contact us.

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**Web:** <http://www.cpd.uct.ac.za>

**E-mail:** [ebe-cpd@uct.ac.za](mailto:ebe-cpd@uct.ac.za)

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