BSC-2099C
Gross Anatomy
2 Credits
Introduction to gross anatomy of the human body for students on an Allied Health or pre-medical track. Students are introduced to each major system of the body; and will study anatomic and functional interrelationships between the muscles, nerves, vessels, and organs of the human body, and dissect a human cadaver.
Prerequisites: BSC-1086 and BSC-1086L

BUL-1241
Business Law I
3 Credits
Covers the main concepts of legal institutions, the legal environment, business ethics, public and private business law, contracts, business regulations the UCC and related laws.

BUL-2242
Business Law II
3 Credits
Covers commercial paper, agency, partnerships, corporations, secured transactions, bankruptcy, securities regulations, real and personal property, trusts, wills and associated legal problems.
Prerequisite: BUL-1241

CAP-1023
Introduction to Game Development
3 Credits
Survey of the various aspects of game development including: game programming and scripting, design, modeling and rendering. Students will work on projects involving design and storyboarding, computer programming and scripting, as well as multimedia presentations and artwork. Aspects of the gaming industry will be covered to include human-computer interaction, mathematical and physics consideration, and the business of game production and distribution.
Prerequisite: CGS-1000

CAP 2023
Game Design and Development
3 Credits
In this hands-on course the student will practice creating 2D and 3D graphics using game and simulation software. The student will perform polygonal as well as nurbs modeling to create programmable 3D objects able to be rendered for simulation software and computer games. Projects include creating objects and performing subdivision modeling to include splitting and extruding surfaces. Also, students will practice various animation techniques using software rendering as well as programming code.
Prerequisite: CAP 1023

CAP 2024
Advanced Game Design and Development
3 Credits
In this hands-on course the student will continue to create animations for computer games and simulation software. The student will perform projects that include using ray tracing rendering, animating motion along a path, programming animation, rendering scenes and apply lighting and shading. Other projects allow the student to apply inverse and forward kinematics to create movement along nurbs and splines, as well as applying dynamics with particles and emitters. Rendering objects for use in computer game engines will also be covered.
Prerequisite: CAP 2023

CAP-2816
Database Management II
1 Credit
Focuses on advanced data file techniques. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: CGS-1540 or permission of the instructor

CAP-2840
Personal Financial Management
1 Credit
Focuses on using a computer to manage personal finances, with an emphasis on determining a budget, entering checkbook information, preparing a personal net worth statement and keeping a record of monthly expenses.

CAP-2939
Digital Media/Multimedia Technology Capstone
3 Credits
The capstone course is designed for the student to demonstrate his/her knowledge and skills applicable to the degree core competencies and outcomes. The course is designed as a project-based experience. The student's project requirements will be designed in concern with his/her area of curriculum emphasis.

CCJ-1010
Introduction to Criminology
3 Credits
Focuses on the complex factors related to crime in America, including basic issues, scope and economic impact.

CCJ-1020
Introduction to Criminal Justice
3 Credits
Covers the historical and philosophical backgrounds of criminal justice agencies and examines the development of the courts, correctional agencies, and law enforcement processes. Topics include the Supreme Court, the 14th Amendment, individual rights, and requirements and opportunities in the law enforcement and correctional fields.

CCJ-1500
Juvenile Delinquency
3 Credits
Focuses on the history, nature, causes and scope of juvenile crimes with an examination of the justice system and treatment facilities.

CCJ-1935
Seminar on Criminal Justice Issues
3 Credits
Focuses on selected topics and issues not usually covered in other courses.

CCJ-2013
Introduction to Victimology
3 Credits
This course is about victims of crime. It provides an introductory level review of the many facets of criminal victimization and the efforts to assist crime victims. The course covers a wide range of topics including trends and interpretations of victimization research, laws, programs, and services, the emotional and social impact of crime, victim rights and restitution and the extent of participation by victims in the criminal justice process.
CCJ-2191
Introduction to Human Behavior in Criminal Justice
3 Credits
This course provides a study of human nature and the peculiarities of human behavior and how it relates to crime and delinquency with emphasis on how this behavior relates to the duties and responsibilities of the criminal justice practitioner. The course will emphasis abnormal behavior and how criminal justice practitioners should react with primary emphasis on the behavioral aspects of people in crisis situations and how criminal justice practitioners should respond. The course will deal with issues of police crisis intervention and crisis management.

CCJ-2610
Introduction to Criminal Typologies
3 Credits
The primary goal of this course is for students to recognize and understand the utility of constructing typologies as a precursor to understanding criminal behavior. Students will review the differences in varying patterning of criminality.

CCJ-2910
Directed Research
3 Credits
An individualized study project which applies the objective approach in the observation and reporting of information relating to social problems, with a focus on understanding and interpreting data, as well as basic statistics. Documented research paper required and must relate to a criminal justice subject area in which internship is being done.
Prerequisite: CJT and Justice Administration majors only; permission of the instructor. College level reading and writing skills required.
Corequisite: CCJ-2940

CCJ-2940
Criminal Justice Internship
3 Credits
Provides an opportunity for the student with no criminal justice experience to observe the criminal justice system in operation. The student will be expected to compare classroom theory with the day-to-day operation of the criminal justice agency and the roles and responsibilities of the professional in the field. The student will be required to spend a total of 100 clock hours, spread over the semester, in the agency.
Prerequisite: CJT and Justice Administration majors only; permission of the instructor.

CDA-1162
Telecommunications
3 Credits
Focuses on the latest advances in telecommunications systems for both the home and office, and how they interconnect. Emphasis is on topics such as electronic mail, data communications systems, telephone systems and satellite communications centers.
Prerequisite: CGS-1000

CEN-1301
Microsoft Windows Server
3 Credits
This course provides students with the knowledge and skills necessary to install and configure Microsoft Windows professional on standalone and client computers that are part of a work group or domain. In addition, this course provides the skills and knowledge necessary to install and configure Windows 2000 Server to create file, print, Web and terminal servers.
Prerequisite: CEN 1300 or permission of the instructor. Students enrolled in a degree or college credit certificate program must complete all prerequisites.

CEN-1303
System Administration for Microsoft SQL
3 Credits
Provides students with the knowledge and skills required to install, configure, administer, and troubleshoot Microsoft SQL Server client/server database.
Prerequisite: CEN-1301

CEN-1305
Microsoft Windows Implementing and Supporting a Network Infrastructure
3 Credits
This course provides students the knowledge and skills necessary to install, configure, manage, and support a network infrastructure that uses the Microsoft Windows Server products. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: CEN-1301

CEN-1306
Implementing & Supporting MS Exchange Server
3 Credits
This course provides Microsoft Exchange Server support professional with in-depth product information on installing, configuring and administering Exchange Server.

CEN-1308
Implementing and Supporting Microsoft Internet Explorer
2 Credits
Provides students with a strong foundation in the architecture and key features of Microsoft Internet Explorer. Information provided in this course enables students to set up, configure, use, and deploy Internet Explorer in a network environment - with particular emphasis on intranet use. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: CEN-1301

CEN-1309
Implementing and Supporting Microsoft Systems Management Server
3 Credits
Provides students with the knowledge and skills necessary to implement, administer, and troubleshoot information systems that incorporate Microsoft Systems Management Server (SMS). Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: CEN-1305

CEN-1310
Implementing and Supporting Microsoft Site Server
3 Credits
Provides students with the knowledge and skills necessary to implement, administer, and troubleshoot information systems that incorporate Microsoft Site Server version. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: CEN-1305
CEN-1320
Ms Windows Implementing and Administering Directory Services
3 Credits
This course is designed to provide students with the knowledge and skills necessary to install, configure and administer Microsoft Windows Directory services in an enterprise environment.
Prerequisite: CEN-1305

CEN-1321
Microsoft Windows Designing a Directory Services Infrastructure
3 Credits
Provides students with the knowledge and skills necessary to design an MS Windows directory services infrastructure in an enterprise network.
Prerequisite: CEN-1320

CEN-1327
Plan and Maintain MS Windows Network Infrastructure
3 Credits
This course covers the subject matter of Microsoft's exam 70 293, which focuses on Windows Server 2003. More specifically, the student will learn how to plan and maintain a Windows Server 2003 network infrastructure. First, the student will examine the network infrastructure planning process and then plan server roles. Secondly, the student will plan and optimize network connections; plan and implement monitoring; plan data protection and recovery. Finally, the student will learn how to troubleshoot infrastructure problems and create the master network infrastructure plan.

CEN-2313
Database Design/SQL Server
3 Credits
Provides students with the technical skills required to implement a database solution with the Microsoft SQL Server client/server database management system, based on a case-study design. Lab exercises allow hands-on implementation of the case-study design. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: CEN-1303

CEN-2314
Querying Microsoft SQL Server with Transact-SQL
3 Credits
The goal of this course is to provide students with the technical skills required to write basic Transact-SQL queries for Microsoft SQL Server. This course will help the student prepare for the following Microsoft Certified Professional exam: 70-229. May be offered as independent study.
Prerequisite: CEN-2313

CEN-2316
Microsoft Proxy Server
3 Credits
This course covers installing, configuring, and troubleshooting Microsoft Proxy Server. In addition, this course will cover the basic architecture of the server, different methods of controlling access to the Internet, using Internet Service Manager to administer Proxy Server, configuring the cache, interoperability with other networks, enhancements to Performance Monitor, methods of improving performance, and other features of Proxy Server. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: CEN-1302 and CEN-1303

CEN-2939
Network Administrator Capstone
3 Credits
The capstone course is designed for the student to demonstrate his/her knowledge and skills applicable to the degree core competencies and outcomes. The course is designed as a project-based experience. The student's project requirements will be designed in concern with his/her area of curriculum emphasis.

CET-1114C
Basic Digital Systems
3 Credits
This course is an introduction to basic digital electronics and is for the student who has previously taken EET-1083C, Electronic Orientation, or will be taking both classes in the same semester. Topics covered in this course are computer number systems, Boolean algebra, combinational logic circuits, logic family characteristics, and flip flops. Laboratory exercises will be assigned to reinforce the major concepts covered in the lecture segment of the course.

CET-1122C
Introduction to Microprocessors
3 Credits
Presents introductory material on microprocessing. Topics include the microprocessor chip and its architecture, bus systems, memory map, input/output devices, interface devices, machine and assembly languages, instructions and addressing modes. Laboratory exercises are included.
Prerequisite: CET-1114C

CET-1172C
Computer Upgrading & Repair
3 Credits
Covers the knowledge and skills necessary for upgrading and repairing the hardware of a typical personal computer (PC). Includes the study of microprocessors, basic bus and input/output (I/O) interface types, and the types of semiconductor memories found in a typical PC. Also studied is the layout of the drives set up by a disk operating system and how the operating system works with the hardware. This course will further prepare the student for the A+ Certification test. Laboratory exercises are included.

CET-1174C
Advanced Computer Repair
3 Credits
This course is for someone working in a computer-related field or has completed CET 1172C. Provides hands-on PC repair experience, based on A+ certification. Covers advanced Windows PC software, hardware, and the most common problems that occur in PCs. IRQs, conflicts, registry, network, and browser problems are covered. Computer service business concepts are introduced. Laboratory exercises are included.
Prerequisite: CET-1172C

CET-1556C
Structured Cabling
3 Credits
Provides the student with the basic concepts in a complete cabling system. Topics include cable types and their characteristics, connector types, cable layouts for a simulated system - backbone, cross connects, etc. - and cable installation, testing and troubleshooting of a cable system. The course includes lab work and a lab fee requirement.
Prerequisite: EET-1083C or CET-1172C
CET-1600  
Cisco Network Fundamentals  
3 Credits  
Prepares a student to apply and understand the basics of networking hardware. Course covers the OSI model and industry standards; network topologies; IP addressing, including subnet masks; and basic network design. This is the first of a 4-part series designed to prepare students for the Cisco Certified Networking Associate exam.  
Prerequisite: CGS-1550 or permission of instructor.

CET-1610  
Cisco Router Technology  
3 Credits  
Designed to prepare a student to apply and understand the basics of networking hardware. The course covers beginning router configurations routed and routing protocols; and introduction to LAN switching. This is the second of a four-part series to prepare students for the Cisco Certified Networking Associate examination. The first part of this series is covered in CGS-1550.  
Prerequisite: CET-1600

CET-2113C  
Digital Systems Analysis  
3 Credits  
This course is a continuation of the basic digital electronics covered in CET-1114C. The analysis of combinational logic and sequential logic circuits is covered in the lecture segment of the course. Circuits include adder/subtractor, registers, counters, multiplexors, and others. Laboratory exercises will be assigned to reinforce these major concepts and circuits.  
Prerequisite: CET-1114C

CET-2152C  
Advanced Microprocessors  
3 Credits  
Covers the communications between the microprocessor and external devices. Topics include writing and debugging communications programs, analyzing and building interface circuits. Laboratory exercises are included.  
Prerequisite: CET-1122C and CET-2113C

CET-2335C  
Microcomputers Systems  
3 Credits  
Covers the hardware of a typical personal microcomputer (PC). It includes the study of a 16-bit microprocessor, basic bus and input/output (I/O) interfaces, and the interfacing of semi-conductor memories found in a typical PC. Devices such as programmable interface adapters, programmable interrupt and direct memory access (DMA) controllers, and serial communications interface adapters are studied. The student will use the schematics of a PC and diagnostic tests to troubleshoot faults in an actual system. Laboratory work is required.  
Prerequisite: CET-1122C and CET-2113C

CET-2615  
Cisco Advanced Router Technology  
3 Credits  
Designed to prepare a student to apply and understand the advanced principles and applications of networking hardware. The course covers advanced router configurations; LAN switching; network management; and advanced network design. This is the third of a four-part series to prepare students for the Cisco Certified Networking Associate examination. Students enrolled in a degree or college credit certificate program must complete all prerequisites.  
Prerequisite: CET-1610

CET-2620  
Cisco Network Project Based Learning  
3 Credits  
Designed to prepare a student to apply and understand the advanced principles, applications, and implementation of networking hardware. The course covers advanced network design projects and advanced network management projects. This is the fourth of a four-part series to prepare students for the Cisco Certified Networking Associate examination.  
Prerequisite: CET-2615

CET-2939  
Computer Engineering Technology Capstone  
3 Credits  
The capstone course is designed for the student to demonstrate his/her knowledge and skills applicable to the degree core competencies and outcomes. The course is designed as a project-based experience. The student's project requirements will be designed in concert with his/her area of curriculum emphasis.  
Credit for this course does NOT apply to the Associate in Arts degree.

CGS-1000  
Introduction to Computers and Technology  
3 Credits  
Provides students with an introductory overview of the Internet, World Wide Web, impact of computer on society and business, historic development of data processing, basic functions and use of word processing, spreadsheet, database, and presentation system and desktop publishing software applications, basic skills using a Web browser and search engine, and careers in the field of computer science.

CGS-1010  
Introduction to Computers for Teachers  
3 Credits  
Covers the major uses of computers in a classroom. A general introduction to computer literacy, including word processing, spreadsheets, databases, telecommunications, and CAI is covered. This course is designed for teachers and can be used for recertification.

CGS-1103  
Project Management  
3 Credits  
This course introduces the student to the basics of project management - in particular as project management applies to Web development. They learn to plan a project, create a project schedule, assign resources and costs, track projects, and share information across projects, applications and the World Wide Web.  
Prerequisite: CGS-1000

CGS-1104  
Accounting Applications  
1 Credit  
Focuses on computerized accounting, with an emphasis on monitoring accounts receivables and payables, checks, processing orders, calculating payrolls, generating management reports and interpreting a general ledger.  
Prerequisite: the ability to type 30 wpm

CGS-1107  
Introduction to Computers  
1 Credit  
An introductory computer literacy course for the general student population with emphasis on current technology and the implications for and the effects on our society. Topics will include cyberspace; communications, including the impact of the Internet and World Wide Web; ethical, privacy, environmental, and health related issues. Software applications will include a brief introduction to Windows, word processing, spreadsheets, and graphics. Students will complete a variety of short cross-curricular projects, integrating critical-thinking skills and cooperative learning.
CGS-1160  
Desktop Information Management  
1 Credit  
A general introduction to the basic capabilities of a desktop information management program, such as Outlook. Topics covered include organizing information, managing your time and schedule, and communicating with other people.

CGS-1500  
Applied Word Processing  
1 Credit  
Focuses on basic word processing applications, with an emphasis on term papers, reports and resumes. Students enrolled in a degree or college credit certificate program must complete all prerequisites.

CGS-1510  
Spreadsheet Applications I  
1 Credit  
Focuses on basic spreadsheet applications such as replication, automatic recalculation, financial modeling, analysis and projection, and general mathematical calculations. Permission of the instructor. Students enrolled in a degree or college credit certificate program must complete all prerequisites.  
Prerequisite: CGS-1000 or OST-1142

CGS-1520  
Business Graphics I  
1 Credit  
Focuses on graphic applications, with an emphasis on developing charts, displaying data in histograms, critical ratio graphs and scatter charts. Topics include line-, vertical-bar, horizontal single-sided and double-sided bar-charts, as well as regression and mean calculations.  
Prerequisite: CGS-1000

CGS-1521  
Introduction to Computers Drawing/Paint  
1 Credit  
Introduces paint/draw computer program. Focuses on simple drawing and editing techniques and manipulating and modifying object.  
Prerequisite: CGS-1000(6114)

CGS-1540  
Database Management I  
1 Credit  
Teaches how to work effectively with a data management application, with an emphasis on assembling and organizing data in manageable records and files.  
Prerequisite: CGS-1000

CGS-1550  
Introduction to Networking  
3 Credits  
Introduces the students to the basics of local area networks. Provides an overview of networking, including a history of development and the uses and benefits of networks. Students are introduced to major network components with a discussion of critical selection considerations. Covers the prerequisite concepts necessary for the Cisco certification program.  
Prerequisite: CGS-1000

CGS-1554  
Internet Basics  
1 Credit  
An introductory course designed to teach the basics of navigating the Internet and the World Wide Web. Topics include “Internetiquette,” using search engines and file transfer protocols. A special fee will be charged for this course.  
Prerequisite: CGS-1000

CGS-1555  
Introduction to the Internet  
3 Credits  
An introductory course designed to teach the basics of navigating the Internet and the World Wide Web. Students participate in online and offline activities such as accessing the Internet, sending electronic mail, browsing newsgroups, and completing research activities. Also discussed is “Internetiquette” - acceptable behaviors and standards of conduct. A special fee will be charged for this course.  
Prerequisite: CGS-1000

CGS-1577  
Presentation Systems  
3 Credits  
Students in this course learn how to design and develop multimedia presentations using linear design. Students learn the differences between a presentation program and an authoring program. Project components will include text, graphics, sound, video, and animation. Students will learn to create, import, and scan these components. Students enrolled in a degree or college credit certificate program must complete all prerequisites.  
Prerequisite: CGS-1000

CGS-1760  
Introduction to UNIX  
3 Credits  
This course is designed to teach the UNIX operating system. Emphasis will be on the UNIX utility commands, the kernel software, and the shell programs. The two UNIX text editors will be covered. This course will be project oriented. Additional topics include Linux and using the X Window GUI.  
Prerequisite: CGS-1000

CGS-1761  
Computer Operating Systems  
3 Credits  
This course provides a basic history and overview of computer operating systems. Basic theories, concepts and terminology, and evolution of computer operating systems are covered. Development, function, and comparisons of common operating systems such as DOS, Windows9x, WindowsNT/2000, Unix/Linux, AS/400, and Mac OS are discussed. In particular, this class is meant to introduce processes such as the processing unit, file systems, process management, synchronization, memory management and I/O management.  
Prerequisite: CGS-1000

CGS-1871  
Multimedia Authoring I  
3 Credits  
Introduces the student to multimedia basics, application structure, and organization. Focus is on the conceptual elements of multimedia implementation and authoring basics. Students enrolled in a degree or college credit certificate program must complete all prerequisites.  
Prerequisite: CGS-1000 and COP-2823
CGS-1936
Perl and CGI
3 Credits
Introduces students to the programming language Perl and its use with CGI. Topics include understanding the basics of programming in Perl and performing tasks such as information processing, data formatting and its retrieval. Additional topics may include using CGI scripts in client-server systems such as the Internet, processing HTML web forms, and accessing database servers. Students enrolled in a degree or college certificate program must complete all prerequisites.
Prerequisite: CGS-1000

CGS-2069
E-Commerce
3 Credits
Prerequisite: CGS-1000

CGS 2091
Information Technology Ethical and Legal Issues
3 Credits
After taking this course the student will be able to identify different types of computer crime and distinguish the various types of law applicable. Existing and emerging legislation pertaining to computer crime will be presented. The student will be exposed to various types of incidents and the proper evidence handling techniques. Ethics codes will be presented and discussed.

CGS-2172
E-Commerce Development
3 Credits
Students will use one of the e-commerce software packages to plan and develop an e-commerce Web site.
Prerequisites: CGS-2820 and CGS-2822 or permission of instructor.
Students enrolled in a degree or college credit certificate program must complete all prerequisites.

CGS-2283
Wide Area Network Fundamentals
3 Credits
This course presents wide area network (WAN) technology theories, concepts, hardware and media. Included are point-to-point and shared multipoint, frame relay, DSL, ISDN, T-carrier, synchronous optical networks (SONET), asynchronous transfer mode (ATM), hybrid fiber coax (HFC) and distributed data interface technologies.
Prerequisite: CGS-1550

CGS-2286
Wireless Networking
3 Credits
This course presents an overview of common wireless technologies such as 802.11a, 802.11g, 802.11g, cellular, PCS, Infrared, and Bluetooth, including theories, concepts of their operation, installation, and basic troubleshooting. Basic computing and common wireless technologies such as analog, AMPS, CDMA, TDMA GSM, 2G, 3G, PCS and ESMR are discussed as well as new trends as they develop. Wireless local area networks and integration with wired networks are also included.
Prerequisite: CGS-1550

CGS-2301
Management Information Systems
3 Credits
Focuses on the role of information systems in the management process, with emphasis on the various aspects of processing data, characteristics of communication and information, and problem solving.
Prerequisite: CGS-1000

CGS-2509
Introduction to Adobe Acrobat
1 Credit
Provides students with the knowledge and skills necessary to create, post to the Internet, and distribute PDF files. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: CGS-1000

CGS-2511
Spreadsheets Applications II
1 Credit
Emphasizes advanced spreadsheet techniques. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: CGS-1510

CGS-2512
Spreadsheets III
1 Credit
This is a continuation of CGS 2511, Spreadsheets II. More advanced concepts and macro programming are emphasized. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: CGS-2511

CGS-2525
Business Graphics II
1 Credit
This is a continuation of CGS 1520, Business Graphics I. Advanced concepts are emphasized. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: CGS-1520

CGS-2541
Database Design
3 Credits
Focuses on the use and development of a database program, with an emphasis on loading, modifying and querying capabilities. Topics include storage devices, data design, administration, analysis and implementation, data structures, indexed and direct file organizations, and hierarchical network and relational models. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: CGS-1000

CGS-2545
Introduction to Web Database
3 Credits
Provides an overview of the relationship of databases to e-commerce. The advantages and disadvantages of different database models will be explored. Students will develop an online database using a scripting language or an application program such as Cold Fusion or Microsoft Access. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: CGS-2541 and CGS-1000
CGS-2763
Unix/Linux Administration I
3 Credits
This course is a continuation of CGS-1760 (Introduction to Unix). The focus is on hands-on Unix system administration. Topics include system administration concepts, system installation and configuration. Additional topics include understanding the Unix file system, configuring basic system hardware and services, managing user accounts, basic system security and backups. Major Unix variants will also be covered. This course continues with CGS-2764 (Unix/Linux Administration II).
Prerequisite: CGS-1000 or permission of instructor

CGS-2764
Unix/Linux Administration II
3 Credits
This course is a continuation of CGS 2760 (Unix Administration I). The focus is on Unix and Linux administration. Topics include creating shell scripts and using scripting tools, software development tools (such as ‘make’ and RCS/CVS), managing documentation and creating ‘man’ pages with ‘nroff’, configuring services including email, printing, file sharing, logging, DNS and FTP. Also covered will be building and configuring custom kernels, kernel modules, patching and updating the kernel and applications, and basic system security. Student will gain hands-on experience installing, configuring and using Linux.
Prerequisite: CGS-2763

CGS-2820
WEB Authoring-HTML
3 Credits
Introduces the student to the fundamentals of Web page authoring. Students will learn how to use HTML to create web pages. They will learn how to generate HTML links, add graphics, create image maps, tables, frames, and forms. Advanced techniques include new HTML tags, virtual reality, audio, and video and presentation of other nonstandard data. They will also learn how to use FTP to upload and download files. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: CGS-1000

CGS-2822
Web Site Creation
3 Credits
This course is designed to introduce the student to software application tools necessary to create a Web site. The student will use and apply a Web site creation program such as FrontPage, Dreamweaver, Cold Fusion, etc. They will have the opportunity to develop a Web site from initial concept to publication.
Prerequisite: CGS-2820 or permission of instructor. Students enrolled in a degree or college credit certificate program must complete all prerequisites.

CGS-2823
Introduction to Active Server Pages
3 Credits
Introduces the student to the process of designing and maintaining interactive and dynamic Web applications with the server-based scripting language Active Server Pages (ASP). The student learns about the interrelationship among the pieces of the ASP architecture, how to choose a scripting language, and how to determine which tasks should be handled client-side instead of server-side via ASP. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: COP-1000

CGS-2825
Web Site Management
3 Credits
Students in this course learn how to establish and maintain a Web environment by concentrating on the establishment and maintenance of Web Servers. Other topics include database access from a CGI script, email, FTP servers, security, firewalls, and Proxy Servers. Students will learn about establishing access policies, MIME types, and enabling CGI scripts. This should be one of the last courses that the student takes in the Internet Services Technology degree. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: CGS-2763

CGS-2874
Multimedia Authoring II
3 Credits
A continuation of CGS 1871 Multimedia Authoring I, with emphasis on advanced authoring skills. Students will develop in-depth projects using video, audio, text, hypertext, and graphics while controlling the program direction. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: CGS-1871

CGS-2876
Digital Audio/Video Design
3 Credits
Introduces the student to the essential software, tools, and techniques commonly used by Web and multimedia designers to produce digital audio and video. Various audio/video programs such as Real Player, Music Match, Cake Walk, Adobe Premiere, and After Effects may be used in this course.
Prerequisite: CGS-2820 or CGS-1871 or CGS-1555

CGS-2877
Digital Animation Design
3 Credits
Introduces the student to the essential software, tools, and techniques commonly used by Web and multimedia authors and designers to produce digital animation effects. Various animation programs such as gif animators, 3D animation applications, Macromedia Fireworks, Flash, and Shockwave may be used in this course as well as multimedia authoring programs such as Macromedia Director or Tool Book.
Prerequisite: CGS-2820 or CGS-1871 or CGS-1555

CGS-2939
Internet Services Technology Capstone
3 Credits
The capstone course is designed for the student to demonstrate his/her knowledge and skills applicable to the degree core competencies and outcomes. The course is designed as a project-based experience. The student's project requirements will be designed in concern with his/her area of curriculum emphasis.

CGS-2940
Web Technology Internship
3 Credits
A coordinated work-study course involving class work and field experience. Students will participate in hands-on activities by assisting with Web page development and/or web server implementation. Objectives determined by the student and faculty-coordinator will be used to evaluate the student. This should be one of the last courses the student takes in the Web Technology A.S. Degree program. The student will attend a minimum of 3 clock hours per week in the internship experience.
CGS-2941  
Networking Services Internship  
3 Credits
A coordinated work-study course involving class work and field experience. Students will participate in hands-on activities by assisting with network support, and networking installation and development. Objectives determined by the student and teacher-coordinator will be used to evaluate the student. This should be one of the last courses the student takes in the Networking Services AS degree. Prerequisites are determined by the instructor.

CGS-2942  
Database Services Internship  
3 Credits
A coordinated work-study course involving class work and field experience. Students will participate in hands-on activities by assisting with database design and development. Objectives determined by the student and teacher-coordinator will be used to evaluate the student. This should be one of the last courses the student takes in the Database Services Technology AS degree. Prerequisites are determined by the instructor.

CHD-1800  
Introduction to Early Childhood Administration  
3 Credits
Designed to provide potential and current early child administrators with the opportunity of satisfying one of the educational requirements for the Foundational Level Child Care and Education Administrator Credential and one of the three courses required for the Level Two Administrator Credential as defined by the State of Florida. It is intended to introduce the needed skills and information in the following areas: developmentally appropriate childcare environments, leadership for childcare settings, financial and legal issues of childcare, and developmentally appropriate education curriculum.
Prerequisites: High School Diploma or equivalent, 30 hour Florida Intro Child Care Course, 10 hours DAP Special Needs, CDA or equivalent.

CHM-1020C  
Chemistry & Society  
3 Credits
A study of how chemicals directly affect our lives, including drugs, biocides, food additives, detergents, cosmetics, and plastics. Laboratory experimentation will be included.
A special fee will be charged for this course.
Prerequisites: College level reading, writing and math skills are required.

CHM-1025  
Modern Chemistry  
3 Credits
Covers an elementary treatment of mathematical tools of the chemist, atomic theory, periodic arrangement of the elements, chemical bonding nomenclature of compounds, chemical reactions, stoichiometry and gas laws. Designed for students with no chemistry background.
Prerequisites: College level reading, writing and math skills are required.
Corequisite: CHM-1025L

CHM-1025L  
Modern Chemistry Laboratory  
1 Credit
Accompanies CHM 1025. Topics include laboratory techniques, measurement, chemical reactions, abbreviated qualitative analysis, quantitative chemistry techniques and gas law applications.
A special fee will be charged for this course.
Prerequisites: College level reading, writing and math skills are required.
Corequisite: CHM-1025

CHM-1032  
Chemistry for Health Sciences  
3 Credits
A chemistry course designed for allied health programs. Focuses on basic chemical and physical principles applied to the life process. Topics include inorganic, organic, and physiological chemistry. Mathematics applications are minimal.
Prerequisites: College level reading, writing and math skills are required.
Corequisite: CHM-1032L

CHM-1032L  
Chemistry for Health Sciences Laboratory  
1 Credit
Accompanies CHM-1032. Topics include laboratory techniques, measurement, chemical bonding, radioactivity, gases, and examples of common inorganic, organic, and biological reactions.
Corequisite: CHM-1032

CHM-1045  
College Chemistry I  
3 Credits
First part of a two-semester sequence; topics include advanced treatment of stoichiometry, atomic theory, chemical bonding, liquid and solid behavior, solutions and thermochemistry.
Prerequisites: CHM-1025 or satisfactory grade on the chemistry placement test and MAC 1105 (or as a Corequisite). College level reading, writing and math skills are required.
Corequisite: CHM-1045L

CHM-1045L  
College Chemistry I Laboratory  
1 Credit
Accompanies CHM 1045. Topics include analytical techniques, physical property determinations, gas laws and thermochemical processes. A special fee will be charged for this course.
Prerequisite: College level reading, writing and math skills are required.
Corequisite: CHM-1045

CHM-1046  
College Chemistry II  
3 Credits
Second part of a two-semester sequence; topics include liquid and solid behavior, physical properties of solutions, kinetics, chemical equilibria, electrochemistry and chemical thermodynamics.
Prerequisites: CHM-1045. College level reading, writing and math skills are required.
Corequisite: CHM-1046L

CHM-1046L  
College Chemistry II Laboratory  
1 Credit
This course accompanies CHM 1046. Topics include spectrophotometric determinations, chemical kinetics, electrochemistry, inorganic qualitative analysis and chemistry equilibria.
A special fee will be charged for this course.
Prerequisite: CHM-1045L. College level reading, writing and math skills are required.
Corequisite: CHM-1046
CHM-2132C
Chemical Instrumentation
3 Credits
An introduction to a variety of chemical analysis methods and corresponding instrumentation commonly employed in a chemical laboratory or industry setting. The course will combine lecture/discussion with chemical laboratory experiences to give both a foundation in the principles behind the methods and extensive hands-on laboratory experience geared to the workplace. Fundamentals of instruments are demonstrated but the emphasis is placed on the applications in which the instruments are used.
Prerequisites: CHM-1046 and CHM-1046L

CHM-2210
Organic Chemistry I
4 Credits
First part of a two-semester sequence. Focus is on the chemistry of hydrocarbons. Topics include nomenclature, chemical bonding, synthetic methods, characteristic reactions, spectroscopic analyses, reaction mechanisms and structure determinations.
Prerequisite: CHM-1046 and CHM-1046L. College level reading, writing and math skills are required.
Corequisite: CHM-2210

CHM-2210L
Organic Chemistry I Laboratory
1 Credit
Accompanies CHM 2210. Topics include organic separations, synthesis, spectroscopy, chromatography and identification of organic compounds.
A special fee will be charged for this course.
Prerequisite: CHM-1046 and CHM-1046L. College level reading, writing and math skills are required.
Corequisite: CHM-2210

CHM-2211
Organic Chemistry II
4 Credits
Second part of a two-semester sequence. Focus is on the chemistry of hydrocarbon derivatives.
Prerequisite: CHM-2210 and CHM-2210L. College level reading and math skills are required.
Corequisite: CHM-2211L

CHM-2211L
Organic Chemistry II Laboratory
1 Credit
Accompanies CHM 2211. Topics include the analysis of NMR spectra, multi-step synthesis and organic qualitative analysis.
A special fee will be charged for this course.
Prerequisite: CHM-2210L. College level reading and math skills are required.
Corequisite: CHM-2211

CIS-1354
Introduction to Network Security
3 Credits
Basic computer and network security theory, concepts and terminology are presented. The CIA triad, basic threats, intrusion techniques, vulnerabilities and their various countermeasures are included. Students will also discuss ethical behaviors and basic security practices for authentication, encryption and secure network topologies.
Prerequisite: CGS-1550 or CEN-1527 or CET-1600

CIS-1930
Business Financial Management
1 Credit
Focuses on computerized applications in management, with an emphasis on inventory control, project management, financial management and expert systems. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: OST-1142

CIS-1931
Microcomputer Concepts
3 Credits
Focuses on using microcomputers to solve business problems, evaluate personal computers and software, and complete a wide range of office tasks. Students enrolled in a degree or college credit certificate program must complete all prerequisites.

CIS-2352C
Ethical Hacking II
3 Credits
Hands-on course teaches students how to hack into information systems using ethical standards. The student will learn system and network penetration testing, the tools and techniques used to exploit vulnerabilities such as social engineering, buffer overflows, etc., and how to defend against attacks.
Prerequisites: CGS-2763 and CIS-1354

CIS-2353
Security Management and Computer Auditing
3 Credits
In this course the student will learn the steps necessary to perform a computer audit. The student will create an audit project plan based on various information technology scenarios and then practice preparing an audit report offering recommendations.

CIS-2355
Advanced Internetworking Security
3 Credits
Advanced computer and network security concepts and terminology are presented with a focus toward internetworked environments. Intrusion threats, intrusion techniques, and vulnerabilities are discussed as are countermeasures and their implementation. Includes installation and use of intrusion detection systems, packet sniffers and network analyzers. Development of comprehensive network security plans, response and recovery plans, and disaster recovery plans are included. Issues in wireless technologies demonstrated.
Prerequisite: CIS-1354

CIS 2359C
Ethical Hacking II
3 Credits
A continuation of Ethical Hacking I with emphasis on advanced techniques.
Prerequisite: CIS 2352C
CIS-2381C
Computer Forensics and Incident Response
3 Credits
The student will design and develop strategies for inspecting potentially corrupted servers, networks and workstations. In this hands-on course the student will practice detecting possible intrusions, inspecting log files, tracking violators. Students will practice computer forensic exercises using detection tools and tracking methodologies.
Prerequisites: CGS 2763 and CIS 1354

CIS-2939
Computer Information Administration Capstone
3 Credits
The capstone course is designed for the student to demonstrate his/her knowledge and skills applicable to the degree core competencies and outcomes. The course is designed as a project-based experience. The student's project requirements will be designed in concert with his/her area of curriculum emphasis.

CIS-2941
Computer Information Internship
3 Credits
A coordinated work-study course involving classwork and field experience. Students will participate in hands-on activities by assisting with PC support, help desk, and/or microcomputer specialist. Objectives determined by the student and teacher-coordinator will be used to evaluate the student. This should be one of the last courses the student takes in the Computer Information AS degree. Prerequisites determined by the instructor. Students enrolled in a degree or college credit certificate program must complete all prerequisites.

CIS-2945
Information Technology Security Capstone
3 Credits
The capstone course is designed for the student to demonstrate his/her knowledge and skills applicable to the degree core competencies and outcomes. The course is designed as a project-based experience. The student's project requirements will be designed in concert with his/her area of curriculum emphasis.
Prerequisites: CTS 2321 and CIS 2359C

CJC-1000
Introductions to Corrections
3 Credits
Provides an introduction to the historical, theoretical and objective understanding of crime, the offender and the correctional process in society. Topics include custodial procedures and theory, correctional treatment, and basic social systems in relation to crime problems.

CJC-2162
Probation and Parole
3 Credits
Explores the history, functions, purposes and operations of community corrections programs within the criminal justice system. Topics include diversion, supervision and treatment of offenders. This course reviews the theories and practices of probation and parole within a community setting, the principles and methods of probation and parole systems at federal, state and local levels, court procedures, the role of the probation and parole officers and their associates in the rehabilitation process will be covered.

CJE-1000
Introduction to Law Enforcement
3 Credits
This course covers the history and philosophy of law enforcement in America including the organization and objectives of local, state and federal agencies. Areas covered will include contemporary problems facing modern law enforcement. The course will also cover the various approaches to modern law enforcement and the selection of and training

CJE-1640
Introduction to Criminalistics
3 Credits
This course explains and discusses the crime laboratory and its procedures, functions and duties. Crime scene procedures and techniques for locating, preserving and security evidence will also be discussed. Selected laboratory techniques and procedures such as comparison and identification of tool markings, blood, hair, fibers, drugs, chemicals, photographs, firearms, ballistics and documents will be explained.

CJE-1642C
Introduction to Crime Scene Technology
3 Credits
This course explains and discusses advanced principals and theories in crime scene technology. This course will cover specialized collection procedures for biological evidence, weapons, traffic crash evidence, arson evidence; gun shot residue, blood spatter and bodies.
Prerequisites: CJE-1640 and CJE-1642C

CJE-1643C
Advanced Crime Scene Technology
3 Credits
This course explains and discusses advanced principals and theories in crime scene technology. This course will cover specialized collection procedures for biological evidence, weapons, traffic crash evidence, arson evidence; gun shot residue, blood spatter and bodies.

CJE-1680
Introduction to Computer Crimes
3 Credits
Provides the student with an overview of crimes involving the use of computer technology and the Internet. It will cover how computer related crimes are committed and how they are investigated. Topics covered will include computer crime scene management and the legal issues involved in the prosecution of computer crimes.

CJE-2004
Career Choices in Criminal Justice
1 Credit
This course will expose the students to the diversity of requirements and career opportunities within the criminal justice system. This course will provide the students with an understanding of the different agencies within the criminal justice system including police, courts and corrections. This course will cover all levels of agencies including city, county, state and federal. The course will also cover careers related to criminal justice including juvenile justice, private investigation and security, and bail bonds agents. The course will cover the roles of these agencies and employment opportunities. The course will also provide students with information on law enforcement academies and strategies for job searching, resumes and job interviews.

CJE-2170
Comparative Police and Criminal Justice Systems
3 Credits
This course will survey contemporary foreign law enforcement and criminal justice systems. This course will compare and contrast selected foreign systems with those of the United States. This course will include a study of the operational and philosophical differences between the various cultural and legal systems studied.
CJE-2233
Drug Abuse and Crime
3 Credits
This course will introduce students to the negative effects of drugs, alcohol, and other substance abuse. This course will cover the problems created by the illegal use of narcotics and other dangerous substances and its relationship to criminal behavior. This course will emphasize the criminal implications and control of drug and substance abuse as well as touching on the social and historical implications.

CJE-2300
Police Administration and Organization
3 Credits
Provides an introduction to the principles of law enforcement, organization and supporting services as they apply to staff functions, personnel recruiting, training, promotions, planning, research, inspection, control, and policy formation. Topics include functions of patrol, criminal investigation, vice control units, juvenile bureau, intelligence, sections, detention facilities, supply and transportation.

CJE-2400
Community Relations
3 Credits
Focuses on the relationship of criminal justice agencies to the community and how social change affects law enforcement, corrections and the courts.

CJE-2671C
Latent Fingerprint Development
2 Credits
This course explains and discusses the techniques involving detection, enhancement and recovery of latent fingerprints from physical evidence. This course will cover mechanical and chemical methods and surfaces will be analyzed and evaluated for application in both theory and practice.

CJE-2672C
Fingerprint Classification
2 Credits
This course explains and discusses the Henry modified system of fingerprint classification. This course will deal with all aspects of fingerprint classification, identification, and filing systems and will prepare the student to conduct inked fingerprint examinations.

CJE-2673C
Forensic Photography
3 Credits
This course explains and covers basic crime scene photography skills, including camera operation, exposure control, proficiency in relational photos, and flash control for crime scene and evidentiary documentation. The course will also cover special light sources and the use of filters, specialized equipment, digital cameras, and hand held video camera-recorders.

CJL-1100
Criminal Law
3 Credits
Focuses on the classification and analysis of criminal acts, such as homicide, rape, assault, robbery, larceny, burglary, and auto thefts, with an emphasis on specific cases and selected court decisions. Topics include court organization, court orders, writs, warrants, and other papers.

CJL-1500
Introduction to the Court System
3 Credits
This course examines the history, traditions and philosophy of the American court system. Emphasis will be placed on the roles of the prosecutor, the judge, the defense attorney, the jurors, the defendants and the public. The course will focus on the general themes of law on the books, law in action and law in controversy. Course content will include an overview of the structure and operations of the court system with special emphasis on the Florida Court System.

CJL-2072
Civil Rights-Liability in Criminal Justice
3 Credits
This course will provide students with an overview of federal civil rights legislation and state federal tort law as it applies to criminal justice topics covered will include practitioner and supervisor liability, 1983 actions, 241 crimes, wrongful death actions, and various personnel laws including ADA, EEOC, age and sex discrimination and sexual harassment.

CJL-2130
Criminal Evidence and Procedure
3 Credits
Provides an introduction to criminal procedures such as arrest, search and seizure, use of force and handling evidence. Topics include the legal use and degree of force, rights of suspects and arrested persons, types of evidence, admissibility, proof and competence of evidence as related to criminal law and recent court decisions.

CJL-2610
Courtroom Presentation/Scientific Evidence
3 Credits
This course explains and discusses how to present physical, documentary, and scientific evidence in the courtroom. The course will cover proper dress, speaking, listening, and stress will be explained. The student will understand how to present courtroom testimony, especially in areas of scientific evidence. The course will also include how to prepare and present visual aids and exhibits collected at crime scenes. The course will include mock trial exercises.

CJT-2100
Criminal Investigation
3 Credits
Covers methods of investigation, interviews, interrogation, electronic equipment, surveillance and sources of information, with an emphasis on case preparation and problems in criminal investigations.

CLP-1000
Psychology of Personal Growth
3 Credits
Covers the origin and development of individual needs and personality patterns, approaches to self-management, and self-control and assessment of personal value systems. Emphasis is on personal awareness and experientially-based activities. is not acceptable as a prerequisite for other psychology courses.
CLP-2001
Advance Psychology of Personal Growth
3 Credits
An existential experimental approach to human behavior which focuses on awareness of ourselves, effective communication and problem-solving skills involved in human interactions.
Prerequisite: CLP-1000

COP-1000
Programming Logic
3 Credits
Introduces programming logic, with an emphasis on problem definition, flow charts, tables, control breaks, and multi-record single processing programs. Topics include read process-write loops, array creation and retrieval, and documentation standards. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: CGS-1000

COP-1120
COBOL, Beginning
3 Credits
Introduces the computer programming for business, with an emphasis on program design and development, generating reports and creating files. Topics include structured programming, testing, implementation and documentation, file structures, input and output devices, table processing and operating system facilities.
A special fee will be charged for this course.
Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: COP-1000

COP-1220
Programming in “C”
3 Credits
Introduces programming in the “C” language with an emphasis on basic input/output functions. Topics include interactive programming, style and methodology, top-down design and structured programming. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: COP-1000

COP-1704
DBMS/SQL for AS/400
3 Credits
The student will learn to manipulate data to extract the required information through the use of external database manager software. Topics include designing the database, creating it by loading in the data, and accessing the data once loaded. Methods of access will include interactive manipulation, user-written procedures, and access through other languages.
Prerequisite: CGS-1062 or permission of instructor. Students enrolled in a degree or college credit certificate program must complete all prerequisites.

COP-1812
Introduction to XML Authoring
3 Credits
This course teaches students how to use XML to create customized tags for Web pages and to work effectively with XML. Students will develop Web sites integrating XML into their projects. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: COP-1000

COP-1820
Visual BASIC, Beginning
3 Credits
Provides a basic overview of Windows programming and applications. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: COP-1000

COP-1821
Visual BASIC, Advanced
3 Credits
Advanced course focusing on the development of Windows applications using an event driven programming system. Topics include arrays, data structures, and developing PEN applications. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: COP-1820

COP-2121
COBOL, Intermediate
3 Credits
An advanced course using COBOL, with an emphasis on sequential and random access files, processing techniques and program development. Topics include structured programming, batch and interactive environments, development, testing implementation and documentation.
A special fee will be charged for this course.
Prerequisite: COP-1120. Students enrolled in a degree or college credit certificate program must complete all prerequisites.

COP-2202
Scientific Programming Applications/FORTRAN
3 Credits
Focuses on the use of the FORMula TRANslation programming language to solve engineering, science and mathematics problems. Topics include numerical methods of integration and simulation.
A special fee will be charged for this course.
Prerequisite: College level math skills are required.

COP-2224
Programming in C++
3 Credits
Focuses on advanced programming in the “C” language, with an emphasis on small and large object-oriented programs using C++. Topics include inheritance, information hiding and operator overloading.
Prerequisites: COP-1000 and COP-1220 or permission of instructor

COP-2344
Shell Scripting
3 Credits
This course is intended for students who have mastered the basic Linux/Unix operating environment and who would like to read and understand the various administrative scripts, and to write scripts to automate day-to-day tasks. This course is designed to teach students skills they need to effectively read, write and debug shell scripts. This course explores in detail the Bash shell scripting language. Major topics covered include reading, writing, modifying, and debugging shell scripts, the shell environment, regular expressions, text filtering with grep, sed, and the awk commands, conditional control statements and loops, interactive scripts, the use of other shell features such as variables, parameters, argument lists, shell functions, shell traps.
Prerequisite: CGS-1760 and COP-1000
COP-2360
Programming in C#
3 Credits
An introductory course to programming in the C# language. Emphasis is placed on the basic data, methods and classes of the C# language. Additionally, object oriented programming concepts will be introduced. Programming style and object oriented methodology will be stressed throughout the course.
Prerequisite: COP-1000

COP-2740
Introduction to Oracle/SQL
3 Credits
Provides an introduction to data server technology. The course covers the concepts of both relational and object relational databases and the SQL programming language. Students are taught to create and maintain database objects and to store, retrieve, and manipulate data. Students learn to retrieve data by using advanced techniques such as ROLLUP, CUBE, set operators, and hierarchical retrieval. They also learn to write SQL and SQL*Plus script files using the ISQL*Plus tool to generate report-like output. Demonstrations and hands-on practice reinforce the fundamental concepts.
Prerequisite: CGS-2541

COP-2741
Oracle Database Administration Fundamentals I
3 Credits
Students learn how to design, create, and maintain an Oracle database. Architectural components and globalization are introduced.
Prerequisite: COP-2740

COP-2742
Oracle Database Administration Fundamentals II
3 Credits
Students learn several methods to backup and to recover Oracle databases. They develop skills for basic network administration and learn how to work with Oracle Recovery Manager.
Prerequisite: COP-2741

COP-2744
Oracle Database Performance Tuning
3 Credits
This course will introduce participants to the importance of good initial database design, and the method used to tune a production database. The focus is on Database and Instance tuning rather than specific operating system performance issues.
Prerequisite: COP-2742

COP-2745
Programming with PL/SQL
3 Credits
This course introduces the student to PL/SQL and the benefits of this programming language. The student will learn to create PL/SQL blocks of application code that can be shared by multiple forms, reports, and data management applications. They learn to manage PL/SQL program units and database triggers, to manage dependencies, to manipulate large objects, handle exceptions and to use some of the Oracle-supplied package.
Prerequisite: COP-2740

COP-2746
Oracle Forms-Internet Applications I
3 Credits
In this course, student build and test interactive Internet applications. Working in a graphical user interface (GUI) environment, students learn to customize Forms with user input items such as check boxes, list items, and radio groups. They also learn to modify data access by creating event-related triggers.
Prerequisite: COP-2745

COP-2747
Oracle Forms-Internet Applications II
3 Credits
In this course, students broaden their application building skills using Oracle Forms Developer. Students create multiple-form Internet applications and learn to manage multiple transactions across modules. By adding custom menus, reports, and charts they also learn to enhance their applications. Finally, the course teaches students to enhance the user interface for Web-deployed forms using Java Beans.
Prerequisite: COP-2746

COP-2748
Oracle Internet Reports
3 Credits
In this course, students build reports and run them in client-server mode and on the Web. Working in a graphical user interface environment, they learn to retrieve, display, and format data in numerous reporting styles. They also learn to customize more complex reports, embed graphical charts, and use the Reports Server. The course covers building reports for the Web, calling Java applets, using reports administration and security.
Prerequisite: COP-2745

COP-2762
Oracle Basic Server Administration
3 Credits
Students learn the basic tasks which will enable them to effectively administer, monitor and secure an Oracle9iAS environment. After an introduction to Oracle9iAS installation and architecture, students gain hands-on experience configuring its components and modules, such as Oracle HTTP Server, Oracle9iAS Web Cache, and Oracle9iAS Containers for J2EE. Students also learn to deploy PL/SQL applications as well as J2EE applications such as Servlets, JSPs, Web applications and Web Services. Oracle9iAS Single Sign-On (SSO) and Oracle Internet Directory (OID) are introduced as part of the security concept of Oracle9iAS.
Prerequisite: CGS-2541

COP-2800
JAVA Programming
3 Credits
Introduces programming in JAVA. Focus is on object-oriented programming to create stand-alone applications for enhancing Web pages. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: COP-1000 or permission of instructor

COP-2805
JAVA Advanced
3 Credits
A continuation of COP 2800, the focus is on the development of client-server applications, applets, and advanced GUI. Topics include advanced object orientated programming in Java, multi-threading, files, multimedia, database use, and networking concepts used for client-server applications. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: COP-2800 or permission of instructor

COP-2822
Scripting for the Web
3 Credits
Introduces scripting languages used to enhance WEB documents. Focus is on the use of scripts and how they relate to the Web environment. Students will develop applications using a scripting language such as Visual Basic, JAVAScript, and/or Perl. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisites: COP-1000 and CGS-2820
COP-2823
Graphics Design for Multimedia/Internet
3 Credits
Introduces graphics design for the Internet and multimedia projects. Focus is on instructional design process, effective page design, and scanning techniques. Students will use digital imaging software such as Photoshop to create effective computer screen design elements. Color theory and visual communications is introduced. Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: CGS-1000

COP-2826
Advanced Graphics Design for Multimedia/Internet
3 Credits
A continuation of COP 2823. Focus is on advanced graphic design techniques. Students use digital imaging software to prepare graphics for use in Students enrolled in a degree or college credit certificate program must complete all prerequisites.
Prerequisite: COP-2823

COP-2939
Computer Programming Capstone
3 Credits
The capstone course is designed for the student to demonstrate his/her knowledge and skills applicable to the degree core competencies and outcomes. The course is designed as a project-based experience. The student's project requirements will be designed in concern with his/her area of curriculum emphasis.

COP-2940
Computer Programming Internship
3 Credits
A coordinated work-study course involving classwork and field experience. Students will participate in hands-on activities by assisting with programming creation and programming maintenance. Objectives determined by the student and teacher-coordinator will be used to evaluate the student. This should be one of the last courses the student takes in the Computer Programming AS degree. Prerequisites determined by the instructor. Students enrolled in a degree or college credit certificate program must complete all

CRW-1001
Creative Writing I
3 Credits
Focuses on analyzing creative writing through class discussions and readings. Works by students and others will be critiqued. Participation on the staff of the College's literary magazine is encouraged. Prerequisite: ENC-1101 or permission of instructor

CRW-1002
Creative Writing II
3 Credits
Further critical analyses of both the student's own writings and the writings of others combined with the readings and discussions of the process of creative writing. Continuation of the skills developed from CRW 1001. Prerequisite: CRW-1001. College level reading and writing skills are required.

CTS-2310
Windows Security
3 Credits
The student will design and develop strategies for securing a windows-based network, both server and workstation. In this hands-on course the student will practice implementing security on windows servers to include configuring security for application servers and administration servers. Students will practice using monitoring, auditing and performance tools.
Prerequisite: CIS-1354

CTS-2311
Unix/Linux Security
3 Credits
This course covers the concepts and administration of system and network security on Unix and Linux systems. Students will gain the skills needed to protect Unix and Linux servers from various types of threats. Students will understand, plan and implement security on Linux servers including developing security policies, local system security, network security, monitoring systems and networks, basic firewall setup and the use of various security related tools (e.g., PAM, sudo).
Prerequisites: CGS-2764 and CGS-1550. College level reading and writing skills are required.

CTS-2321
Unix/Linux Networking
3 Credits
This course covers the concepts and administration of networking services on Unix and Linux systems. Topics include Windows network integration with SMB (Samba), DNS, email services and other common network services such as DHCP, FTP, LDAP and NTP (network time protocol). Students will receive basic network concepts such as network models and LANs, IPv4, IPv6 and PPP. Students will also gain hands-on experience with basic network security, and network configuration and troubleshooting using common network management tools.
Prerequisites: CGS-2764 and CGS-1550. College level reading and writing skills are required.

CTS-2822
Developing Microsoft ASP.NET Web Applications Using Visual Studio.NET
3 Credits
This course teaches Microsoft Visual Basic programmers and beginning Web developers the fundamentals of Web application site implementation by using Microsoft ASP.NET and Microsoft Visual Basic.NET. This course focuses on using the Microsoft Visual Studio.NET environment and the Microsoft.NET platform to create an ASP.NET Web application that delivers dynamic content to a Web site. This course will help the student prepare for the following Microsoft Certified Professional exams: 70-305 and 70-315.
Prerequisites: COP-1821 and CEN-1305

CTS-2825
Programming with Microsoft ADO.NET
3 Credits
This course introduces developers to data-centric applications and Web services with Microsoft ADO.NET, Microsoft SQL Server, and the Microsoft.NET Framework. This course will help the student prepare for the following Microsoft Certified Professional exams: 70-305, 70-306, 70-315, and 70-316. May be offered as independent study.
Prerequisites: CGS-2541 and COP-1821 or permission of instructor.

CTS-2939
Database Technology Capstone
3 Credits
The capstone course is designed for the student to demonstrate his/her knowledge and skills applicable to the degree core competencies and outcomes. The course is designed as a project-based experience. The student's project requirements will be designed in concern with his/her area of curriculum emphasis.
DAA-1104
Modern Dance II

2 Credits
This studio course will serve as a continuation of Modern Dance I and will further explore basic principles of modern dance technique. It will broaden students' awareness of dance concepts such as momentum, weight shift, rebound and release. It will further develop dance vocabulary, body alignment, and develop an introductory framework for dance aesthetics. Attendance at and written critiques of dance performances will provide deeper insight into the dance field. This course may be taken twice for credit.
Prerequisite: Audition or instructor permission

DAA-1200
Ballet I

2 Credits
Elementary level ballet training for those with entry level skills in ballet. Emphasis is on correct placement and alignment of the body, a knowledge of basic ballet terminology, and the development of spatial awareness as it applies to the execution of ballet exercises, positions and steps. Attendance at written critiques of dance performances provide an enhanced view of the scope of the dance field. This is a studio course and may be repeated twice for credit.
Prerequisite: Audition or instructor permission

DAA-1204
Ballet II

2 Credits
Ballet II is a continuation of Ballet I. Student experiences an intensification of barre work through the use of more complex coordination of the arms and legs. Intensified center work includes more complex floor patterns to develop the use of space in movement sequences. Introduction to steps requiring an advanced beginning expertise in ballet. Leotards, tights and ballet shoes are required. Attendance at and written critiques of dance performances will provide deeper insight into the dance field. May be repeated for credit for a maximum of 4 credit hours.

DAA-1610L
Dance Composition I

2 Credits
This creative studio course examines basic tools of the choreographic craft. Students gain experience in structural movement from simple phrases to complex organizational units through motif development, exploration of shape, space, time, transitions and basic compositional forms. The student will explore solo, partner and group structures, and use various devices to create their own artistic expressions. Reading, writing, and critical analysis of dance included.

DAA-1680L
Dance Ensemble

1 Credit
This creative studio course provides an opportunity for dance performers to work in a repertory company and to explore the various devices and skills of ensemble performance. Culminates in a staged performance. This course is repeatable for elective credit.
Prerequisite: Audition required.

DAA-1800
Dance Basics

1 Credit
Dance Basics is a studio course designed to introduce students with little or no prior training to the basic concepts of dance technique. The emphasis in this class will be placed upon attaining correct body alignment, learning the positions of the arms and feet, and the understanding of time, space, weight and energy as it relates to dance. Students learn basic dance vocabulary while developing strength and musicality.

DAA-1900
Dance Practicum

1 Credit
This activity/analysis course provides for the expansion of the student's range of introduction and performance possibilities in separate or professional skills through a directed study experience. Working with a dance faculty advisor, the student will choose, refine, develop, document and present a project whose intent will be the increase of the student's mastery of selected skills from the coursework attempted to date.
Prerequisite: Audition or consent of instructor.

DAA-2105
Modern Dance III

2 Credits
This studio course is intended to further the understanding of the principles of modern dance technique through more complex exercises and exploration of movement dynamics while developing speed in movement analysis and synthesis. Intricate rhythmic structures and increased spatial awareness will challenge students. Continuing critical analysis will be expected, along with a sharpening of both the student's overall dance knowledge and aesthetic understanding of the dance form. This course may be taken twice for credit.
Prerequisite: Audition or instructor permission

DAA-2106
Modern Dance IV

2 Credits
This studio course is a continuation of Modern Dance III. Emphasis is on expanding the technical training of the student by increasing complexity of movement capabilities. More emphasis will be placed on the student's overall knowledge and aesthetic understanding of the dance form. The course will focus more attention on the student's individual dance preparation. Attendance at and written critiques of dance performances will provide deeper insight into the dance field. This course may be taken twice for credit.
Prerequisite: Audition or Instructor Permission

DAA-2205
Ballet III

2 Credits
The continuation of ballet training at the beginning of the intermediate level. Emphasis is on strength and technical development through the skilled execution of intermediate level steps and center floor combinations. Uses the technical demands of ballet to further develop stamina and to increase expertise in spatial awareness. Attendance at and written critiques of dance performances increase the student's mastery of selected skills from the coursework attempted to date.
Prerequisite: Audition or instructor permission

DAA-2206
Ballet IV

2 Credits
Ballet IV is a continuation of Ballet III. Student experiences an intensification of barre work through the use of more complex coordination of the arms and legs. Intensified center work includes more complex floor patterns to develop the use of space in movement sequences. Introduction to steps requiring an advanced beginning expertise in ballet. Introduction of pointe work if student proficiency is met. Attendance at and written critiques of dance performances will provide deeper insight into the dance field. This course may be taken twice for credit.
Prerequisite: Audition or instructor permission
DAA-2500L
Jazz Dance
1 Credit
Jazz dance is a studio course designed to introduce the student to the historical development of modern jazz dance, its technique, and methods of expression through exercise, locomotion, and non-locomotion. Emphasis is placed on technique, terminology, movement combination and historical information. This course may be taken twice for elective credit.

DAN-1600C
Music for Dance
2 Credits
The study of music and its relationship to the dancer. In addition to basic rhythmic structures the student will learn to use them as a tool in teaching dance and in choreography. The student will further gain insight into the process of selecting appropriate music for various choreographic projects.

DAN-2100
Introduction to Dance
3 Credits
A lecture/activity course devoted to the study of dance in its many cultural and societal contexts. The course is designed to heighten student awareness of an appreciation of the aesthetic, socio-cultural, and vocational roles played by dancers from the art form's historical roots to contemporary trends. Reading, writing, critical analysis and some physical activity are included.
Prerequisites: College level reading and writing skills are required.

DEH-1003
Dental Hygiene Instrumentation
1 Credit
Dental Hygiene Instrumentation introduces the student to the theory and practical skills necessary for basic instrumentation. Laboratory sessions are included to demonstrate proficiency in utilizing dental hygiene instruments and dental charting. Additional topics that will be covered in lecture include professionalism and ethics, communication skills, asepsis and maintenance of hand instruments and hand pieces, patient assessment, oral prophylactic procedures, and dental charting.
Corequisites: DEH-1003L, DES-1020 and DES-1020L.
Credit for this course does NOT apply to the Associate in Arts degree.

DEH-1003L
Dental Hygiene Instrumentation Lab
2 Credits
Dental Hygiene Instrumentation Lab introduces the student to the practical skills necessary for basic instrumentation. Laboratory sessions are included to demonstrate proficiency in utilizing dental hygiene instruments and dental charting. Additional topics that will be covered in laboratory include professionalism and ethics, communication skills, asepsis and maintenance of hand instruments and hand pieces, patient assessment, oral prophylactic procedures, and dental charting.
Corequisites: DEH-1003, DES-1020, DES-1020L.
Credit for this course does NOT apply to the Associate in Arts degree.

DEH-1130
Oral Embryology and Histology
2 Credits
Oral Embryology and Histology is a comprehensive study of the embryonic, fetal, and postnatal development, and microanatomy of the cells and tissues that comprise the head, neck, and oral cavity. Lecture topics include development and histology of the structures of the head, neck, and oral cavity; development and histology of teeth development and histology of the tooth supporting structures; and development and histology of orofacial structures.
Corequisites: DES-1020, DES-1020L.
Credit for this course does NOT apply to the Associate in Arts degree.

DEH-1800C
Clinical Dental Hygiene I
5 Credits
Clinical Dental Hygiene I is the first term for direct patient care. Students apply the principles and perform clinical activities for the prevention of oral disease, including data collection, prophylaxis, application of prevention agents, and oral home care instructions. This is a combined course with classroom interactions and clinical experience. Students are required to successfully complete a number of procedures.
Prerequisites: DEH-1003, DEH-1003L, DES-1801, DES-1801L
Corequisites: DEH-2400, DEH-2602
Credit for this course does NOT apply to the Associate in Arts degree.

DEH-1811
Dental Ethics, Jurisprudence
1 Credit
This course is designed to provide knowledge of professional ethics and legal responsibilities, professional organizations, state and dental practice acts and continuing education regulations and requirements. Dental office management will be introduced to provide dental hygiene students with the business and professional skills necessary to practice in an office and/or alternate practice setting. Emphasis will be placed on the student’s ethical and legal roles as a dental hygienist and on the business aspects of the profession. In addition, preparation for the National Board examination and test-taking skills will be covered.
Prerequisites: DEH-2804C, DEH-2702
Corequisite: DEH-2702L.
Credit for this course does NOT apply to the Associate in Arts degree.

DEH-1820C
Clinical Dental Hygiene II
3 Credits
DEH-1820C is a continuation of DEH-1800C. It is a combined course that provides discussion of clinical activities along with clinical experience. This is the second term for direct patient care. Students apply the principles and perform clinical activities for the prevention of oral disease, including patient assessment, treatment planning, scaling, debridement, root planning, application of preventive agents, oral irrigation and antimicrobial agents, treatment of hypersensitivity, and oral home care instructions. Additional topics include oral communication skills, instrument sharpening, pulp vitality testing, special needs patients, nutritional counseling, ultrasonics, and air polishing. Students are required to successfully complete a number of procedures.
Prerequisites: DEH-1800C
Corequisites: DES-1101, DES-1101L.
Credit for this course does NOT apply to the Associate in Arts degree.

DEH-2300
Pharmacology and Oral Medicine
2 Credits
Pharmacology, oral medicine, anesthesiology, and dental emergencies introduces principles of basic pharmacology as they pertain to the practice of dentistry and dental hygiene. It emphasizes actions and reactions of medications commonly used in the dental office or taken by dental patients. Topics include terminology, pharmaceutical references, prescriptions and abbreviations, pharmacokinetics, drugs used in dentistry and their pharmacokinetics, drugs that may alter dental treatment and their pharmacokinetics, drugs used in dental emergencies, drug abuse, and nitrous oxide monitoring (as mandated in the Florida State Administrative Code Chapter 64B-14).
Prerequisites: DEH-1820C, DEH-2400
Corequisites: DEH-2804C, DES-2934
Credit for this course does NOT apply to the Associate in Arts degree.
### DEH-2400
**General and Oral Pathology**

3 Credits

General and Oral Pathology presents the principles of general pathobiology in relation to diseases of the teeth, soft tissue, and supporting structures of the oral cavity, as well as general pathologic conditions affecting the head and neck. Topics include terminology and diagnostic procedures, variants of normal conditions, benign conditions of unknown cause, inflammation and repair, caries and pulpal pathology, immune response, oral diseases with immunopathogenesis, autoimmune diseases, infectious diseases, embryology of the head and neck, developmental disorders of the soft tissues and teeth, developmental cysts, neoplasia, odontogenic tumors, other tumors of oral structures, genetics, genetic syndromes and diseases of the head and neck, general pathologic conditions affecting the oral structures, TMJ disorders, and dental implants.

Prerequisites: DEH-1130, MCB-1000, MCB-1000L

Corequisites: DEH-1800C, DEH-2602

Credit for this course does NOT apply to the Associate in Arts degree.

### DEH-2602
**Periodontology**

2 Credits

This course provides information on the principles of periodontology pertinent to dental hygiene practice. Topics include tissues of the periodontium, epidemiology of periodontal diseases, classification of periodontal diseases, disease prevention, disease treatment and management, drug therapy, immunology and host defense mechanisms, microorganisms associated with periodontology, surgical and nonsurgical treatment, implantology and maintenance, and periodontal/endodontic emergencies.

Prerequisites: DEH-1130, MCB-1000, MCB-1000L

Corequisites: DEH-1800C, DEH-2400

Credit for this course does NOT apply to the Associate in Arts degree.

### DEH-2702
**Community Dental Health**

2 Credits

This course is designed to provide knowledge of attitudes, skills, and behaviors necessary to promote dental health and prevent disease through organized community-based programs. Students will be responsible for assessing, planning, implementing, and evaluating procedures in a community oral health program.

Prerequisite: DES-1831C

Corequisites: DEH-2804C, DEH-2934

Credit for this course does NOT apply to the Associate in Arts degree.

### DEH-2702L
**Community Dental Health Practicum**

1 Credit

This course is designed to provide the student with community-based experiences in public health settings for the promotion of dental health and the prevention of dental disease. Students will apply principles of program assessment, implementation, and evaluation procedures for all sites visited.

Prerequisites: DEH-2702

Corequisites: DES-2503, DEH-1811

Credit for this course does NOT apply to the Associate in Arts degree.

### DEH-2804C
**Clinical Dental Hygiene III**

5 Credits

Clinical Dental Hygiene III, a continuation of DEH-1820C, is a combined course that provides discussion of clinical activities along with clinical experience. This is the third term for direct patient care. Students apply the principles and demonstrate improved patient care skills while performing clinical activities for the prevention of oral disease, including patient assessment, treatment planning, scaling, debridement, root planning, ultrasonics, and air polishing application of preventive agents, oral irrigation and antimicrobial agents, and oral home care instructions.

Prerequisites: DEH-1820C, DES-1831C

Corequisites: DEH-2300, DES-2934

Credit for this course does NOT apply to the Associate in Arts degree.

### DEH-2806C
**Clinical Dental Hygiene IV**

6 Credits

Clinical Dental Hygiene IV is a continuation of DEH-2804C. This course combines advanced clinical activities with previous clinical experience. This is the fourth term for direct patient care, which emphasizes quality patient care, time constraints, and communication skills. Students will continue to perform clinical activities for the prevention of oral disease, including patient assessment, treatment planning, scaling, debridement, root planning, ultrasonics, and air polishing application of preventive agents, oral irrigation and antimicrobial agents, and oral home care instructions. Additional experience will include office management, legal aspects, ethics, dental hygiene practice settings, dentistry and dental hygiene regulation, and general office procedures. Students are required to successfully complete an advanced number of procedures.

Prerequisites: DEH-2804C, DES-2934

Corequisites: DEH-1811, DEH-2934

Credit for this course does NOT apply to the Associate in Arts degree.

### DEP-1004
**Development Psychology of the Life Span**

3 Credits

Emphasizes developmental and psycho-social growth from conception to death. Topics include Piaget's stages of cognitive development, Erikson's “Eight Ages,” the concept of maturity, changing personalities in later adulthood, theories of aging and death and dying.

### DEP-1004H
**Honors Developmental Psychology of the Life Span**

3 Credits

Same as for DEP 1004 with honors content.

Emphasizes developmental and psycho-social growth from conception to death. Topics include Piaget's stages of cognitive development, Erikson's “Eight Ages,” the concept of maturity, changing personalities in later adulthood, theories of aging and death and dying.

Honors Institute permission required.

Prerequisites: College level reading and writing skills are required.

### DEP-2102
**Child Development**

3 Credits

Focuses on the development and psychosocial aspects of the child through adolescence. Topics include heredity, maturity and social determinants of child behavior.

Prerequisites: College level reading and writing skills are required.
DES-1020
Oral, Head & Neck Anatomy

2 Credits

Oral, Head & Neck Anatomy is a detailed study of the gross anatomy of the head and neck, and the external and internal morphology of the primary and permanent dentition. Emphasis is placed on structures directly affected by the practice of dentistry. Head and neck anatomy lecture topics include anatomic terminology, anatomic landmarks, the study of skeletal, muscular, nervous, respiratory, cardiovascular, lymphatic, endocrine, and exocrine systems, facial spaces and the spread of dental infections. Dental anatomy lecture topics include anatomy of the oral cavity, dental terminology, external and internal tooth anatomy, tooth nomenclature and numbering systems, individual tooth and root morphology, tooth eruption schedules, occlusion, and operative dentistry. In order to apply knowledge of head, neck, and dental anatomy to clinical dental hygiene, students will study anatomical models of the head, neck, oral cavity, and teeth, and extracted teeth.

Corequisites: DEH-1003, DEH-1003L, DES-1020L

Credit for this course does NOT apply to the Associate in Arts degree.

DES-1020L
Oral, Head & Neck Anatomy Lab

1 Credit

This course provides an opportunity to use anatomical models of the skull and teeth to apply didactic information in the laboratory setting and begin to apply knowledge of anatomy to clinical dental hygiene. Lab fee required.

Corequisites: DES-1020, DEH-1003, DEH-1003L

Credit for this course does NOT apply to the Associate in Arts degree.

DES-1101
Dental Materials

2 Credits

Dental Materials focuses on the nature, qualities, composition, and manipulation used in dentistry. The primary goal of this course is to enhance the student's ability to make clinical judgments regarding the use and care of dental materials based on how these materials react in the oral environment. Lecture topics include dental material standards, dental material properties, impression materials, gypsum products, mouth guards and whitening systems, dental bases, liners and cements, temporary restorations, classifications for restorative dentistry, direct restorative materials, indirect restorative materials, polishing procedures for dental restorations, removable dental prostheses, sealants and implants. Students will have hands-on laboratory experience in the proper manipulation of dental materials commonly employed in dentistry. Some of the material taught in DES-1100C provides didactic, practical, and clinical experience necessary for the dental hygiene student to perform expanded functions as required by, and outlined in Florida Statue Title XXXII, Chapter 466, Section 466.024, and in the Florida Administrative Code Chapter 64, Sections B5-16.001, B5-16.002, and B5-16.006 through B5-16.010.

Prerequisites: CHM-1032, CHM-1032L, MCB-1000, MCB-1000L

Corequisites: DES-1101L, DES-1831C

Credit for this course does NOT apply to the Associate in Arts degree.

DES-1101L
Dental Materials Lab

1 Credit

This course is designed to provide basic knowledge and laboratory practice necessary for the proper manipulation of dental materials commonly employed in dentistry.

Prerequisites: CHM-1032, CHM-1032L

Corequisites: DES-1101, DES-1831C

Credit for this course does NOT apply to the Associate in Arts degree.

DES-1201
Dental Radiology

2 Credits

This course provides the student with fundamental knowledge of the nature, physics and biological effects of radiation to maximize understanding of proper control and safety precautions to be used in exposing, processing, mounting, and evaluating diagnostically acceptable radiographs.

Corequisites: DES-1020, DES-1020L, DES-1201L

Credit for this course does NOT apply to the Associate in Arts degree.

DES-1201L
Dental Radiology Lab

1 Credit

This course provides the student with laboratory experience in exposing, processing, mounting, and critiquing diagnostically acceptable intraoral and extraoral radiographs.

Corequisites: DES-1201, DES-1020, DES-1020L

Credit for this course does NOT apply to the Associate in Arts degree.

DES-1801
Introduction to Clinical Procedures

2 Credits

This core course introduces the dental hygiene student to the basic concepts of clinical practice. Topics include the history of dentistry, dental health team members, professional organizations, medical/dental history, vital signs, operation and maintenance of dental equipment, operator/patient, four-handed techniques, oral evacuation, dental charting, cleaning of removable appliances, coronal polishing, and fluoride application techniques.

Corequisites: DEH-1003, DEH-1003L, DES-1801L

Credit for this course does NOT apply to the Associate in Arts degree.

DES-1801L
Introduction to Clinical Procedures Lab

1 Credit

This course is designed for the practical application of professionalism and clinical procedures. Development of introductory skills is practiced in the clinical setting. Demonstration of required procedures is evaluated using preset standards.

Corequisites: DES-1801, DEH-1003, DEH-1003L

Credit for this course does NOT apply to the Associate in Arts degree.

DES-1831C
Expand Duties for Dental Hygienists

2 Credits

Expanded Duties for Dental Hygienists is a combined lecture and clinical course designed to provide didactic, practical, and clinical experience necessary for the dental hygiene student to perform expanded functions as required by, and outlined in Florida Statue Title XXXII, Chapter 466, Section 466.024, and in the Florida Administrative Code Chapter 64, Sections B5-16.001, B5-16.002, and B5-16.006 through B5-16.010.

Prerequisite: DEH-1800C

Corequisites: DES-1101, DES-1101L, DES-1820C

Credit for this course does NOT apply to the Associate in Arts degree.

DES-2503
Office Management

1 Credit

This course enables the student to gain knowledge and proficiency in all procedures necessary for office management. The course includes telephone techniques, ordering supplies, recall system, appointment control, bookkeeping, billing, and insurance procedures.

Prerequisites: DES-2934, DEH-2804C

Corequisite: DEH-2702L

Credit for this course does NOT apply to the Associate in Arts degree.
DEP-029
Advanced Clinical Procedures
1 Credit
Advanced Clinical Procedures is a lecture course that is a continuation of concepts and clinical procedures introduced in previous clinical courses. This course provides discussion of case-based studies and the application of specialized care treatment procedures. Students develop critical thinking skills based on the application of theory and advanced dental hygiene procedures. Topics include dietary surveys, recall systems and applied techniques with an emphasis on patients having specialized needs and unusual case factors that may complicate routine care.

Prerequisites: DEH-1820C, DEH-2400
Corequisites: DEH-2300, DEH-2804C
Credit for this course does NOT apply to the Associate in Arts degree.

DIE-2000
Introduction to Dietetics
3 Credits
This course provides an in-depth introductory study of dietetics, the normal nutritional principles and the application of these principles, the professional opportunities for registered dietitians, and the role of the American Dietetic Association in dietetics education and practice.

DIE-2129
Quality Control in Food and Nutrition
3 Credits
Students will be introduced to quality assessment and control in foods and nutrition. Topics will include review of laws, regulations and standards relating to the practice of dietetics.

DIE-2401
Nutrition Education and Interviewing
3 Credits
Provides information on the nutritional habits of various cultural groups, educational methods which have an impact on food purchases and interviewing techniques.

DIE-2419
Nutrition Education and Counseling Practicum
2 Credits
Provides the student with a practical application of nutrition education counseling. Actual interviews and customer needs records will reinforce the theories taught and the development and planning of menus.

DSC-2033
Weapons of Mass Destruction
3 Credits
This course introduces students to various types of weapons of mass destruction. The student will be introduced to basic principles of weapons of mass destruction, recognition, identification, decontamination, and treatment protocols. The student will understand the importance of personal protective equipment and its proper uses and understand the toxicology, physical and chemical properties associated with weapons of mass destruction.

EAP-0100
Speech/Listening I
3 Credits
An introductory level listening and speaking course in which students develop the ability to understand and participate in brief conversations on familiar topics and begin to develop their pronunciation. Students must obtain a grade of C or better in order to advance to the next level of EAP coursework.

EAP-0120
Reading I
3 Credits
Introductory course for EAP students with emphasis on comprehension of limited written materials. Students must obtain a grade of C or better in order to advance to the next level of EAP coursework.

EAP-0140
Writing I
3 Credits
An introductory level writing course in which students develop the ability to write grammatically correct sentences and learn basic organizational skills for paragraph writing. Students must obtain a grade of C or better in order to advance to the next level of EAP coursework.

EAP-0160
Grammar I
3 Credits
Introductory grammar course for EAP students with emphasis on basic verb tenses and simple sentence patterns. Students must obtain a grade of C or better in order to advance to the next level of EAP coursework.

EAP-0200
Speech/Listening II
3 Credits
A high-beginning/low-intermediate level listening and speaking course in which students continue to develop their ability to understand and participate in conversations and further develop their pronunciation skills. Students must obtain a grade of C or better in order to advance to the next level of EAP coursework.

Prerequisite: EAP-0100

EAP-0220
Reading II
3 Credits
A high introductory level reading course for EAP students with emphasis on developing reading skills and vocabulary. Students must obtain a grade of C or better in order to advance to the next level of EAP coursework.

Prerequisite: EAP-0120