

CIST 1520 - Scripting Technologies (version 201003L)
 Standard Institutionally Developed College: N/A

EDGE Compatible: No

Pre-requisites: All Required

CIST 1510 - Web Development I (201003L)

Co-requisites: None**Course Description**

Students learn how to use the features and structure of a client side scripting language, explore the features on server side scripting and develop professional web applications that include special effects, interactive, dynamic, validated, and secure forms.

Course Length

| | Minutes | Contact Hour | Semester Credit |
|-------------------------------|-------------|--------------|-----------------|
| Lecture: | 1500 | 30 | |
| Lab 2: | 1500 | 30 | |
| Lab 3: | 0 | 0 | |
| Practicum/Internship: | 0 | 0 | |
| Clinical: | 0 | 0 | |
| Total: | 3000 | 60 | 3 |
| Semester Credit Hours: | | | 3 |

Competencies

| Order | Description | Lecture | Lab2 | Lab3 | Practicum/Internship | Clinical | Total Minutes | Semester Credit Hrs |
|-------|--|-------------|-------------|----------|----------------------|----------|---------------|---------------------|
| 1 | Scripting Languages | 100 | 100 | 0 | 0 | 0 | 200 | |
| 2 | Develop Web Pages using Variables, Expressions and Operators | 300 | 300 | 0 | 0 | 0 | 600 | |
| 3 | Develop Web Pages with Arrays, Loops, and Conditional Statements | 300 | 300 | 0 | 0 | 0 | 600 | |
| 4 | Develop Web Pages with Special Effects Including Menus, Images, and Image Maps | 300 | 300 | 0 | 0 | 0 | 600 | |
| 5 | Develop Web Pages using Interactive Forms | 300 | 300 | 0 | 0 | 0 | 600 | |
| 6 | Develop Web Pages using Cookies and Passwords to Maintain Security | 200 | 200 | 0 | 0 | 0 | 400 | |
| | Totals for Course CIST 1520 - Scripting Technologies (version 201003L): | 1500 | 1500 | 0 | 0 | 0 | 3000 | 3 |

Learning Outcomes**Scripting Languages**

| Order | Description | Learning Domain | Level of Learning |
|-------|---|-----------------|-------------------|
| 1 | Compare and Contrast Java and JavaScript. | Cognitive | Evaluation |
| 2 | Compare and Contrast Server-side applications vs. Client-side applications. | Cognitive | Evaluation |
| 3 | Develop scripting elements and writing output to a web document. | Cognitive | Application |
| 4 | Produce professional code with comments and debugging tools and techniques. | Psychomotor | Set |

Develop Web Pages using Variables, Expressions and Operators

| Order | Description | Learning Domain | Level of Learning |
|-------|--|-----------------|-------------------|
| 1 | Utilize variables | Cognitive | Application |
| 2 | Examine onEvent processing and event handlers | Cognitive | Analysis |
| 3 | Examine expressions and operators. | Cognitive | Analysis |
| 4 | Develop web pages with date/time methods, math methods, and conditional operators. | Psychomotor | Guided Response |

Develop Web Pages with Arrays, Loops, and Conditional Statements

| Order | Description | Learning Domain | Level of Learning |
|-------|---|-----------------|-------------------|
| 1 | Examine creating, populating, and sorting arrays. | Cognitive | Analysis |

| | | | |
|---|--|-------------|-----------------|
| 2 | Utilize the calendar function. | Cognitive | Application |
| 3 | Examine The For and While loops. | Cognitive | Analysis |
| 4 | Examine the switch statement. | Cognitive | Analysis |
| 5 | Examine the Break Command and Continue Command. | Cognitive | Analysis |
| 6 | Develop web pages with links, dates, timed commands, and calculations. | Psychomotor | Guided Response |

Develop Web Pages with Special Effects Including Menus, Images, and Image Maps

| Order | Description | Learning Domain | Level of Learning |
|-------|--|-----------------|-------------------|
| 1 | Utilize image objects, image rollovers, and image maps. | Cognitive | Application |
| 2 | Examine object animation. | Cognitive | Analysis |
| 3 | Examine pop-up menus, pull-down menus, sliding and table menus and menu functions. | Cognitive | Analysis |
| 4 | Examine filters and transitions. | Cognitive | Analysis |
| 5 | Develop professional and interesting web pages with special effects. | Psychomotor | Guided Response |

Develop Web Pages using Interactive Forms

| Order | Description | Learning Domain | Level of Learning |
|-------|--|-----------------|-------------------|
| 1 | Examine Input files, Selection Lists, Option Buttons and Checkboxes. | Cognitive | Analysis |
| 2 | Implement calculated fields. | Cognitive | Application |
| 3 | Examine Form Validation. | Cognitive | Analysis |
| 4 | Develop web pages with interactive forms using validation. | Psychomotor | Guided Response |

Develop Web Pages using Cookies and Passwords to Maintain Security

| Order | Description | Learning Domain | Level of Learning |
|-------|---|-----------------|-------------------|
| 1 | Examine cookie properties and values. | Cognitive | Analysis |
| 2 | Develop web pages with personalized greetings and feedback using cookies. | Psychomotor | Guided Response |

References

| Order | Reference Type | Description |
|-------|----------------------------|--|
| 1 | Book with Author(s) Listed | Carey, Patrick. (2010). New Perspectives on JavaScript and AJAX, Comprehensive,. (2nd). Florence, KY : Course. |
| 2 | Book with Author(s) Listed | Gosselin, Don. (2011). Web Technologies Series. (5th). Florence, KY: Course. |
| 3 | Book with Author(s) Listed | Flanagan,David. (2006). JavaScript: The Definitive Guide. (Fifth Edition Activate Your Web Pages). Sebastopol, CA: O'Reilly Media, Inc.. http://oreilly.com/catalog/9780596101992 |
| 4 | Book with Author(s) Listed | Goodman, Danny. (2004). JavaScript Bible. (5th). Indianapolis, Indiana: Wiley Publishing,Inc.. www.wiley.com |
| 5 | Book with Author(s) Listed | Heilmann. (2006). Beginning JavaScript with DOM Scripting and Ajax: From Novice to Professional. (1st). New York: Apress. www.apress.com |
| 6 | Book with Author(s) Listed | Yank, Kevin and Adams, Cameron. (2007). Simply JavaScript. (1st). VIC Australia: SitePoint Pty. Ltd.. www.sitepoint.com |
| 7 | Book with Author(s) Listed | Crockford, Douglas. (2008). JavaScript: The Good Parts. (1st). Sebastopol, CA: O'Reilly Media. http://oreilly.com/catalog/9780596517748 |
| 8 | Book with Author(s) Listed | Resig, John. (2006). Pro JavaScript Techniques: The Ultimate JavaScript book for the modern Web Developer.. (1st). New York: Apress. www.apress.com |
| 9 | Book with Author(s) Listed | Harmes, Ross and Diaz, Dustin. (2008). Pro JavaScript Patterns. (1st). New York: Apress. www.apress.com |