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| Course Information: |
| College:  | Gateway Technical College |
| Course Title:  | Developing ASP.net Web Apps |
| Course Number:  | 10-152-178 |

**Textbooks:**

**Course Competencies**

Competencies are what learners will be able to do as a result of the learning experience. In this course, the competencies that you must demonstrate are:

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| **#** | **Course Competency:** |
| 1: | Develop programs utilizing programming constructs. |
| 2: | Develop ASP.net applications using Controller and View architecture. |
| 3: | Develop ASP.net applications using Model, Controller and View architecture. |
| 4: | Develop interactive programs utilizing data validation techniques. |
| 5: | Apply the user interface design for a web application. |
| 6: | Plan for search engine optimization and accessibility. |
| 7: | Test web applications. |
| 8: | Develop ASP.net cloud based solution. |
| 9: | Develop applications utilizing authentication and authorization techniques. |
| 10: | Develop applications utilizing globalization and localization techniques. |
| 11: | Develop ASP.net database applications. |

| **Required:** | **Required:** | **Required:** | **Required:** |
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| **Week(s)/ Session:** | **Learning Plan/Description:** | **Targeted Competencies: (#)** | **Assessment Activities, (i.e. Performance Assessment Tasks [PATS], Exam/Quiz, Discussion Board, etc.):** |
| 1 | Develop applications using .net programming constructs. | Develop programs utilizing programming constructs. | Learner completes PAT Programming constructs lab.  Learner answers the assigned questions based on the textbook material.Learner codes the problems in the chapter.Learner solves the assigned business problems. |
| 2 and 3 | Develop applications using Controller and View architecture. | Develop ASP.net applications using Controller and View architecture. |  Learner completes PAT Controller-View lab.Unit test Controller and View programming solution.Learner answers the assigned questions based on the textbook material.Learner codes the problems in the chapter.Learner solves the assigned business problems. |
| 4 and 5 | Develop Model, View and Controller applications. | Develop ASP.net applications using Model, Controller and View architecture. |  Learner completes PAT Model-View-Controller lab. Unit test Model, View and Controller programming solution.Learner answers the assigned questions based on the textbook material.Learner codes the problems in the chapter.Learner solves the assigned business problems. |
| 6 | Apply data validation. | Develop interactive programs utilizing data validation techniques. |  Learner completes PAT Data Validation lab.Learner develops test cases for data validation.Learner answers the assigned questions based on the textbook material.Learner codes the problems in the chapter.Learner solves the assigned business problems. |
| 7 | Apply user interface design. | Apply the user interface design for a web application. | Learner completes PAT User interface design lab.Test user interface application.Learner answers the assigned questions based on the textbook material.Learner codes the problems in the chapter.Learner solves the assigned business problems. |
| 8 | Plan search engine optimization and accessibility. | Plan for search engine optimization and accessibility. | Learner completes PAT Search engine optimization lab. Learner answers the assigned questions based on the textbook material.Learner codes the problems in the chapter.Learner solves the assigned business problems. |
| 9 | Test web apps. | Test web applications. | Learner completes PAT Test web applications lab. Learner answers the assigned questions based on the textbook material.Learner codes the problems in the chapter.Learner solves the assigned business problems. |
| 10. | Apply cloud-based solution. | Develop ASP.net cloud based solution. | Learner completes PAT Cloud based solutions lab. Learner answers the assigned questions based on the textbook material.Learner codes the problems in the chapter.Learner solves the assigned business problems. |
| 11 | Apply authentication and authorization techniques.. | Develop applications utilizing authentication and authorization techniques. | Learner completes PAT Authentication and authorization lab. Learner answers the assigned questions based on the shared websites material Learner codes the problems in the chapter.Learner solves the assigned business problems. |
| 12 | Apply localization and globalization techniques. | Develop applications utilizing globalization and localization techniques. | Learner completes PAT Localization and globalization lab. Learner answers the assigned questions Learner codes the problems in the chapter.Learner solves the assigned business problems. |
| 13 | Apply database applications | Develop ASP.net database applications. | Learner completes PAT Database connectivity lab.Learner answers the assigned questions Learner codes the problems in the chapter.Learner solves the assigned business problems. |
| 14 | n/a  | all | Final Exam Review and Final Exam (textbook/proprietary content) |