



DESIGN BRIEF

SUSTAINABLE CITIES ADDING AN AFRICAN PERSPECTIVE



Design Brief

<i>Project Title</i>	Sustainable Cities: Adding an African Perspective
<i>Lead Instructor</i>	Nadine Ibrahim, Course Instructor <nadine.ibrahim@utoronto.ca>
<i>Teaching Team Members</i>	<ul style="list-style-type: none"> ● Murray Metcalfe, Dan Hoornweg, Chibulu Luo ● Subject matter experts from the University of Toronto ● Featuring academics from African universities
<i>Department</i>	Department of Civil and Mineral Engineering
<i>Course Background</i>	<p>This SPOC (small, private online course) is primarily a ‘green design’ course for civil engineers. The purpose is to provide engineers with an enhanced skill set to permit them to cooperate more fully with architects and urban planners in the design of sustainable cities and neighbourhoods.</p> <p>The four modules in this SPOC provide an introduction to concepts of sustainability, urbanization, climate change; strategies for best practices in the design of new cities and redesign of existing ones; and tools and methodologies for environmental assessments, material flows, and urban metabolism.</p>
<i>Project Requirements</i>	Four Modules including designing overall look and feel of visual elements (graphics, animations).
<i>Known Project Elements</i>	<ol style="list-style-type: none"> 1. 21 X Module videos that will incorporate the following: 2. 1 X Opening/Title Sequence (animation) 3. 21 X Module title (animation) 4. 1 X World Map/Location Marker (graphics) 5. Highlighting cues (animation/graphics) 6. Extra graphics (will vary from module to module)
<i>Final Format</i>	Open Online Course
<i>Key Dates: SME</i>	<p>Dec 2017 - Receipt of Module 1 & 2 screencaptures and video elements</p> <p>Jan 2018 - Receipt of Module 3 & 4 screencaptures and video elements</p>
<i>Key Dates: ETO</i>	<p>Feb 2018 – M1 - 4 videos with all graphic & animated elements</p> <p>March 2018 – M2 - 5 videos with all graphic & animated elements</p> <p>April 2018 – M3 - 7 videos with all graphic & animated elements</p> <p>May 2018 – M4 - 5 videos with all graphic & animated elements</p>

<i>Curricular Goals</i>	The purpose of these modules is to provide students with an enhanced skill set to permit them to cooperate more fully with architects and urban planners in the design of sustainable cities and neighbourhoods, and envision attractive, healthy, visually stimulating urban environments.
<i>Pedagogical Goals</i>	The project will be designed as an open distance course with re-use encouraged and a fully transparent development process.
<i>Target Audience</i>	The global classroom learners included a cohort of engineering students drawn from four universities in Canada, Nigeria, South Africa, and Tanzania. The online learners are from the MasterCard Foundation Scholars Program in Civil Engineering at the University of Toronto in Canada, Civil Engineering undergraduate students at Covenant University in Nigeria, graduate students from the Faculty of Engineering and the Built Environment at the University of Johannesburg in South Africa, and undergraduate students in Structural and Construction Engineering at the University of Dar es Salaam in Tanzania.