IST-307 **Object Oriented Programming**
This course is designed to serve as an introduction to computer programming in the business environment with a view toward the understanding and learning of the fundamentals of software development. The course is an information systems approach to object oriented programming. The course is also designed to develop a basic and generic foundation in object oriented programming. The course content will include creating simple applications, storing and manipulating data in objects, and changing the program flow with decision. Other areas to be covered will include program loops, encapsulation, arrays and collections, user interface objects, database connectivity and inheritance and polymorphism.

IST-321 **Emerging Technologies**
An examination of emerging technologies and trends that will affect the information systems of the near and distant future. The course will critically evaluate those technologies that 1) are so new that most enterprises haven’t exploited them or 2) are fairly well established, but businesses haven’t fully exploited them. Emphasis will be placed on how these technologies will impact E-commerce.

IST-354 **Business Intelligence, Knowledge Management and Decision Systems**
The purpose of this course is to introduce the student to the concept of expert systems development. The software package VP-Expert will provide the basis of the expert systems development and application to real life business decision-making and prototyping.

IST-410 **Database Systems**
Introduction to application program development in a database environment with an emphasis on loading, modifying and querying the database, discussion and application of data structures, indexed and direct file organizations and models of data including hierarchical, network and relational. Other topics include discussion of storage devices, data administration, data analysis, design and implementation.

IST-411 **Data Communications and Networking**
The features of centralized, decentralized, and distributed systems will be examined. Technology implications of computer hardware, software and communications are discussed as they relate to the design, development and implementation of distributed data processing systems.

IST-458 **Social Media and Multimedia Applications for Business**
The purpose of this course is to introduce the student to social media and multimedia communications and computing technologies, with emphasis on applications to business systems and requirements. The course covers major topics in social media, including blogs, wikis, Web feeds, social networking, tagging, cloud computing, podcasting and Vcasting, and presents a brief overview of advanced and futuristic AI (Artificial Intelligence) technologies that will impact the future of social media and multimedia computing and communications, and will underlie the next generation Semantic Web, aka Web 3.0. Coverage of major topical domains in state-
of-the-art multimedia systems and applications include: digital audio processing for voice, sounds, and music; graphics production and manipulation; animation; digital imaging and the processing, manipulation, and integration of imagery into documents, presentations, web pages, etc.; digital photography and photographic processing; basic Web page design including hypertext, hypermedia, direct generation of HTML code, and the use of integrated tool environments; and video processing using digital formats for movies on workstations and the Web. The course incorporates hands-on student production of basic social media and multimedia projects and exercises, and includes demonstrations of some advanced applications and integrated development environments, and a multimedia production facility tour.