



<b>1. Code:</b> 4327	<b>2. Title:</b> Data Handling for Web Sites
<b>3. School/Centre:</b> B & C	<b>4. Module Author:</b> Charles Boisvert
<b>5. Validating Authority:</b> UEA	<b>6. Level:</b> 2
<b>7. Credits:</b> 20	<b>8. Indicative Student Study Hours:</b> 200

<b>9. Modules for which this module is a prerequisite:</b>
<b>10. Modules which are prerequisite for this module:</b>
Web Site Design and Development
Data Analysis and Design
Programming Fundamentals

<b>11. Brief description of module (purpose, principal aims and objectives):</b>
This module is designed to enable learners to develop data-driven applications for the World-Wide Web. It will allow the learner to acquire and practice the necessary skills and knowledge at Level 2. It will cover a range of client and server technologies for data-driven Web applications, including database connectivity and Web services architectures.

<b>12. Learning Outcomes:</b> <i>On successful completion of this module a student will be able to:</i>
<ol style="list-style-type: none"> <li>1. Install and manage a web server</li> <li>2. Develop data-driven applications on a web server</li> <li>3. Develop data-handling client applications</li> <li>4. Understand semantic web and web services architectures</li> </ol>

<b>13. Indicative Content:</b>
<ul style="list-style-type: none"> <li>● The web server market</li> <li>● Installing and configuring a web server</li> <li>● Creating a data-driven application using a server scripting language and database</li> <li>● Parsing and generating XML in client-server Web architectures</li> <li>● Investigating current XML applications, including the semantic web and web services architectures</li> </ul>

<b>14. Delivery Method:</b>	Classroom based	Supported open learning	Distance learning	E-learning	Work Based Learning	Other (specify)
<b>Tick one-&gt;</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If the Delivery Method is <b>Classroom Based</b> please complete the following table:						
	<b>Activity</b> (e.g. lecture, seminar, tutorial, workshop)	<b>Activity Duration(Hrs)</b>	<b>Comments</b>			<b>Learning Outcomes</b>
1	Lecture	80				All
2	Student Managed Learning	120				All
<b>Total Hours</b>		200				

If delivery method is *not* classroom based state lecturer hours to support delivery

<b>15. Assessment</b>							
<b>a) SUMMARY of Assessment Plan</b>							
	<b>Type</b>	<b>% Wt</b>	<b>Agg? Y / N</b>	<b>Pass mark</b>	<b>Wk Due</b>	<b>Comments (including word count &amp; LOs)</b>	<b>Anonymous marking? Y / N</b>
1	Documented Data-driven web site	66	N	40	11	1,500 + data-driven web site	Y
2	Presentation	33	N	40	EOM	15min. Presentation on Web Services Architecture	N
<b>b) FURTHER DETAILS of Assessment proposals (give brief explanation of each assessment activity listed):</b>							
1 A documented and functioning data driven web site for either a real world client or based on a case study							
2 A presentation based on current web services architecture and its application							

<b>16. Learning Resources</b>
Teaching equipment
<ul style="list-style-type: none"> <li>● Computers</li> <li>● Operating System, server and configuration tools for the students to install; database system.</li> <li>● Occasional Internet access</li> </ul>
Print resources
<ul style="list-style-type: none"> <li>● Bucica, M., Darrie, C. (2004): <i>Beginning PHP 5 and MySQL e-commerce: from novice to professional</i>. Apress.</li> <li>● Ray, E. (2005): <i>Learning XML (2<sup>nd</sup> edition)</i>. O'Reilly.</li> <li>● Erl, T. (2004): <i>Service-oriented Architecture: A Field Guide to Integrating XML and Web Services</i>. Prentice-Hall.</li> </ul>

HEQUEST office use:

17. Version number:	18. Date Approved:
19. Approval Event:	
20. Date added to the Module catalogue:	
21. Added by:	