



# Web Development & Data Science

Associate of Applied Science

## Program description

The Web Development & Data Science degree will equip you to design and develop dynamic, data-driven web sites for small to mid-size businesses. Highline works closely with industry to ensure that students are learning the most relevant and marketable skills. Students participate in a capstone project for a small business in the community, complete an internship, and attend Emerging Technologies seminars. [Learn More](#)

This degree is a great pathway into the BAS in Cybersecurity & Digital Forensics program at Highline.

## Key advisor

Rav Kang; [rkang@highline.edu](mailto:rkang@highline.edu)  
[Request a faculty advisor.](#)

## Program map

The following program map contains recommended courses to complete your degree. This document does not replace meeting with an advisor. In order to discuss your educational goals and plans a meeting with an advisor is very important.

## Advising Notes

This AAS includes 25 credits of Supporting Course Electives. Discuss these elective choices with an advisor.

\* If you plan to apply for the BAS program, your electives should be CIS 150, CIS 160, CIS 161, CIS 155, and CIS 166. A cumulative GPA of 2.5 is required to apply for the BAS.

**Note:** Not every class is offered every quarter. Talk to a faculty advisor to check when specific courses are being offered.

Updated 10/4/23 by Z. Harris

### 1<sup>st</sup> Quarter: Fall

Courses: 15 credits	Credits	Complete?
ENGL& 101 – English Composition I	5	
CSCI 102 – Website Development	5	
CIS 218 – Database Concepts	5	

#### Action items/milestones

- Declare your program of study/major
- Meet with your advisor to discuss this program map

### 2<sup>nd</sup> Quarter: Winter

Courses: 15 credits	Credits	Complete?
CSCI 132 – Python 1	5	
CSCI 201 – WordPress and E-Commerce Website Development	5	
CSCI 212 – Web Development with JavaScript	5	

### 3<sup>rd</sup> Quarter: Spring

Courses: 15 credits	Credits	Complete?
CSCI 232 – Data Science with Python	5	
CSCI 202 – Web Development II	5	
MATH& 146 – Introduction to Statistics	5	

#### Action items/milestones

- Meet with your advisor prior to completion of 45 credits

### 4<sup>th</sup> Quarter: Fall

Courses: 15 credits	Credits	Complete?
Supporting Course Elective (for BAS, take CIS 150 – OS and Hardware Fundamentals*)	5	
Supporting Course Elective (for BAS, take CIS 160 – Introduction to Networking and Cisco IOS*)	5	
CSCI 116 – Web Programming 1	5	

### 5<sup>th</sup> Quarter: Winter

Courses: 15 credits	Credits	Complete?
Supporting Course Elective (for BAS, take CIS 161 – MS Operating System and Cisco Networking Integration)	5	
CSCI 112 – Animation	5	
CSCI 215 – Web Programming 2	5	

#### Action items/milestones

- Apply for graduation

### 6<sup>th</sup> Quarter: Spring

Courses: 15 credits	Credits	Complete?
Supporting Course Elective (for BAS, take CIS 166 – Network Intrusion Detection*)	5	
Supporting Course Elective (for BAS, take CIS 215 – Introduction to UNIX/Linux*)	5	
SOC 130 – American Diversity	5	

#### Action items/milestones

- Register for commencement

### 7<sup>th</sup> Quarter: Summer

Courses: 3 credits	Credits	Complete?
CIS 140 – CIS Internship	3	