

## EIP 01 - General Information

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### **Instructor: Abraham Gebrekidan**

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Hours: Tuesdays, 9:30–11:00 A.M. Thursdays, 3:30–5:00 P.M.

### **Course Description**

**EIP 01:** Programming Methodology in JavaScript Introduction to the engineering of computer applications emphasizing modern software engineering principles: object-oriented design, decomposition, encapsulation, abstraction, and testing. Emphasis is on good programming style. This course covers the material using JavaScript, the most common language for implementing interactive web pages. No prior programming experience required.

### **Why JavaScript?**

Computer science is one of the most dynamic disciplines in today's world. Technology changes rapidly, and it is important for programming courses to avoid sinking into obsolescence. After decades of falling behind the main players such as Java in the early 2000s, from a mere scripting language JavaScript has risen to unprecedented popularity in the web domain. We think JavaScript has reached the status of "language of the web". And it would be an exciting opportunity to teach beginners the foundational concepts of programming using JavaScript.

Our reason for experimenting with JavaScript in EIP 01, however, goes beyond its success in the web domain. At its core, JavaScript is a highly expressive and flexible programming language with a surprising level of elegance and beauty. We believe that it will be considerably easier to learn than other strongly typed languages such as C++ or Java, mostly because there are fewer extraneous concepts that get in the way of understanding the fundamental concepts of programming. Our goal in this program is to see whether JavaScript works as well as we expect.

### **Learning Sessions**

Learning sessions are scheduled for Monday, Wednesday, and Friday at 11:30 A.M. in Lathrop 282. Each session will be recorded and the recordings will be made available on the website the following day. The schedule for individual sessions is given on the accompanying calendar reading handout.

### **Web page**

The web page for this course is <https://internship.esetfirst.com/>. All the materials and course announcements will be posted on this website, so be sure to check it frequently.