COP 5595 Component Programming with .NET

Credits: 3 credits


Specific course information

Catalog description: Microsoft .NET is explored as a component-based platform for programming Web and other applications

Prerequisites: COP 3530 Data Structures. COT 5595 can be used as a technical elective in all CS and CE programs.

Specific goals for the course:

Use the .NET platform as a vehicle to master component-based and object-oriented programming, especially in the modern IT context.

Brief list of topics to be covered:

1. Architecture of .NET as a component-based platform

2. Component and object-oriented programming with the C# Programming language

3. The Microsoft SQL Server DBMS

4. Embedding SQL in C# using ADO.NET and LINQ

5. Component-based Web programming with ASP.NET Web Forms and ASP.NET MVC

6. Web services with ASP.NET, WCF, and ASP.NET API