

**POST-BACCALAUREATE CERTIFICATE IN
DESIGNING SMART AND
SECURE COMMUNITIES**

Making communities more intelligent and safer is an increasingly important issue. Citizens are expecting ever increasing levels of “smartness” from all levels of government, while also wanting to feel secure in their everyday lives. This can lead to controversy and requires a subtle approach. Aggressive measures like video surveillance on every street corner may provide security at the expense of individual liberty, which would be antithetical to the goals of a smart community.

To address these issues, the Faculty of Environmental Design is launching a new certificate that provides valuable theoretical and practical insights into how to be both safe and smart.



This certificate program provides professionals with specialized, research-based academic training in community security, including Crime Prevention through Environmental Design (CPTED) as well as the technological, social and cultural aspects of creating a smart community.

In the program, you will learn the principles of smart communities and specific ways to employ technologies to make communities safer and smarter, while respecting privacy. In the final Integrative Project you will conduct a supervised inquiry applying safe and smart community principles to a real-world project.

SAFE DESIGN STANDARD CERTIFICATION

The SAFE Design Council developed the first international environmental crime reduction certification program, called the SAFE Design Standard®. This is a point-based system for the evaluation and certification of the safety and security of a built environment, such as recommended measures for illumination, mechanical and electronic security.

This standard provides the academic foundation and consistent, evidence-based methodologies behind CPTED training and upon successful completion of the relevant course, you will obtain certification in the application of the SAFE Design Standard®. This credential, administered by the SAFE Design Council, authorizes qualified practitioners to evaluate built environments and apply the standard to real-world projects.

SMART COMMUNITIES

The Intelligent Community Forum defines intelligent communities as those which are responding astutely to the challenges presented by globalization and mastering enormous changes in communications and information technology.

Intelligent communities display six key indicators:

- Excellent access to high speed communications
- An extensive knowledge workforce
- A culture of innovation in businesses, governments, and institutions such as universities and hospitals
- Digital equality in both technology access and skills
- Sustainability, in terms of improving living standards without compromising the ability of future generations to do the same
- Advocacy to encourage others to embrace change as well as the courage and determination to help drive it

These principles, and others, will be applied to the course content and will be used as part of your final Integrative Project.



PROGRAM STRUCTURE

The intensive one year part-time academic program consists of four courses, taken in sequence. The first three courses are four-day blocks held on-campus, each with assigned preparatory work and follow-up assignments.

For the final Integrative Project course you will meet with your mentor at the start of the course, then conduct guided research over a period of several weeks. The group will reconvene to present and discuss their findings.

COURSE

DESCRIPTION

Geography of Crime

This course introduces the field of environmental criminology and the social and geographic aspects of crime. It explores the reasons why certain neighborhoods, and certain features of neighborhoods, tend to promote or discourage criminal activity. Special emphasis is placed upon the relationship between crime and the environment, crime prevention, spatial dynamics of crime, the criminality of place and the decision processes involved in criminal events. Ethical considerations and privacy aspects will be addressed throughout.

Applying the SAFE Design Standard®

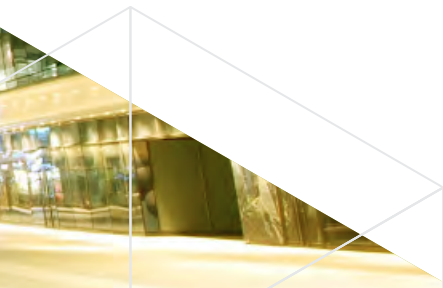
This course is based on the established training curriculum for certification of the SAFE Design Council, with supplementary material to enhance the theoretical foundations. The SAFE Design Standard® begins with an assessment of the risk posed to a site by outside factors, and then includes an assessment of access points, wayfinding and signage, pathways and roadways, barriers and fencing, visibility and illumination, mechanical and electronic security, and other design elements.

Smart Communities

This course provides an introduction to the emerging field of smart communities, showcasing groups and individuals that have made a conscious and deliberate effort to use information and communications technology (ICT) to transform their community's life and work. Smart communities may be physical or virtual, and the concept is more about the creative use of ICT infrastructure than merely building it. The social, economic, technical, design and ethical aspects of smart communities will all be considered.

Integrative Project

This course is a capstone project involving an independent, guided research activity, which builds on student interests and faculty expertise. The projects may be completed individually or in small groups. The course will involve an initial project definition session, online mentoring throughout the activity, and final presentations on lessons learned and future research directions.



ADMISSION REQUIREMENTS AND COST

Applicants to the program will be required to hold a four-year baccalaureate degree or a graduate degree, ideally in a field such as architecture, landscape architecture, urban design, planning, criminology, community or economic development.

The application process requires a statement of intent, three appropriate letters of reference and proof of English language proficiency (if applicable).

CANADIAN TUTORSHIP: \$2,172 per course x 4 courses = \$8,688 plus a \$115 non-refundable application fee.

INTERNATIONAL TUTORSHIP: \$4,950 per course = \$19,800 plus a \$115 non-refundable application fee, all in Canadian funds.

APPLY NOW

Applications will be accepted immediately and admission decisions will be made after December 1, 2017 for Winter 2018 enrolment.

For more information email evdsinfo@ucalgary.ca or phone 403.220.7437

At the University of Calgary, we offer students a high-quality educational experience that prepares them for success in life, as well as research that addresses society's most persistent challenges. Our creation and transfer of knowledge contributes every day to our country's global competitive advantage and makes the world a better place.

We do this in Calgary - Canada's most enterprising and caring city, where the Western can-do spirit, sense of family, and youthful energy permeate everything we do. We're pioneers at heart, innovators by necessity and desire, and community-builders because it's in our DNA.

As one of the largest multi-disciplinary design schools in Canada, the Faculty of Environmental Design occupies a distinct place of design expertise that provides boundless opportunity for design innovation.

Access to studio-based learning alongside faculty who are experts in their field provides exceptional hands-on research and community-based learning opportunities for students, and our distinctive interdisciplinary approach fosters strong partnerships well-suited to practice in a complex urbanizing world.

