

# HackerYou Course Syllabus

## Advanced Web Development

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### CLASS 1

PROJECT ONE

#### Image Formats, Video and Project Two

Welcome to Advanced Web Development! Today we'll introduce Project One. Students will learn how to build a site from a design that's been provided.

### CLASS 2

#### Responsive Design

No matter what device someone is using, you want them to have the best experience with your website. Using well thought-out HTML and CSS media queries, you will learn how to craft sites that rearrange and restyle elements based on what screen size your user is on.

### CLASS 3

#### Flexbox

In this class, you'll learn how to use Flexbox - a modern CSS property that facilitates building flexible and dynamic layouts. We'll show you everything Flexbox can do through a series of code-alongs.

### CLASS 4

#### Transitions

Transitions can take a design from flat and un-emotive to engaging and lively. Adding transitions to links and hover states adds to the user's experience.

### CLASS 5

#### Transforms

CSS transforms allow us to modify the shape, position, and size of an element. We will look at how, combined with a bit of Javascript, the transform property can be used to build interactions.

### CLASS 6

PROJECT TWO

#### Animations

We've talked about transitions and transforms, and today we'll look at how keyframes are used to produce animations. We'll also introduce Project Two. You can be as creative on this project as you want! Create your own fully responsive multi-page website – for personal use, or a company/charity of your choosing.

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### CLASS 7

#### SCSS

Let's give your CSS superpowers! SASS will help you extend the basic functionalities of CSS by adding features such as variables, nesting, and many more. This will create CSS that is more maintainable, organized, and modular.

### CLASS 8

#### Advanced Selectors

Now that you've mastered basic selectors, we're going to get more complex to help you do some pretty powerful effects without a programming language without the need of JavaScript.

### CLASS 9

#### JavaScript and jQuery

Today we're going to take a peek at JavaScript. This class will give you a pretty good idea of what JavaScript can do, and when we should use it. If you like, you can choose to continue your learning in our part-time JavaScript courses!

### CLASS 10

#### Getting your site online

As you begin to put your site together, it's time to talk servers, FTPs, and domains so you can put your finished project online.

### CLASS 11 & 12

#### Project Work Time

In these final two classes, students have the opportunity to troubleshoot with mentors and put the finishing touches on the final project.

#### PROJECT TWO

#### PROJECT TWO

For this second project, you will build a site from one of several provided design files. One of the best ways to become a better coder is to take an existing design and replicate it in HTML + CSS. This lets you focus solely on your code to improve your technical skills.

#### FINAL PROJECT

Be as creative as you want in this final project! Make a personal website, a portfolio, or a client project. It must be responsive, and should integrate all the tools and tricks you've learned in this class. This is your time to shine. If you nail this project, you will be able to comfortably take on web projects after the course – perhaps even client work!