



<p><b>M:</b> Course Objectives / Learning Outcomes  <b>The student will be able to:</b></p> <ol style="list-style-type: none"> <li>1. design effective Graphic User Interfaces (GUI)</li> <li>2. program advanced user interface controls and multi-form projects</li> <li>3. create ActiveX user controls and demonstrate understanding of their deployment and use in foreign projects</li> <li>4. program fundamental file input/output</li> <li>5. integrate ADO.NET database objects with a project requiring the manipulation of complex structured data</li> <li>6. program an application involving Windows device-independent graphics as captured in GDI+</li> </ol>												
<p><b>N:</b> Course Content:</p> <ol style="list-style-type: none"> <li>1. Review of VB .NET essentials</li> <li>2. Advanced Windows controls: Commdialog, Toolbar, StatusBar, Calendar controls, Range controls, TreeView</li> <li>3. Advanced use of Forms: Modal/Modeless dialogs, MDI applications, Visual inheritance</li> <li>4. ActiveX control creation and deployment</li> <li>5. Use of Windows files to store data</li> <li>6. Advanced ADO.NET programming: creating and manipulating databases as complex structured objects</li> <li>7. Introduction to XML for transporting data between formats</li> <li>8. Device-independent graphics using GDI+</li> <li>9. Introduction to Threads for managing asynchronous and synchronous concurrent processes</li> <li>10. Project management: class libraries, assemblies, program deployment, Help file creation</li> <li>11. Web applications in ASP.NET</li> </ol>												
<p><b>O:</b> Methods of Instruction</p> <p><b>The topics will be covered through in-class lectures, seminar sessions, laboratory assignments, reading and research.</b></p>												
<p><b>P:</b> Textbooks and Materials to be Purchased by Students</p> <p><b>Oberg, Robert J., Peter Thorsteinson, Dana L. Wyatt; <i>Application Development Using Visual Basic and .NET</i>; Latest Ed. Prentice Hall</b></p>												
<p><b>Q:</b> Means of Assessment</p> <table style="margin-left: 40px;"> <tr> <td><b>Lab Assignments</b></td> <td><b>20 – 35%</b></td> </tr> <tr> <td><b>Quizzes</b></td> <td><b>0 – 20%</b></td> </tr> <tr> <td><b>Participation</b></td> <td><b>0 – 5%</b></td> </tr> <tr> <td><b>Midterm examination</b></td> <td><b>25 – 30%</b></td> </tr> <tr> <td><b><u>Final examination</u></b></td> <td><b><u>25 – 30%</u></b></td> </tr> <tr> <td><b>TOTAL</b></td> <td><b>100%</b></td> </tr> </table>	<b>Lab Assignments</b>	<b>20 – 35%</b>	<b>Quizzes</b>	<b>0 – 20%</b>	<b>Participation</b>	<b>0 – 5%</b>	<b>Midterm examination</b>	<b>25 – 30%</b>	<b><u>Final examination</u></b>	<b><u>25 – 30%</u></b>	<b>TOTAL</b>	<b>100%</b>
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**R:** Prior Learning Assessment and Recognition: specify whether course is open for PLAR

**Yes**

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Course Designer(s) **P. van den Bosch**

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Education Council / Curriculum Committee Representative

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Dean / Director **Rosilyn G. Coulson**

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Registrar **T. Angus**

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