

# ENSF-381: Full Stack Web Development Laboratory

## Lab03

**Section:**

### **Group information:**

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### **GitHub Link:**

<https://github.com/AXP4/ensf381-Lab02-repo.git>

### **Exercise 1 Output Screenshot:**

The collage consists of several rectangular panels arranged in a grid-like structure. At the top left is a large black and white aerial photograph of a city with extensive road networks and some industrial or institutional buildings. To its right is a smaller image of the Calgary skyline featuring the distinctive white dome of the Olympic Tower. Next to that is a solid red panel with white text. Below the main image are three more panels: a pink one on the left with text about campus change, a black and white photo of people walking in a park in the middle, and a red one on the right with text about culture and society. At the bottom left is a small text block about the roads that brought us here, and at the very bottom is a thin horizontal line with some very small, illegible text.

**Like many Calgary success stories, ours has a spirited beginning, an unprecedented growth spurt and a promising future.**

Even before Alberta became a province in September 1905, the citizens of a very young Calgary were determined to host a post-secondary institution as part of building a great city.

In 1906, the Alberta Normal School (which would later become our own Werklund School of Education) began operations and provided a steady stream of educators for a new province eager to grow and advance quickly.

When the University of Alberta was founded in 1908 in Strathcona (now part of Edmonton), Calgarians were disappointed with the "branch plant" concept that ensued and lobbied for decades for an independent institution of their own. Students, faculty, staff, alumni, donors and volunteers joined together to support the cause, with great passion and commitment.

Their dedication was finally rewarded on April 29, 1966 when the University of Calgary was granted autonomy. From there, growth was fast and furious, as a new campus took shape and innovative educators came to Calgary from around the world.

In 2016-17, the University of Calgary marked its 50th Anniversary as an autonomous institution.

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**The roads that brought us here**

What are our defining moments? They wind through 50 years and countless memories, each one stamping a mark on the cultural and physical landscape of our city. We're looking back but we're pushing forward.

**Calgary's urban evolution**

A university and a city growing together side by side.

[Read more](#)

**Changing face of campus**

Creating an intellectual hub to empower the problem-solvers of the future, today.

[Read more](#)

**Culture and society**

Fueling the cultural and social transformation of a city and region.

[Read more](#)

### **Exercise 2 Output:**

### **Screenshot from step 6:**

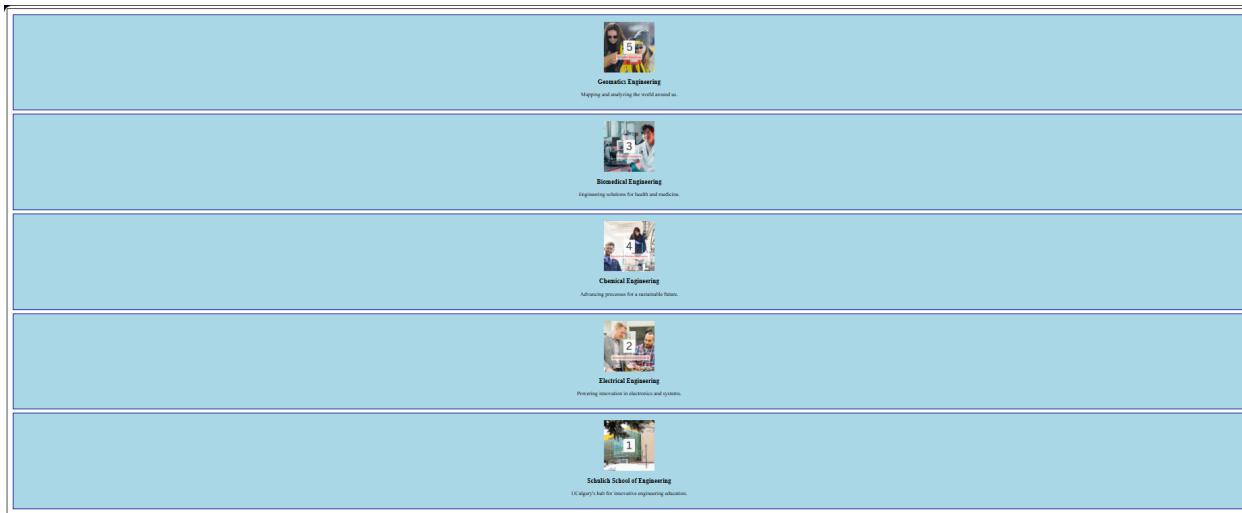
 <p><b>1</b></p> <p><b>Schulich School of Engineering</b></p> <p>UCalgary's hub for innovative engineering education.</p>	 <p><b>2</b></p> <p><b>Electrical and Computer Engineering</b></p> <p>Powering innovation in electronics and systems.</p>	 <p><b>4</b></p> <p><b>Chemical and Petroleum Engineering</b></p> <p>Advancing processes for a sustainable future.</p>	 <p><b>3</b></p> <p><b>Biomedical Engineering</b></p> <p>Engineering solutions for health and medicine.</p>	 <p><b>5</b></p> <p><b>Geomatics Engineering</b></p> <p>Mapping and analyzing the world around us.</p>
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## Screenshot from step 8:

 <p><b>1</b></p> <p><b>Schulich School of Engineering</b></p> <p>UCalgary's hub for innovative engineering education.</p>
 <p><b>2</b></p> <p><b>Electrical Engineering</b></p> <p>Powering innovation in electronics and systems.</p>
 <p><b>4</b></p> <p><b>Chemical Engineering</b></p> <p>Advancing processes for a sustainable future.</p>
 <p><b>3</b></p> <p><b>Biomedical Engineering</b></p> <p>Engineering solutions for health and medicine.</p>
 <p><b>5</b></p> <p><b>Geomatics Engineering</b></p> <p>Mapping and analyzing the world around us.</p>

## Two Screenshots from step 9:

 <p><b>Geomatics Engineering</b></p> <p>Mapping and analyzing the world around us.</p>	 <p><b>Biomedical Engineering</b></p> <p>Engineering solutions for health and medicine.</p>	 <p><b>Chemical Engineering</b></p> <p>Advancing processes for a sustainable future.</p>	 <p><b>Electrical Engineering</b></p> <p>Powering innovation in electronics and systems.</p>	 <p><b>Schulich School of Engineering</b></p> <p>UCalgary's hub for innovative engineering education.</p>
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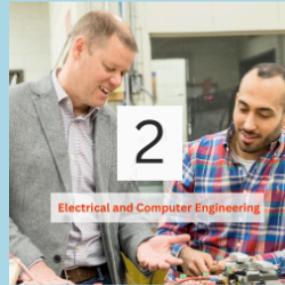


Screenshot from step 12:

A screenshot of a digital interface showing five numbered engineering program cards arranged in two rows. The cards are light blue with white borders and large black numbers (1, 2, 3, 4, 5) in the center. Each card features a thumbnail image, the program name in bold, a brief description below it, and a small caption at the bottom.

<b>1</b>  <b>Schulich School of Engineering</b> UCalgary's hub for innovative engineering education.	<b>2</b>  <b>Electrical and Computer Engineering</b> Powering innovation in electronics and systems.	<b>4</b>  <b>Chemical and Petroleum Engineering</b> Advancing processes for a sustainable future.
<b>3</b>  <b>Biomedical Engineering</b>	<b>5</b>  <b>Geomatics Engineering</b>	

## Screenshot from step 14:

 <p><b>Biomedical Engineering</b></p> <p>Engineering solutions for health and medicine.</p>	 <p><b>Geomatics Engineering</b></p> <p>Mapping and analyzing the world around us.</p>	
 <p><b>Schulich School of</b></p>	 <p><b>Electrical</b></p>	 <p><b>Chemical</b></p>

## Screenshot from step 16:

 <p><b>Biomedical Engineering</b></p> <p>Engineering solutions for health and medicine.</p>	 <p><b>Geomatics Engineering</b></p> <p>Mapping and analyzing the world around us.</p>	 <p><b>Electrical Engineering</b></p> <p>Powering innovation in electronics and systems.</p>	 <p><b>Chemical Engineering</b></p> <p>Advancing processes for a sustainable future.</p>	 <p><b>Schulich School of Engineering</b></p> <p>UCalgary's hub for innovative engineering education.</p>
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## Exercise 3 Output Screenshot:

Schulich School of Engineering      Electrical Engineering      Chemical Engineering      Biomedical Engineering      Geomatics Engineering

<p>Home About Research</p>  <p><b>Schulich School of Engineering</b> UCalgary's hub for innovative engineering education.</p>	 <p><b>Electrical Engineering Department</b> Powering innovation in electronics and systems.</p>	 <p><b>Biomedical Engineering Department</b> Engineering solutions for health and medicine.</p>	 <p><b>Chemical Engineering Department</b> Advancing processes for a sustainable future.</p>	 <p><b>Department of Geomatics Engineering</b> Mapping and analyzing the world around us.</p>
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