

BUL 2241**Business Law I**

3.00 Credits

Covers the main concepts of legal institutions, the legal environment, business ethics, public and private business law, contracts, business regulations the UCC (Uniform Commercial Code) and related laws.

Prerequisites: College level reading and writing skills required.

BUL 2242**Business Law II**

3.00 Credits

Covers commercial paper, agency, partnerships, corporations, secured transactions, bankruptcy, securities regulations, real and personal property, trusts, wills and associated legal problems.

Prerequisite: BUL 2241.

CAP 1023**Introduction to Game Development**

3.00 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.

Prerequisites: CGS 1000.

CAP 2042**Game Design and Development**

3.00 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 3 D 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 2043**Advanced Game Design and Development**

3.00 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 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 2042.

CAP 2816**Database Management II**

1.00 Credit

Focuses on advanced data file techniques.

Prerequisite: CGS 1540.

CAP 2840**Personal Financial Management**

1.00 Credit

Focuses on using a computer to manage personal finances, with an emphasis on determining a budget, entering check-book information, preparing a personal net worth statement and keeping a record of monthly expenses.

CAP 2939**Digital Media/Multimedia Technology Capstone**

3.00 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 Criminology**

3.00 Credits

Focuses on the complex factors related to crime in America, including basic issues, scope and economic impact.

CCJ 1020**Introduction to Criminal Justice**

3.00 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 1935**Seminar/Criminal Justice Issues**

3.00 Credits

Focuses on selected topics and issues not usually covered in other courses.

CCJ 2013**Introduction to Victimology****3.00 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**

3.00 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 emphasize 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**

3.00 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 2618**Forensic Psychology**

3.00 Credits

This course is an examination of the psychology of human behavior as it relates to crime. The student will be introduced to psychopathology, the sexually violent offender, and serial murderers. The student will also examine violent juvenile offenders and the process of psychological conditioning which allows them to commit violent criminal acts. The student will also be introduced to criminal profiling.

CCJ 2648**Organized Crime**

3.00 Credits

This course involves an examination of organized crime, including its history, structures, activities and government efforts to control it.

CCJ 2910**Directed Research**

3.00 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. College level reading and writing skills required.

Prerequisites: Criminal Justice Technology and Justice Administration majors only; permission of the instructor.

CCJ 2940**Criminal Justice Internship**

3.00 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.

Prerequisites: Criminal Justice Technology and Justice Administration majors only; permission of the instructor.

CEN 2939**Network Administrator Capstone**

3.00 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 1123C**Introduction to Microprocessors**

3.00 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 1112C.

CET 1172C**Computer Upgrading & Repair**

3.00 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.

Prerequisite: EET 1083 or a working knowledge of DOS and Windows 3.1 or higher.

CET 1174C**Advanced Computer Repair**

3.00 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**

3.00 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.

Prerequisites: CET 1172C or EET 1083C.

CET 1600**Cisco Network Fundamentals**

3.00 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.

CET 1610**Cisco Router Technology**

3.00 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 CTS 1305.

Prerequisite: CET 1600.

CET 2113C**Digital Systems Analysis**

3.00 Credits

This course is a continuation of the basic digital electronics covered in CET 1112C. 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 1112C.

CET 2152C**Advanced Microprocessors**

3.00 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.

Prerequisites: CET 1123C, CET 2113C.

CET 2335C**Microcomputer Systems**

3.00 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.

Prerequisites: CET 1123C, CET 2113C.

CET 2615**Cisco Advanced Router Technology**

3.00 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.

Prerequisites: CET 1610.

CET 2620**Cisco WAN Technologies**

3.00 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.

Prerequisites: CET 2615.

CET 2939**Computer Engineering Capstone**

3.00 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 & Technology**

3.00 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**

3.00 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**

3.00 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.

Prerequisites: CGS 1000.

CGS 1104**Accounting Applications**

1.00 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**

1.00 Credits

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 cyber space; 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**

1.00 Credits

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**

1.00 Credit

Focuses on basic word processing applications, with an emphasis on term papers, reports and resumes.

CGS 1510**Spreadsheet Applications I**

1.00 Credits

Focuses on basic spreadsheet applications such as replication, automatic recalculation, financial modeling, analysis and projection, and general mathematical calculations.

Prerequisites: CGS 1000 or OST 1142 or permission of the instructor.

CGS 1520**Business Graphics I**

1.00 Credits

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.

Prerequisites: CGS 1000.

CGS 1521**Introduction Computer Draw and Painting**

1.00 Credit

Introduces paint/draw computer program. Focuses on simple drawing and editing techniques and manipulating and modifying object.

Prerequisite: CGS 1000.

CGS 1540**Database Management I**

1.00 Credit

Teaches how to work effectively with a data management application, with an emphasis on assembling and organizing data in manageable records and files.

Prerequisites: CGS 1000.

CGS 1554**Internet Basics**

1.00 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 Internet**

3.00 Credits

An introductory course designed to teach the basics of navigating the Internet and the World Wide Web. Students participate in online and off line 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**

3.00 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.

Prerequisites: CGS 1000, CGS 1555.

CGS 1761**Computer Operating Systems**

3.00 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, Windows 9x, Windows NT/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**

3.00 Credits

Introduces the student to multimedia basics, application structure, and organization. Focus is on the conceptual elements of multimedia implementation and authoring basics.

Prerequisites: CGS 1000, COP 2823.

CGS 1936**Perl & CGI**

3.00 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.

Prerequisites: CGS 1000.

CGS 2069**E Commerce**

3.00 Credits

Introduces the student to electronic commerce, e commerce market mechanisms, retailing in e commerce, consumer behavior, customer service, B2B and collaborative commerce, public B2B exchanges, intrabusiness, e government, C2C, mobile commerce, laws, ethics, cyber crime, payment and order fulfillment processes, e strategy and Internet communities.

Prerequisite: CGS 1000.

CGS 2091**Information Technology: Ethical/Legal Issues**

3.00 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**

3.00 Credits

Students will use one of the e commerce software packages to plan and develop an e commerce Web site.

Prerequisites: CGS 2820, CGS 2822.

CGS 2301**Management Information Systems**

3.00 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 Adobe Acrobat**

1.00 Credits

Provides students with the knowledge and skills necessary to create, post to the Internet, and distribute PDF files.

Prerequisite: CGS 1000.

CGS 2511**Spreadsheet Applications II**

1.00 Credits

Emphasizes advanced spreadsheet techniques.

Prerequisite: CGS 1510.

CGS 2512**Spreadsheets III**

1.00 Credit

This is a continuation of CGS 2511, Spreadsheets II. More advanced concepts and macro programming are emphasized.

Prerequisite: CGS 2511.

CGS 2525**Business Graphics II**

1.00 Credit

This is a continuation of CGS 1520, Business Graphics I. Advanced concepts are emphasized.

Prerequisite: CGS 1520.

CGS 2541**Database Design**

3.00 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**

3.00 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.

Prerequisites: CGS 1000, CGS 2541.

CGS 2820**WEB Authoring HTML**

3.00 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 non standard data. They will also learn how to use FTP to upload and download files.

Prerequisite: CGS 1000.

CGS 2822**Web Site Creation**

3.00 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 Front-Page, Dreamweaver, Cold Fusion, etc. They will have the opportunity to develop a Web site from initial concept to publication.

Prerequisite: CGS 2820.

CGS 2823**Introduction Active Server Pages**

3.00 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.

Prerequisite: COP 1000.

CGS 2825**Web Site Management**

3.00 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.

Prerequisite: CTS 2301.

CGS 2874**Multimedia Authoring II**

3.00 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.

Prerequisites: CGS 1871.

CGS 2876**Digital Audio/Video Design**

3.00 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, MusicMatch, CakeWalk, Adobe Premiere, and After Effects may be used in this course.

Prerequisites: CGS 2820, CGS 1871, or CGS 1555.

CGS 2877**Digital Animation Design**

3.00 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, Adobe Fireworks, Flash, and Shockwave may be used in this course as well as multimedia authoring programs such as Adobe Director or Toolbook.

Prerequisites: CGS 2820, CGS 1871, or CGS 1555.

CGS 2939**Internet Services Technology Capstone**

3.00 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**

3.00 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 Internet Services Technology A.S. Degree program. The student will attend a minimum of 3 clock hours per week in the internship experience.

CGS 2942**Database Services Internship**

3.00 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 Technology AS degree.

Prerequisites are determined by the instructor.

CHD 1800**Introduction Early Childhood Administration**

3.00 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 Introduction Child Care Course, 10 hours DAP Special Needs, CDA or equivalent.

CHM 1020C**Chemistry & Society**

3.00 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**

3.00 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.

CHM 1025L**Modern Chemistry Lab**

1.00 Credit

Accompanies CHM 1025. Topics include laboratory techniques, measurement, chemical reactions, abbreviated qualitative analysis, quantitative chemistry techniques and gas law applications. College level reading, writing and math skills are required. 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**

3.00 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 Lab**

1.00 Credits

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**

3.00 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. College level reading, writing and math skills are required.

Prerequisites: CHM 1025 or permission of instructor and MAC 1105.

Corequisite: CHM 1045L.

CHM 1045L**College Chemistry I Lab**

1.00 Credit

Accompanies CHM 1045. Topics include analytical techniques, physical property determinations, gas laws and thermochemical processes. College level reading, writing and math skills are required. A special fee will be charged for this course.

Corequisite: CHM 1045.

CHM 1046**College Chemistry II**

3.00 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. College level reading, writing and math skills are required.

Prerequisite: CHM 1045.

Corequisite: CHM 1046L.

CHM 1046L**College Chemistry II Lab**

1.00 Credit

This course accompanies CHM 1046. Topics include spectrophotometric determinations, chemical kinetics, electrochemistry, inorganic qualitative analysis and chemistry equilibria. College level reading, writing and math skills are required. A special fee will be charged for this course.

Prerequisite: CHM 1045L.

Corequisite: CHM 1046.

CHM 2132C**Chemical Instrumentation**

3.00 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, CHM 1046L.

CHM 2210**Organic Chemistry I**

4.00 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. College level reading, writing and math skills are required.

Prerequisites: CHM 1046, CHM 1046L.

Corequisite: CHM 2210L.

CHM 2210L**Organic Chemistry I Lab**

1.00 Credits

Accompanies CHM 2210. Topics include organic separations, synthesis, spectroscopy, chromatography and identification of organic compounds. College level reading, writing and math skills are required. A special fee will be charged for this course.

Prerequisites: CHM 1046, CHM 1046L.

Corequisite: CHM 2210.

CHM 2211**Organic Chemistry II**

4.00 Credits

Second part of a two semester sequence. Focus is on the chemistry of hydrocarbon derivatives. College level reading and math skills are required.

Prerequisites: CHM 2210, CHM 2210L.

Corequisite: CHM 2211L.

CHM 2211L**Organic Chemistry II Lab**

1.00 Credit

Accompanies CHM 2211. Topics include the analysis of NMR spectra, multi step synthesis and organic qualitative analysis. College level reading and math skills are required. A special fee will be charged for this course.

Prerequisite: CHM 2210L.

Corequisite: CHM 2211

CIS 1930**Business Financial Management**

1.00 Credit

Focuses on computerized applications in management, with an emphasis on inventory control, project management, financial management and expert systems.

Prerequisite: OST 1142.

CIS 1931**Microcomputer Concepts**

3.00 Credits

Focuses on using microcomputers to solve business problems, evaluate personal computers and software, and complete a wide range of office tasks.

CIS 2321**Systems Analysis**

3.00 Credits

Focuses on the systems development life cycle, with an emphasis on identifying and assessing system requirements, analyzing and designing new systems in relation to use in business.

Prerequisites: CGS 2301, CGS 2541.

CIS 2352C**Ethical Hacking I**

3.00 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.

Suggested prerequisite: CTS 2301

Prerequisite: CNT 1401.

CIS 2353**Security Management and Computer Auditing**

3.00 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 performing fieldwork, analyzing data to draw conclusions and preparing an audit report offering recommendations. Suggested prerequisite: CTS 2301

Prerequisite: CNT 1401.

CIS 2359C**Ethical Hacking II**

3.00 Credits

A continuation of Ethical Hacking I with emphasis on advanced techniques.

Prerequisite: CIS 2352C.

CIS 2381C**Computer Forensics/Incident Responsibility**

3.00 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 intrusion inspecting log files, tracking violators. Students will practice computer forensic exercises using detection tools and tracking methodologies. Suggested prerequisite: CTS 2301

Prerequisites: CNT 1401.

CIS 2939**Computer Information Administration Capstone**

3.00 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.

CIS 2941**Computer Info Internship**

3.00 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 Administrator Information AS degree. Prerequisites determined by the instructor.

CIS 2945**Information Technology Security Capstone**

3.00 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.

Prerequisites: CTS 2333, CIS 2359C.

CJC 1000**Introduction to Corrections**

3.00 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**

3.00 Credits

Explores the history, functions, purposes and operations of community corrections programs within the criminal justice system which provide 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**

3.00 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 of career officers to enforce the laws in a democratic society. Topics covered will include law enforcement as a balance of social, historical, political, legal, individual and organizational forces.

CJE 1640**Introduction to Criminalistics**

3.00 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 Crime Scene Technology**

3.00 Credits

This course explains and discusses the basic scientific techniques used in criminal investigation with emphasis on the role of the crime scene investigator. This course will focus on such areas as recording the crime scene, collecting and preserving physical evidence, and the examination of evidence. The techniques used by the crime scene investigator to collect, protect, process, and analyze crime scene evidence will be explored.

CJE 1643C**Advanced Crime Scene Technology**

3.00 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; gunshot residue, blood spatter and bodies.

Prerequisites: CJE 1640, CJE 1642C.

CJE 1653**Crime Analysis and Intelligence**

3.00 Credits

This course involves an introduction to the field of crime analysis. The course will provide the student with an overview of basic criminal intelligence and investigative analysis techniques in modern law enforcement. The course will include geographic information systems and crime mapping techniques.

CJE 1680**Introduction to Computer Crime**

3.00 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 Criminal Justice**

1.00 Credits

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**

3.00 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**

3.00 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**

3.00 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**

3.00 Credits

Focuses on the relationship of criminal justice agencies to the community and how social change affects law enforcement, corrections and the courts.

CJE 2614**Serial Killers**

3.00 Credits

This course involves an examination of serial killers and mass murderers, including the history, profiling of the offenders, and techniques for the investigation. Special issues that will be covered include media coverage and punishment.

CJE 2600**Criminal Investigation**

3.00 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.

CJE 2611**The investigative Cycle from Crime Scene to Court**

3.00 Credits

The course covers the evidence and investigative cycle, from processing the crime scene, to testimony about the evidence. It first examines the fundamentals of protecting and processing crime scenes and the handling of evidence. Students then would become familiar with the components of the investigative report. The course would then cover how the evidence and testimony are presented in the courtroom.

CJE 2671C**Latent Fingerprint Development**

2.00 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**

2.00 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 2770C**Forensic Photography**

3.00 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.

CJJ 1002**Juvenile Delinquency**

3.00 Credits

Focuses on the history, nature, causes and scope of juvenile crimes with an examination of the justice system and treatment facilities.

CJL 1062**Constitutional Law**

3.00 Credits

Provides an in depth study of criminal law, with an emphasis on the role of the Supreme Court and constitutional law as it applies to law enforcement and civil rights.

CJL 1070**Legal Rights of Prisoners**

3.00 Credits

Survey the legal rights of inmates in correctional facilities, with an emphasis on specific cases and decisions affecting correctional practices.

CJL 1100**Criminal Law**

3.00 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**

3.00 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**

3.00 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**

3.00 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 of Science Evidence**

3.00 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.

CLP 1000**Psychology of Personal Growth**

3.00 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**Advanced Psychology Personal Growth**

3.00 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.

CNT 1401**Introduction to Network Security**

3.00 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.

Prerequisites: CET 1600 or CTS 1305.

CNT 2405**Advanced Internetworking Security**

3.00 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.

CNT 2510**Wireless Networking**

3.00 Credits

This course presents an overview of common wireless technologies such as 802.11a, 802.11g, 802.11n, cellular, PCS, Infra-red, 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: CTS 1305.

CNT 2941**Computer Information Internship**

3.00 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 Administrator AS degree.

Prerequisites: Determined by the instructor.

COP 1000**Programming Logic**

3.00 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.

Prerequisite: CGS 1000.

COP 1120**COBOL, Beginning**

3.00 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.

Prerequisite: COP 1000.

COP 1220**Programming in "C"**

3.00 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.

Prerequisite: COP 1000.

COP 1812**Introduction XML Authoring**

3.00 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.

Prerequisite: COP 1000.

COP 1820**Visual BASIC, Beginning**

3.00 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**

3.00 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.

Prerequisite: COP 1820.

COP 2224**Programming in C++**

3.00 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. Students must take the prerequisite listed or have permission of instructor

Prerequisites: COP 1000, COP 1220.

COP 2344**Shell Scripting**

3.00 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.

Prerequisites: COP 1000, CTS 1106.

COP 2360**Programming in C#**

3.00 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 2800**JAVA Programming**

3.00 Credits

Introduces programming in JAVA. Focus is on object oriented programming to create stand alone applications for enhancing Web pages.

Prerequisite: COP 1000 or permission of instructor.

COP 2805**JAVA Advanced**

3.00 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.

Prerequisite: COP 2800.

COP 2822**Scripting for the Web**

3.00 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, Java Script, and/or Perl.

Prerequisites: CGS 2820, COP 1000.

COP 2823**Graphics Design Multimedia/Internet**

3.00 Credits

Introduces graphic 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 communication is introduced.

Prerequisite: CGS 1000.

COP 2826**Advanced Graphic Design Multimedia/Internet**

3.00 Credits

A continuation of COP 2823. Focus is on advanced graphic design techniques. Students use digital imaging software to prepare graphics for use in effective design elements.

Prerequisites: COP 2823.

COP 2939**Computer Programming Capstone**

3.00 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**

3.00 Credits

A coordinated work study course involving class work 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.

CRW 1001**Creative Writing I**

3.00 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 waiver by permission of instructor required.

Prerequisite: ENC 1101.

CRW 1002**Creative Writing II**

3.00 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. College level reading and writing skills are required.

Prerequisite: CRW 1001.

CTS 1106**Introduction to Unix**

3.00 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.

CTS 1302**MS Windows Designing a Directory Services Infrastructure**

3.00 Credits

Provides students with the knowledge and skills necessary to design an MS Windows directory services infrastructure in an enterprise network.

Prerequisite: CTS 1303.

CTS 1303**Microsoft Windows Implementing & Administering Directory Services**

3.00 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: CTS 1306.

CTS 1304**Planning and Maintaining MS Windows Network Infrastructure**

3.00 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.

CTS 1305**Introduction to Networking**

3.00 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 Microsoft program and will provide background information for the Cisco certification program.

Prerequisites: CGS 1000 or permission of instructor..

CTS 1306**Microsoft Windows Implementing and Supporting Network Infrastructure**

3.00 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.

Prerequisite: CTS 1328.

CTS 1327**MS Windows Professional**

3.00 Credits

This course is to provide individuals who are new to Microsoft Windows with the knowledge necessary to understand and identify the tasks involved in supporting Windows networks. This is an introductory course designed to provide an overview of networking concepts and how they are implemented in Windows. Students should have a working knowledge of the Microsoft Windows 95/98, Windows NT, or Windows 2000 interface.

Prerequisite: CTS 1305.

CTS 1328**MS Windows Server**

3.00 Credits

This course provides students with the knowledge and skills necessary to install and configure Microsoft Windows professional on stand alone 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: CTS 1327 or permission of the instructor.

CTS 1330**Implementing and Supporting MS Exchange Server**

3.00 Credits

This course provides Microsoft Exchange Server support professional with in depth product information on installing, configuring and administering Exchange Server.

CTS 1437**System Administration for Microsoft SQL**

3.00 Credits

Provides students with the knowledge and skills required to install, configure, administer, and trouble shoot Microsoft SQL Server client/server database.

Prerequisites: CTS 1328.

CTS 2301**Unix/Linux Administration I**

3.00 Credits

This course is a continuation of CTS 1106 (Introduction to Unix). The focus is hands on Linux 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 CTS 2322 (Unix/Linux Administration II).

Student must have prerequisite or permission of instructor.

Prerequisite: CGS 1000.

CTS 2310**Windows Security**

3.00 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: CNT 1401.

CTS 2311**Unix/Linux Security**

3.00 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). College level reading and writing skills are required.

Prerequisite: CTS 1305, CTS 2322.

CTS 2322**Unix/Linux Administration II**

3.00 Credits

This course is a continuation of CTS 1106 (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: CTS 2301.

CTS 2333**Unix/Linux Networking**

3.00 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.

Prerequisite: CTS 1305, CTS 2322. College level reading and writing skills are required.

CTS 2440**Database Programming - SQL**

3.00 Credits

This course covers the concepts of both relational and object relational databases using 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, grouping operations and navigational retrieval. They also learn to write SQL queries to generate report-like output. Hands-on practice using assigned projects reinforce the fundamental concepts.

Prerequisite: CGS 1000

CTS 2441**Database Administration I**

3.00 Credits

Provides students with the knowledge and skills required to install, configure, administer and troubleshoot a specific database management system (DBMS) in a client/server environment. Topics such as backing up and restoring a database, as well as scheduling, monitoring and performance will be covered. Sizing database objects such as tables and indexes will be covered, as well as database securities.

Prerequisite: CGS 2541

CTS 2442**Database Administration II**

3.00 Credits

Provides students with the knowledge and skills required to install, configure, administer and troubleshoot a specific database management system (DBMS) in a client/server as well as web based environment. Topics such as complex restoring of a database will be covered. Advanced concepts such as data warehousing, data mining and transaction processing will be covered.

Prerequisite: CTS 2441.

CTS 2445**Database Programming Advanced**

3.00 Credits

This course covers advanced coding concepts of a specific DBMS. For example, if the student is studying MS Access, this course covers coding using Visual Basic for Applications (VBA). If the student is studying MS SQL Server, this course introduces advanced concepts using Transact SQL (TSQL). If the student is studying Oracle DBMS, the student will code in PL/SQL. Students will be taught to code programs to perform error handling and create triggers. Students will program stored procedures and custom functions, and learn to call those reusable programs.

Prerequisite: CTS 2740.

CTS 2939**Database Technology Capstone**

3.00 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 1101**Modern Dance I**

2.00 Credits

Elementary level modern dance training is for those with entry level skills in modern dance. The course will offer students the opportunity to develop an understanding of the basic principles and concepts of modern dance technique through several movement experiences and explorations. Students explore and develop awareness of body alignment, dance vocabulary, self awareness, coordination, strength and musicality. Attendance at and written critiques of dance performances provide an enhanced view of the scope of the dance field. This course may be taken twice for credit.

DAA 1104**Modern Dance II**

2.00 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**

2.00 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**

2.00 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**

2.00 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**

1.00 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 stage performance. This course is repeatable for elective credit.

Prerequisite: Audition required.

DAA 1800**Dance Basics**

1.00 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**

1.00 Credit

This activity/analysis course provides for the expansion of the student's range of expression and performance/production or pre 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**

2.00 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 rhythmical 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**

2.00 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 spatial awareness, rhythmical structures, exploration and on partnering. Continuing critical analysis will be expected, along with a sharpening of both 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**

2.00 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 observation and analytical skills.

Prerequisite: Audition or Instructor Permission

DAA 2206**Ballet IV**

2.00 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**

1.00 Credits

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**

2.00 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**

3.00 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 1002**Dental Hygiene Instrumentation**

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

Corequisites: DEH 1002L, DES 1020 and DES 1020L.

DEH 1002L**Dental Hygiene Instrumentation Lab**

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

Corequisites: DEH 1002, DES 1020 and DES 1020L.

DEH 1130**Embryology and Histology**

1.00 Credits

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

Corequisites: DES 1020 and DES 1020L.

DEH 1720**Preventive Dentistry**

1.00 Credit

This is a one hour credit course designed to introduce the student to the practice and philosophy of preventive dentistry. The student will learn the roles of the dental hygienist, methods of dental biofilm control, formation of tooth deposits, stains, and dental caries, oral physiotherapy, inter dental care, oral health care products and the use of fluorides and sealants. Proper communication and behavior modification skills are emphasized to facilitate the role of the dental hygienist as an educator.

DEH 1800C**Clinical Dental Hygiene I**

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

Prerequisites: DEH 1002, DEH 1002L, DES 1801 and DES 1801L.

DEH 1802C**Clinical Dental Hygiene II**

3.00 Credits

DEH 1802C 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 planing, 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. Credit for this course does NOT apply to the Associate in Arts degree.

Prerequisite: DEH 1800C
Corequisites: DES 1100, DES 1100L.

DEH 1811**Dental Ethics, Jurisprudence**

1.00 Credits

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

Prerequisites: DEH 2804C, DEH 2702.
Corequisite: DEH 2702L.

DEH 2300**Pharmacology & Oral Medicine**

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

Prerequisites: DEH 1802C, DEH 2400.

Corequisites: DEH 2804C, DES 2934

DEH 2400**General & Oral Pathology**

3.00 Credits

General and Oral Pathology presents the principles of general pathology 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 immunological pathogenesis, 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. Credit for this course does NOT apply to the Associate in Arts degree.

Prerequisites: DEH 1130, MCB 1000 and MCB 1000L.

Corequisites: DEH 1800C, DEH 2602.

DEH 2602**Periodontology**

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

Prerequisites: DEH 1130, MCB 1000 and MCB 1000L.

Corequisites: DEH 1800C, DEH 2400.

DEH 2702**Community Dental Health**

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

Prerequisite: DES 1832C.

Corequisites: DEH 2804C, DES 2934.

DEH 2702L**Community Dental Health Practicum**

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

Prerequisite: DEH 2702.

Corequisites: DES 2502, DEH 1811.

DEH 2804C**Clinical Dental Hygiene III**

5.00 Credits

Clinical Dental Hygiene III, a continuation of DEH 1802C, 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. Credit for this course does NOT apply to the Associate in Arts degree.

Prerequisites: DEH 1802C, DES 1832C.

Corequisites: DEH 2300, DES 2934.

DEH 2806C**Clinical Dental Hygiene IV**

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

Prerequisites: DEH 2804C and DES 2934.

Corequisites: DEH 1811 and DES 2502

DEP 1004**Developmental Psychology of the Life Span**

3.00 Credits

Emphasizes developmental and psycho social growth from conception to death. Topics include Piaget's stages of cognitive development, Erickson'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**

3.00 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, Erickson's "Eight Ages," the concept of maturity, changing personalities in later adulthood, theories of aging and death and dying. Honors Institute permission required. College level reading and writing skills are required.

DEP 2102**Child Development**

3.00 Credits

Focuses on the development and psychosocial aspects of the child through adolescence. Topics include heredity, maturity and social determinants of child behavior. College level reading and writing skills are required.

DES 1020**Oral, Head & Neck Anatomy**

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

Corequisites: DEH 1002, DEH 1002L, DES 1020L.

DES 1020L**Oral, Head & Neck Anatomy Lab**

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

Corequisites: DES 1020, DEH 1002 and DEH 1002L

DES 1100**Dental Materials**

2.00 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. Credit for this course does NOT apply to the Associate in Arts degree. Prerequisites: CHM 1032, CHM 1032L, MCB 1000, MCB 1000L. Corequisites: DES 1100L.

DES 1100L**Dental Materials Lab**

1.00 Credit

This course is designed to provide basic knowledge and laboratory practice necessary for the proper manipulation of dental materials commonly employed in dentistry. Credit for this course does NOT apply to the Associate in Arts degree. Prerequisites: CHM 1032, CHM 1032L. Corequisites: DES 1100, DES 1830C

DES 1200**Dental Radiology**

2.00 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. Credit for this course does NOT apply to the Associate in Arts degree. Corequisites: DES 1020, DES 1020L, DES 1200L.

DES 1200L**Dental Radiology Lab**

1.00 Credit

This course provides the student with laboratory experience in exposing, processing, mounting, and critiquing diagnostically acceptable intraoral and extraoral radiographs. Credit for this course does NOT apply to the Associate in Arts degree. Corequisites: DES 1200, DES 1020, DES 1020L.

DES 1801**Introduction to Clinical Procedures**

2.00 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.

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

Corequisites: DES 1801L, DEH 1002 and DEH 1002L.

DES 1801L**Introduction Clinical Procedures Lab**

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

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

DES 1830C**Expanded Duties for Dental Hygienists**

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

Prerequisite: DEH 1800C.

Corequisites: DES 1100, DES 1100L, DEH 1802C.

DES 2502**Office Management**

1.00 Credits

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

Prerequisites: DES 2934, DEH 2804C.

Corequisites: DEH 2702L.

DES 2934**Advanced Clinical Procedures**

1.00 Credits

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

Prerequisites: DEH 1802C, DEH 2400.

Corequisites: DEH 2300, DEH 2804C.

DIE 2000**Introduction to Dietetics**

3.00 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/Nutrition**

3.00 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 2270**Clinical Nutrition I**

3.00 Credits

This course provides an in depth introductory study of dietetics; in depth review of nutrition science; the normal nutritional principles and the application of these principles throughout the life cycle.

Prerequisites: HUN 2201, DIE 2000.

DIE 2271**Clinical Nutrition II**

3.00 Credits

This course provides and advanced study of dietetics and the application of the science of nutrition to various disease states.

Prerequisite: DIE 2270.

Corequisite: DIE 2533.

DIE 2401**Nutritional Education and Interviewing**

3.00 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**Nutritional Education Counseling Practicum**

2.00 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.

DIE 2533**Clinical Practicum**

2.00 Credits

This course provides a supervised practice experience in a clinical acute care setting. This course is coordinated with and taught concurrently with Clinical Nutrition II. Didactic instruction and the supervised practicum are coordinated to allow the student to apply medical nutrition therapy and develop the specific competencies of a dietetic technician in an acute care hospital clinical setting.

Prerequisite: DIE 2270.

Corequisite: DIE 2271.

DSC 1002**Introduction to Terrorism**

3.00 Credits

This course teaches the foundations of national security as it relates to international and domestic terrorism and the United States engagement in the war against terrorism. This course is a survey of the history and development of terrorist organizations and extreme political militancy both in the United States and the world.

DSC 1003**Introduction to Homeland Security**

3.00 Credits

This course provides an introspective review of the history U.S. Homeland Defense Initiative and will explore the evolution of homeland security in the United States including an overview of the government agencies and laws involved.

DSC 2033**Weapons of Mass Destruction**

3.00 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**

3.00 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**

3.00 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.