

# WEB PROGRAMMING CERTIFICATE

This certificate program is focused on mastering programming skills required to create and support applications on the web, including mobile web development, and specialized courses on client-side web programming, and a server-side applications course.

## Related Programs Certificate

- Networking and Information Security Certificate (<https://catalog.luc.edu/graduate-professional/graduate-school/arts-sciences/computer-science/networking-information-security-certificate/>)
- Technology Management Certificate (<https://catalog.luc.edu/graduate-professional/graduate-school/arts-sciences/computer-science/-technology-management-graduate-certificate/>)

## Curriculum

The Certificate in Web Programming requires 9 credit hours. For students entering with limited background, CPST 342 Introduction to Web Application Development should be completed first.

Code	Title	Hours
<i>Select three of the following:</i>		9
COMP 422	Software Development for Wireless and Mobile Devices	
COMP 424	Client-Side Web Design	
COMP 441	Human-Computer Interaction	
COMP 425	Rapid Applications Development	
CPST 342	Introduction to Web Application Development <sup>1</sup>	
<b>Total Hours</b>		<b>9</b>

<sup>1</sup> Offered by the School of Continuing Professional Studies.

## Graduate & Professional Standards and Regulations

Students in graduate and professional programs can find their Academic Policies in Graduate and Professional Academic Standards and Regulations (<https://catalog.luc.edu/academic-standards-regulations/graduate-professional/>) under their school. Any additional University Policies supercede school policies.

## Learning Outcomes

Outcomes for all Certificate Programs:

1. Students will have developed new technical skills in the area of their specializations.
2. Students will have a better understanding of the domain contexts within which these skills can be applied.
3. Students will have acquired a credential and additional knowledge allowing them to advance professionally.

4. Students will be prepared to enter a graduate program in the Computer Science Department, with the transfer of certificate credits toward their master's degree.

Outcomes: Web Programming

1. Students will acquire proficiency in object-oriented programming.
2. Students will be able to develop applications incorporating a variety of both client-side and server-side technologies, using appropriate protocols.
3. Students will design interfaces that promote ease of user interaction in a variety of platforms.