IT 103 .NET Programming 3

Course Description: A continuation of IT 102. Topics include creating, debugging, and maintaining Web-based database applications using the .NET framework.

Prerequisites(s): IT 102, IT 111   **Corequisite(s):** No corequisite

Lecture Hours: 2	Lab Hours: 3	Credit Hours: 3
Lab Fee: 105	Supplemental Fee: 0	Purpose:
☐ Transfer Assurance Guide Course (TAG)	☐ Transfer Module Course (TM)	
Course Format: Lec/Lab	Grading: A/B/C/D/F/I	
Delivery Method: ☐ Web ☐ Hybrid X Classroom		
Semesters Offered: X Fall X Spring ☐ Summer		

Course Primary Text:

Title: Professional ASP.NET 4.5 in C# and VB	Edition: 1st
Author(s): Gaylord and others	
Publisher: Wrox Press	

Supplemental Materials:

None

Course Outcomes:

1	Understand 2-tier and 3-tier database programming concepts and methods.
2	Understand the flow of data in 2-tier and 3-tier applications.
3	Know what ADO.Net is and how to use it.
4	Know how to programmatically login and logout and how to programmatically read, add, edit and delete records in a database in 2-tier and 3-tier environments with VB.Net and ASP.Net with either MS Access or MS SQL Server as a backend.
5	Know how to create views and read from the programmatically.
6	Know how to create stored procedures and execute them programmatically.
7	Be able to apply knowledge to create basic database programs for the business environment.

Course Topics:

Week 1	Review of coding standards and basic database programming concepts and methods.
Week 2	Connect and disconnect from a database programmatically in 2-tier application. Load a list from a database programmatically in 2-tier application.

Week 3	Add, edit and delete records in 2-tier application.
Week 4	Review of HTML, DHTML and JavaScript.
Week 5	Introduction to classic ASP web programming.
Week 6	Introduction to ASP.Net with server-side controls.
Week 7	Connect and disconnect from a database programmatically in ASP.Net. Load a list from a database programmatically in ASP.Net. Adding records to a database programmatically in ASP.Net.
Week 8	Deleting and editing records in a database programmatically in ASP.Net.
Week 9	Load, add, edit and delete again but with child table dependencies, more complicated data types and validation with regular expressions.
Week 10	The assignment form: making and breaking relationships programmatically. Making and calling stored procedures programmatically.
Week 11	Status flags for delete and undelete.
Week 12	Final Project.
Week 13	Final Project.
Week 14	Final Project.
Week 15	Final Project.

Methods of Evaluation/Assessment

Homework	70%
Final project	30%

Course Keeper: Robert Nields   Date Completed: 4/1/2019