Course Descriptions for all WEB DEVELOPMENT courses
(in order by semester)

ARTA 170 Computer Graphics (Cr4) (2:4)
Introduction to computer graphics and basic design principles. Utilizing Adobe Photoshop and Illustrator software, students will learn the fundamentals of digital design, image editing/scanning and printing. Assignments, both in and outside of the classroom, will be contextually based, providing real world applications with each lesson.

CISC 100 Computer Technology I (Cr4) (4:0)
Introductory course for Computer Information Technology majors with the goal of establishing entry-level skills for three CIT options: Software, Networking, and Web. HTML, programming logic and design, and basic networking concepts will be covered as well as the exploration of CIT careers, and Excel and Word core level skills.

CMTH 102 Speech Communication (Cr3) (3:0)
Basic principles of communication theory and practice, including speech preparation and delivery, and the effective use of critical thinking and listening in relation to intrapersonal, interpersonal, intercultural, and group communication.

ENGL 101 English I (Cr3) (3:0)
A writing-intensive course giving close attention to the process of writing through networked workshops and conferences involved in preparation and revision of drafts. The course develops skills in logical and focused writing, through development of a main point by means of supporting ideas and evidence. In addition, students learn to integrate information from secondary sources through the use of summary, paraphrase, and direct quotation in various forms of thesis-based writing. Prereq. - Competence in reading and writing as determined by English Department through testing and/or course work. Approved for the Honors Program.

ARTA 130 Introduction to Web Site Design (Cr3) (2:2)
Introduction to Web Site Design explores online website design and basic programming with industry standard software and basic coding with HTML and Cascading Style Sheets. The course addresses best practices in current web design and web standards as well as methods of publishing web sites via FTP servers. Finally, students will discuss web design careers and freelance design opportunities. Prereq. - ARTA170.

ARTA 180 Digital Design and Typography I (Cr3) (1:5)
Designed to introduce students to the visual and conceptual issues of graphic design and typography. Assignments investigate typography as an element of design whose form and purpose is to convey information in a structured, legible and expressive manner. Students will work with a variety of software applications as they develop their understanding of letterform, graphic design, Gestalt principles, and typographic organization. This course is a combination of lecture, demonstration and hands-on experience. Prereq.- ARTA 170.

CISC 128 Client-side Scripting (Cr4) (4:0)
Includes basic Web site design principles and a variety of languages including XML, HTML, Cascading Style Sheets, DHTML with extensive emphasis on the use of JavaScript. Prereq.- CISC 100 or ARTA 240.
ENGL 151 English II (Cr3) (3:0)
Students continue to develop the academic writing and critical reading skills begun in English I. Students may elect to work on introduction to literature (L), report writing (R), or technical writing (T). Prereq.: ENGL 101. Also available through Online Learning. ENGL 151L (literature option) is approved for the Honors Program and has a designated as a Diversity (D) core course.

ARTA 132 Web Animation (Cr3) (2:2)
This course is designed to introduce students to the many different creative aspects of web animation, while building a strong technical foundation. Students will learn a foundation in the basic principles of animation as well as how to implement them in different types of web animation software. Students are encouraged to experiment with this broad application and find their own personal expression while learning how to apply it to everyday work environments. Prereq. - ARTA 130

ARTA 240 Advanced Web Site Design (Cr3) (2:2)
This advanced course focuses on interface design, web usability, standards-based design, optimization, and cutting-edge interactivity. Students will be exposed to theories of information architecture and content management, which aid in creating more functional, dynamic websites. Students will build on the skills presented in ARTA 130 Intro to Web Site Design to create functional, compliant, and aesthetically pleasing websites. Prereq.- ARTA 130.

CISC 158 Server-side Scripting (Cr4) (4:0)
Server-side scripting covers topics related to the creation of dynamic web pages using interactive scripting languages for web development. Prereq.- CISC 128, pre- or coreq - CISC 270. Offered fall semester only.

CISC 270 Data Base Systems (Cr4) (4:0)
An introduction to the concepts of structures of data base systems. Definition, creation, and maintenance of data base systems; logical models of data organization such as hierarchical, network, and relational; data base integrity and security, effects of redundancy, specification and design of query functions, data entry and retrieval, query languages. Prereq. - CISC 104 or 128. Offered fall semester only.

CISC 208 Mobile Development (Cr4) (4:0)
This course is a comprehensive overview of developing native mobile apps for a variety of platforms. The focus is on group work from students majoring in a variety of disciplines with the goal of creating real-world products that exemplify the strengths of Communication Design, Web Development and Computer Science students. Prereq.- CISC 158, and 270 or CISC 125. Offered spring semester only.

CISC 150 Object-Oriented Programming (Cr4) (4:0)
This course provides an introduction to object-oriented programming using Java. Basic programming structures such as input, output, decisions and loops, as well as concepts of object-oriented design are covered. Inheritance, polymorphism, data types such as arrays, strings, enumerated types, and graphical user interfaces are also included. Prereq.- CISC 115 or 128. Offered spring semester only.

CISC 201 Advanced Web Technologies (Cr4) (4:0)
In this capstone course in the Web Development program, students will use cutting-edge technologies focused on interactivity, design and web standards. Students will apply knowledge of database design,
programming, client-side scripting, and server-side programming to create functional, dynamic and aesthetically pleasing websites. Prereq. - ARTA 130, CISC 158 and 270. Offered spring semester only.