

**AUSTIN COMMUNITY COLLEGE  
CONTINUING EDUCATION**

**CGI Programming Techniques**

(24 hours)

**ITSE 6002, 6079**

**COURSE SYLLABUS**

**Course Description:** Server side applications and web server configuration, browser and server communication, HTTP headers, HTML forms processing, fast CGI, and applications such as email and online databases. **Prerequisites:** Some previous programming courses or experience as well as Perl Programming for the Web, and Intermediate World Wide Web Authoring and HTML.

**Objectives:** Every student will be able to:

- Describe CGI, languages and applications used for CGI
- Define browser-server communications
- Explain differences between UNIX and NT
- Use language features and script components
- Create forms and scripts that communicate with each other
- Install, troubleshoot and customize prewritten scripts
- Use cookies, databases and security features

**Required Material:** None

**Type of Course:** Short Course

**Evaluation:** Students will be evaluated on their competency in performing a variety of hands-on exercises created to insure the student has achieved all course objectives throughout the course, and class participation. In order to grant CEU credit for a course the students must be able to complete assessment exercises for each part of the course given by the instructor. The instructor will validate each participant's achievement of the course objectives by signing and awarding individual certificates of completion.

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**Course Outline:**

**Introduction to CGI**

1. CGI positioning
2. Languages for CGI
3. Applications

**Server Environment**

1. Browser-server communications
2. UNIX vs. NT
3. Server configuration
4. Environment variables
5. Errors

**Authoring Scripts**

1. Language features
2. Script components
3. Communication between forms and scripts

**Using Prewritten Scripts**

1. Installation
2. Troubleshooting
3. Customization

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**Advanced Topics**

1. Cookies
2. Security
3. Databases
4. Alternatives and enhancements to CGI

**Student Assessment Checklist:**

At the completion of the course each student will be able to:

1. Describe CGI, languages and applications used for CGI
2. Define browser-server communications
3. Explain differences between UNIX and NT
4. Use language features and script components
5. Create forms and scripts that communicate with each other
6. Install, troubleshoot and customize prewritten scripts
7. Use cookies, databases and security features