

# Component I: Core

## Module E: Computers

### Topic 4: Internet Research

#### Statement of Purpose

To prepare the learner with basic knowledge and skills necessary to navigate the Internet.

#### Student Learning Outcomes

Upon completion of this topic, the learner will be able to:

1. Spell and define key terms.
2. Understanding the Internet.
3. Identify features of various Internet browsers.
4. Identify methods of connecting to the Internet.
5. Conduct basic and advanced Internet searches.
6. Use Favorites and History for Internet searches.
7. Understand web address naming protocol.
8. Downloading from the Internet.
9. Be aware of Internet security and computer protection programs.

#### Terminology

- |   |                                     |
|---|-------------------------------------|
| 1. Bandwidth  |                                     |
| 2. Bookmark   |                                     |
| 3. Broadband  |                                     |
| 4. Browsers   |                                     |
| 5. Cable  |                                     |
| 6. Dial up  |                                     |
| 7. Digital Subscriber Line (DSL)                            |                                     |
| 8. Domain name  |                                     |
| 9. Download   |                                     |
| 10. Favorite  |                                     |
| 11. Firewall  |                                     |
| 12. Hackers   |                                     |
| 13. History   |                                     |
| 14. Home page   |                                     |
| 15. Hyperlink   |                                     |
| 16. Hypertext Transfer Protocol (HTTP)                      |                                     |
| 17. Hypertext Transfer Protocol over Secure Sockets (HTTPS) |                                     |
| 18. Internet Protocol Address (IP)                          |                                     |
|   | 19. Internet Service Provider (ISP) |
|   | 20. Keyword                         |
|   | 21. Link                            |
|   | 22. Mobile Computing and Apps       |
|   | 23. Phishing                        |
|   | 24. Search Engine                   |
|   | 25. Secure Sockets Layer (SSL)      |
|   | 26. Spam                            |
|   | 27. Surfing                         |
|   | 28. Uniform Resource Locator (URL)  |
|   | 29. Virus                           |
|   | 30. Web page                        |
|   | 31. Website                         |
|   | 32. Wi-Fi hotspot                   |
|   | 33. Wireless                        |
|   | 34. Wireless router                 |
|   | 35. World Wide Web                  |

#### References

1. Hogan, L., (2013). *Practical Computing* (3<sup>rd</sup> Ed.) Upper Saddle River, NJ: Pearson/Prentice Hall.
2. Joos, I., Nelson, R., & Smith, M.J., (2009). *Introduction to Computers for Healthcare Professionals* (5<sup>th</sup> Ed.) Burlington, MA: Jones & Bartlett Learning.
3. Miller, M. (2011), *Next Series: Introduction to Google Apps, Productivity Apps*, Prentice Hall.

4. Keator, V. (2011), *Skills for Success with Computer Concepts, Getting Started*. Prentice Hall.

Content Outline/Theory Objectives	Suggested Learning Activities
<p><b>Objective 1</b>  <b>Spell and define key terms.</b></p> <ul style="list-style-type: none"> <li>A. Review the terms listed in the terminology section.</li> <li>B. Spell the listed terms accurately.</li> <li>C. Pronounce the terms correctly.</li> <li>D. Use the terms in their proper context.</li> </ul>	<ul style="list-style-type: none"> <li>A. Games: word searches, crossword puzzles, Family Feud, Jeopardy, bingo, spelling bee, hangman and concentration.</li> <li>B. Administer vocabulary pre-test and post-test.</li> <li>C. Discuss learning gaps and plan for applying vocabulary.</li> </ul>
<p><b>Objective 2</b>  <b>Understanding the Internet.</b></p> <ul style="list-style-type: none"> <li>A. History of the Internet.</li> <li>B. World Wide Web.</li> <li>C. Internet protocols.</li> <li>D. Connecting to the internet.</li> </ul>	<ul style="list-style-type: none"> <li>A. Lecture/Discussion</li> <li>B. Assigned Readings</li> <li>C. Use computer assisted learning/workbook activities.</li> <li>D. Connect to the Internet and have students enter their names in the address bar of Google.com. Discuss the search results.</li> </ul>
<p><b>Objective 3</b>  <b>Identify features of various Internet browsers.</b></p> <ul style="list-style-type: none"> <li>A. Google Chrome.</li> <li>B. Internet Explorer.</li> <li>C. Safari (Mac users).</li> <li>D. Firefox.</li> <li>E. Opera.</li> <li>F. Other search engines.</li> </ul>	<ul style="list-style-type: none"> <li>A. Lecture/Discussion</li> <li>B. Assigned Readings</li> <li>C. Use computer assisted learning/workbook activities.</li> <li>D. Schedule time in a computer lab for students to experiment with the different browsers.</li> <li>E. Form groups to work with each browser and have students identify features and options of each browser.</li> </ul>
<p><b>Objective 4</b>  <b>Identify methods of connecting to the Internet.</b></p> <ul style="list-style-type: none"> <li>A. Cable.</li> <li>B. DSL (Digital Subscriber Line).</li> <li>C. Wireless.</li> <li>D. Satellite.</li> <li>E. Dial-up.</li> <li>F. Selecting a service provider.</li> </ul>	<ul style="list-style-type: none"> <li>A. Lecture/Discussion</li> <li>B. Assigned Readings</li> <li>C. Use computer assisted learning/workbook activities.</li> <li>D. Schedule time in a computer lab for students to practice.</li> <li>E. Have students find website for the local Internet service providers and compare benefits and services offered as well as price.</li> </ul>

<p><b>Objective 5</b>  <b>Conduct basic and advanced Internet searches.</b></p> <ul style="list-style-type: none"> <li>A. Web addresses.</li> <li>B. Web browser screen features.</li> <li>C. Navigating a website.</li> <li>D. Search engines.</li> <li>E. Keywords.</li> <li>F. Filter search options.</li> </ul>	<ul style="list-style-type: none"> <li>A. Lecture/Discussion</li> <li>B. Assigned Readings</li> <li>C. Use computer assisted learning/workbook activities.</li> <li>D. Schedule time in a computer lab for students to practice.</li> <li>E. Ask student to conduct basic and advanced searches of medical procedures.</li> <li>F. Engage the students in a discussion about the validity of information found on the Internet.</li> </ul>
<p><b>Objective 6</b>  <b>Use Favorites and History for Internet searches.</b></p> <ul style="list-style-type: none"> <li>A. Favorites.</li> <li>B. History.</li> <li>C. Cookies.</li> <li>D. Bookmarks.</li> <li>E. Folders.</li> <li>F. Web toolbar.</li> <li>G. Internet Options.</li> <li>H. Clearing the “cache”.</li> </ul>	<ul style="list-style-type: none"> <li>A. Lecture/Discussion</li> <li>B. Assigned Readings</li> <li>C. Use computer assisted learning/workbook activities.</li> <li>D. Schedule time in a computer lab for students to practice.</li> <li>E. Have the students compete in an Internet scavenger hunt.</li> <li>F. Have the students form small groups consisting of two or three students to identify and create folders for favorites.</li> <li>G. Have students view the Internet search history of their computer. Clear the temporary files from the computer.</li> </ul>
<p><b>Objective 7</b>  <b>Understand web address naming protocol.</b></p> <ul style="list-style-type: none"> <li>A. Web URL <ul style="list-style-type: none"> <li>1. .com</li> <li>2. .gov</li> <li>3. .edu</li> <li>4. .org</li> <li>5. .mil</li> </ul> </li> <li>B. Surfing the Internet.</li> </ul>	<ul style="list-style-type: none"> <li>A. Lecture/Discussion</li> <li>B. Assigned Readings</li> <li>C. Use computer assisted learning/workbook activities.</li> <li>D. Schedule time in a computer lab for students to practice.</li> <li>E. Start a discussion on the definition of domain names and URLs.</li> <li>F. Have students search for websites with each of the domain designators.</li> </ul>
<p><b>Objective 8</b>  <b>Downloading from the Internet.</b></p> <ul style="list-style-type: none"> <li>A. Familiar and unfamiliar sites.</li> </ul>	<ul style="list-style-type: none"> <li>A. Lecture/Discussion</li> </ul>

<ul style="list-style-type: none"> <li>B. Program files.</li> <li>C. Data files.</li> <li>D. File sizes and types.</li> </ul>	<ul style="list-style-type: none"> <li>B. Assigned Readings</li> <li>C. Use computer assisted learning/ workbook activities.</li> <li>D. Schedule time in a computer lab for students to practice.</li> </ul>
<p><b>Objective 9</b>  <b>Be aware of Internet security.</b></p> <ul style="list-style-type: none"> <li>A. Cloud computing.</li> <li>B. Spyware.</li> <li>C. Malware.</li> <li>D. Virus protection.</li> <li>E. Social networking.</li> <li>F. Identity theft.</li> </ul>	<ul style="list-style-type: none"> <li>A. Lecture/Discussion</li> <li>B. Assigned Readings</li> <li>C. Use computer assisted learning/ workbook activities.</li> <li>D. Schedule time in a computer lab for students to practice.</li> <li>E. Have students open social sites such as Facebook, Linked In, Twitter and YouTube. Discuss societal and professional implications of these sites.</li> <li>F. Discuss security criteria for downloading files and programs.</li> </ul>