Courses in this catalog are grouped under applicable department headings and are listed in alphanumeric order. The term "credit" as used in reference to courses is semester hour credit where one college credit is based on the learning expected from the equivalent of one hour of classroom instruction per week for 15 weeks (full term). It means credit towards a degree from the College, and does not necessarily mean credit transferable to another institution. The designation (3 Credits – 3 Hours) after a course is indicative of a 3 credit hour course that meets for the equivalent of 3 hours per week (full term). Not all courses are offered in all terms or at all campuses. For current offerings, consult the list of credit courses available prior to registration each term at SJRstate.edu/courses. Courses offered by the Florida School of the Arts are described in the portion of this catalog devoted to the Florida School of the Arts on page 253.

✚ Lab fee is not required if course is taken online
+ Examination fee requirements
◆ Meets A.A. degree requirements

BACHELOR OF APPLIED SCIENCE IN INFORMATION SYSTEMS TECHNOLOGY

CAP 3104
Human-Computer Interactions
(3 credits - 3 hours)
In this course, students learn the foundational concepts of Human-Computer Interaction (HCI), including human-centered design principles and interaction, modalities, design guidelines and heuristics, and interface evaluation techniques.

CIS 3080
Introduction to Cloud Computing
(3 credits - 3 hours)
This course provides a comprehensive overview of the cloud infrastructure and services and their underlying management mechanisms including data center virtualization and networking, cloud security and reliability, big data analytics, scientific, and commercial application.

CIS 3360
Principles of Information Security
(3 credits - 3 hours)
This course provides an introduction and overview of security issues for organizational and institutional computing. Physical, software, and computing systems security will be discussed. Students will be required to perform introductory security analyses, write code to automate some security preparedness tasks, and set up a protection scheme for a simple PC computer.

CIS 3523C
Managing IT Projects
(3 credits- 4 hours)
This course provides an overview of the tools and concepts needed to lead an information technology project team using the methodology phases: define, measure, analyze, improve and control. The course provides understanding in how to implement, perform, interpret, and apply the concepts.

CIS 3641C
Cloud Development Essentials
(3 credits - 4 hours)
Prerequisite: CIS 3080 with a "C" or higher. This course is designed to help students gain technical expertise in development with cloud technologies. Throughout the course, students will explore scenarios that provide opportunities to build a variety of infrastructures through the use of cloud developer technologies. Students will build apps through code driven languages and secure them in a cloud environment. In addition, students will use functions, containers, and application program interfaces to build cloud solutions.

CIS 4356
Information Security and Risk Management
(3 credits - 3 hours)
This course provides an in-depth examination of how to manage and reduce IT-associated risks. The course provides an overview of risk management and its implications on IT infrastructures.

CIS 4365
Computer Security Policies and Disaster Preparedness
(3 credits - 3 hours)
When an organization's function is interrupted by disasters, accidents, or natural events, a loss of data and/or productivity may occur. The impact on the organization is determined by how prepared it is for dealing with these disruptions. This course provides a foundation in formulating computer security policies, and preparing a disaster recovery/business continuity plan.

CIS 4651C
Cloud Deployment and Operations
(3 credits - 4 hours)
Prerequisite: CIS 3641C with a "C" or higher. This course covers a flexible collection of software and programmatic delivery practices for cloud infrastructures. Students will learn how software and tools can improve deployment speed, consistency, and reliability by orchestrating cloud services and automated, repeatable cloud deployments. Topics cover but are not limited to infrastructure as a code (IAC), continuous integration/continuous delivery (CI/CD), and artificial intelligence/machine learning (AI/ML) deployments via cloud services for forecasting, data analytics, computer vision, and natural language processing (NLP).

CIS 4950
Senior Capstone Project or Internship
(3 credits - 3 hours)
Prerequisite: Permission of the Dean. This course is designed for students preparing to graduate. Students will be required to demonstrate their knowledge and skills applicable to their degree core competencies and outcomes. The course provides a cooperative work experience opportunity, or a directed project learning activity related to the student's academic major.

CNT 3408
Enterprise Security
(3 credit - 3 hours)
Prerequisite: CIS 3360 with a "C" or higher. This course covers the issues of providing computer security in an enterprise environment. Students will learn the threats to any enterprise and how to properly address these threats with an appropriate response.

CNT 4514
Wireless and Mobile Computing
(3 credits - 3 hours)
Prerequisite: CIS 3360 with a "C" or higher. Students will study wireless and emerging network technologies. They will examine the effects of mobility on network issues such as architecture, security, privacy, file systems, resource discovery, resource management (including energy usage), personal online identities, and other areas. Students will acquire hands-on experience with mobile and sensor platforms using Wi-Fi analyzers and Wireless scanners.

CNT 4704C
Advanced Network Traffic Analysis
(3 credits - 4 hours)
Prerequisite: CET 2610C with a "C" or higher. Students explore, define, implement, and troubleshoot advanced information technologies that relate to networking. Students concentrate on researching, presenting, and developing skills related to these technologies.

COP 3703
Database Design and Architecture
(3 credits - 3 hours)
This course is an in-depth study of Database Management Systems. The course focuses on the relational database which is the most common model used by businesses. The key topics include an overview of database systems, database design, the relational model, physical design, indexing, transaction management, concurrency management, recovery, and tuning. In addition, some non-relational topics will be addressed such as data warehousing, decision support, and data mining databases.

COP 3538
Data Structures for IT
(3 credits - 3 hours)
Prerequisite: COP 2551 with a "C" or higher. The course formalizes the concepts of algorithm and time complexity. Data structures, such as Heaps, lists, queues, stacks and various forms of trees are covered. Students design and analyze algorithms, and numerous classic algorithms are covered.

COP 4655C
Mobile Application Development
(3 credits - 4 hours)
Prerequisite: COP 2551 with a "C" or higher. The course covers development techniques for mobile devices with a concentration on current technology, including current frameworks and tools. The course covers the components for mobile device applications including user interfaces, data persistence, application packaging, various sensors including location, API access, ADS, permissions, and push notifications. A project will provide the opportunity to apply learned knowledge to a working mobile application.

COP 4813
Web Application Programming
(3 credits - 3 hours)
Prerequisite: COP 2360 with a "C" or higher. This course introduces students to advanced concepts in the creation of applications utilizing the Web. Students will be exposed to topics such as client-server communications, dynamic data presentation, software design, planning and architecture. Students will get knowledge and practice in designing applications which utilize Web technology created using enterprise level programming languages and tools.

CTS 4457
Data Visualization and Communications
(3 credits - 3 hours)
During the first half of the course, students will learn how to make more effective visualizations of data. Students will gain deeper insight into the data and learn how to better communicate that insight to others. Students will learn new ways to display data, applying some fundamentals principles of design and human cognition to choose the most effective way to display different kinds of data. In the second half of the course, students will focus on storytelling, learning how to turn complex data into a visual story.

ISM 3321
Cybersecurity Fundamentals
(3 credits - 3 hours)
Prerequisite: CET 2610C or 2660C with a grade of "C" or higher. The course covers the management of information security problems, including attack methods, detection, and prevention techniques, cryptography, firewalls, and intrusion detection systems, security policies and risk management and incident response.

ISM 4322C
Advanced Cybersecurity
(3 credits - 4 hours)
Prerequisite: ISM 3321 with a "C" or higher. This course covers the advanced knowledge and awareness of cybersecurity. The content of the course focuses on web attacks, wireless network defense, session hijacking, mobile device security, and internet of things (IOT) vulnerabilities. It includes the prevention of infrastructure security threats and developing control methods for secure system implementations.

BACHELOR OF APPLIED SCIENCE IN ORGANIZATIONAL MANAGEMENT

BAS specialized courses are not offered every semester; refer to rotation for availability. MAN 4900 has to be completed in the student's final semester. GEB 3213 is a prerequisite for all 4000-level courses. The first semester the student takes 3000 or 4000 level courses, the student must also take GEB 3213.

BUL 3130
Legal, Ethical and Social Aspects of Business
(3 Credits - 3 Hours)
This course explores the nature of legal, ethical, and societal environments of business. Emphasis is placed on social, legal, political, and ethical responsibilities to both external and internal groups in business. Topics include corporate social responsibility, legal, political and ethical aspects of business, state and federal laws, contracts, intellectual property, employment law, product liability, safety issues, and environmental regulation.

CGS 4362
Organization and Information Technology Systems
(3 Credits - 3 Hours)
Prerequisites: GEB 3213, CGS 1100, and MAN 3240 with a grade of "C" or higher. This course provides students with an understanding and practical application in the use of electronic information systems, including organizational management of such systems. Topics will include management software, data collection, analysis, reporting and distribution, and processes for evaluating software and hardware to determine what will meet the varying needs of the organization.

FIN 3400
Financial Management
(3 Credits - 3 Hours)
Prerequisites: ACG 2021C, ACG 2071, and ECO 2013 or ECO 2023 with a grade of "C" or higher. This is an introductory course in managerial finance in which the students gain a clear, basic understanding of the fundamentals of finance and its related decision-making. The course will cover all elements of organizational finance including budget development, finance management, procurement, accounting and auditing. A key component of the course will be the student's preparation and presentation of an organizational budget.

GEB 3113
Entrepreneurship
(3 Credits - 3 Hours)
The purpose of this course is to provide an overview of the range of skills and practical knowledge needed to plan and execute an entrepreneurial venture. Topics for discussion include creativity and innovation, desirable entrepreneurial attributes, business planning, small business strategy, accounting and financial tools, and global entrepreneurship.

GEB 3213
Advanced Business Communications
(3 Credits - 3 Hours)
Prerequisite: ENC 1102 and CGS 1100 with a grade of "C" or higher. This course is required prior to taking 4000-level classes. This course emphasizes the basics of business writing while reviewing the various kinds of written business correspondence. Students are expected to integrate business decision making and analytical thinking skills into the content. Students

must be able to determine solutions to problem-based exercises.

GEB 4891
Strategic Management and Decision Making
(3 Credits - 3 Hours)
Prerequisites: GEB 3213, MAN 2021, STA 2023, and MAN 3353 with a grade of "C" or higher. This course emphasizes strategic planning and strategy implementation in an organization. Students learn how to perform internal and external audits, identify problems, formulate goals and objectives, develop action plans, and evaluate the effectiveness of the outcome of the plan. Case studies are used to promote decision-making abilities.

HSA 3110
Health Administration
(3 Credits - 3 Hours)
This course provides an introduction to the principles of health services administration. Emphasis is placed on health policy, planning, marketing, current health problems, personal health care services, bioethical decisions, and personnel. Contemporary issues and principles of health services administration, and the effects of shifts of economic, social, political, and technological forces that merge and coalesce to meet or fail to meet the changing health care and medical needs in the United States.

HSA 3113
U.S. Health Care Systems
(3 Credits - 3 Hours)
An overview of the varied types of health care facilities and health delivery systems operating in the United States, their purpose, organization, need in society, general function, and staffing. Facilities such as hospitals, nursing and rehabilitation centers, health maintenance organizations, private and public outpatient clinics, and neighborhood health care centers are analyzed and discussed.

HSA 3150
Health Care Policy
(3 Credits - 3 Hours)
This course provides students with an overview of health care policy in the United States. The course includes major health care legislation with special emphasis on the critical role of health care managers in policy making.

HSA 3191
Health Care Informatics
(3 Credits - 3 Hours)
A study of health information systems with focus on analysis of applications for information systems in the health care delivery system. Emphasis will be placed upon skills necessary to employ the methods used to evaluate a variety of information systems applications in the health care setting.

HSA 4170
Health Care Finance
(3 Credits - 3 Hours)
Prerequisites: GEB 3213, ACG 2021C, and HSA 3110 with a grade of "C" or higher. This course will familiarize students with financial management, one of the primary responsibilities of health care managers. The course will prepare students entering middle management to be more effective and efficient in achieving the institution's goals.

HSA 4383
Continuous Quality Improvement/Risk Management Systems
(3 Credits - 3 Hours)
Prerequisites: GEB 3213 and HSA 3113 with a grade of "C" or higher. The students will examine current efforts to improve quality and efficiency of health care systems. Topics range from issues of medical error reduction, quality improvements in medical records, and utilization review, to models for continuous quality improvement in physician-health care worker-client relations.

HSA 4430
Health Care Economics
(3 Credits - 3 Hours)
Prerequisites: GEB 3213 and HSA 3110 with a grade of "C" or higher. The students will examine the macro and microeconomic perspectives of health care including the production, marketing, distribution, pricing, and relative measures of quality health care as it is delivered. Health care as a public and private good will be examined contrasting and comparing private market delivery and pricing systems with the more socialistic approaches in many countries. Health care agencies and programs (Medicare, Medicaid, HMOs, PPOs, etc.) and topics such as the principle-agent problem, moral hazard, and information problems on the demand side will be examined. On the supply side, issues such as managed care organizations, third-party payers systems, medical schooling, and malpractice insurance will be addressed. At the macro level, the course will examine the impact of health care practices on inflation, productivity, and the implications of an aging population on the national economy.

ISM 3321
Cybersecurity Fundamentals
(3 Credits - 3 Hours)
Prerequisite: GEB 3213 with a grade of "C" or higher. The course covers the management of information security problems including attack methods, detection and prevention techniques, cryptography, firewalls, and intrusion detection systems, security policies and risk management, and incident response.

ISM 4011
Information Systems Management
(3 Credits - 3 Hours)
Prerequisites: GEB 3213, CGS 1100 and MAN 3240 with a grade of "C" or higher. This course designed to prepare students in the use of information technology in the business environment. Emphasis is placed on relationships of management information systems and data processing to managerial decision-making in modern organizations. Software applications will be used for data collection and analysis in real-world decision making and problem solving.

MAN 3240
Organizational Behavior
(3 Credits - 3 Hours)
This course is a study of individual and group behavior in organizations. Students will develop an understanding of how organizations can be managed more effectively. Course content includes motivation, group dynamics, conflict resolution, goal setting and rewards, job design, work stress, power/politics, and organizational change and development.

MAN 3353
Management Theory and Practices
(3 Credits - 3 Hours)
This course examines management theory, relevant applications and cases, self-management, teamwork, global awareness, and communication for the development of management competencies.

MAN 4120
Leadership and Group Dynamics
(3 Credits - 3 Hours)
Prerequisites: GEB 3213 and MAN 3240 with a grade of "C" or higher. Discussion and application of leadership theories including skill formation to develop leadership abilities. Team building skills are emphasized to enhance leadership effectiveness. Students learn the importance of visioning in their organizations.

MAN 4162
Customer Relations for Managers
(3 Credits - 3 Hours)
Prerequisite: GEB 3213 with a grade of "C" or higher. This course examines relationship building for all customers of an organization. The impact of

culture and diversity on business relationships, successful negotiation strategies, and promotion of the organization through media relations are discussed.

MAN 4301
Human Resource Management
(3 Credits - 3 Hours)
Prerequisites: GEB 3213 and BUL 3130 with a grade of "C" or higher. This course is a study of the functions of human resource management including recruitment, selection, benefits and compensation, performance evaluation, development of employees, and formulation of human resource procedures. The strategic role of human resources and current issues will be discussed.

MAN 4504
Operational Decision Making
(3 Credits - 3 Hours)
Prerequisites: GEB 3213 and MAN 3353 with a grade of "C" or higher. This course focuses on operational decision-making management techniques to improve the process and productivity in organizations. Discussion of quality and outcomes, efficiency, forecasting, work-flow processes, inventory control, design of goods and services, waiting lines and critical path. Managing a project from beginning to end, including how to identify needs and define, assign and track items, is addressed.

MAN 4900
Capstone – Organizational Management
(3 Credits - 3 Hours)
Prerequisites: GEB 3213 and Senior standing or permission of the Program Director. This course focuses on the integration of knowledge, skills and abilities learned in the program through a capstone project. Students can choose an internship or course-based option.

BACHELOR OF SCIENCE IN EARLY CHILDHOOD EDUCATION

Note: Students enrolling in the Bachelor of Science in Early Childhood Education must be cleared by a school board background check before the end of the add-drop period prior to entering the first course. Field exposure in school settings from K-3rd grade provides students enrolled in this program with the understanding of the expectations and responsibilities of public school teachers in a K-3rd grade setting. Courses assigned which require field experience/observation hours are noted in the course description. Students will be assigned to a classroom setting designated by the Office of Teacher Education in the district of their choice within the college's service area. The field experience is completed outside of the scheduled class meeting time.

EDF 3214
Human Development & Learning
(3 Credits - 3 Hours)
This course covers the various stages of human development, learning theories, and the application to teaching/learning situations. Identification and analysis of students' academic, physical, cognitive, emotional, motivational, and social development is emphasized with a focus on the interaction between the role of the teacher and the needs and learning styles of his or her students.

EDF 3430
Measurement, Evaluation, & Assessment in Education
(2 Credits - 2 Hours)
This course explores the basic concepts of educational measurement, instructional objectives, and student assessment techniques. Teacher candidates will learn how to strengthen the learning process through classroom assessment techniques, the interpretation of standardized tests, and evaluation of student progress using measurement results.

EDF 4444
Assessment of Learning and Behavior
(3 Credits - 3 Hours)
This course is for Recertification/Certification purposes. Students must submit a copy of their Temporary/Professional Teaching Certificate or valid Statement of Eligibility. Please contact the Teacher Education Department before registering for this course at 386-312-4242. This course is designed to help teachers develop high quality assessment instruments for use in the classroom. Teachers will attain a knowledge of planning for assessment, testing validity and reliability, as well as distinguish the difference between norm referenced and criterion-referenced testing. Students will also learn to interpret student assessment data to identify gaps in student learning and measure student learning gains. The course will assist teachers in gaining the concepts and skills related to planning, development, administering, and interpreting assessments.

EDG 3620
Curriculum & Instruction
(3 Credits - 3 Hours)
This course is an introduction to the field of curriculum and instruction. Teacher candidates will understand the principles of curriculum development and the use of instructional strategies. The foundation of this course will include the development, implementation, and evaluation of lesson plans appropriate to the specific ability level of the intended audience.

EDG 4343
Instructional Strategies
(3 Credits - 3 Hours)
This course is for Recertification/Certification purposes. Students must submit a copy of their Temporary/Professional Teaching Certificate or valid Statement of Eligibility. Please contact the Teacher Education Department before registering for this course at 386-312-4242. This course will provide the guidance and tools to design, teach, and reflect on classroom lessons and units using instructional strategies as a process for making teaching decisions. This course provides a setting to discuss the challenges you will face in the classroom.

EDG 4410
Classroom Management & Communication
(3 Credits - 3 Hours)
This course provides strategies for creating a safe and stimulating learning environment that encourages positive social interaction and effective communication among members of the learning community. Emphasis is placed on attitudes, language patterns, values, and behaviors to support and maintain student learning as well as on-task behavior. Additionally, this course includes methods and strategies for consulting with other school professionals and the child's family unit.

EDG 4419
Building Classroom Management and Discipline
(3 Credits - 3 Hours)
This course is for Recertification/Certification purposes. Students must submit a copy of their Temporary/Professional Teaching Certificate or valid Statement of Eligibility. Please contact the Teacher Education Department before registering for this course at 386-312-4242. This course focuses on principles and strategies for developing and maintaining an effective classroom environment for diverse learners. Strategies for whole class management as well as management of challenging behaviors will be explored. This course includes students' behavioral traits, teachers' obligations in discipline, organizing systems of management and a comprehensive review of outstanding strategies and tactics for effective classroom management and discipline. Participants will conduct an assessment on personal strengths and weaknesses in classroom management, as well as design a comprehensive classroom management plan.

EEC 3404
Child, Family, & Community Partnerships
(3 Credits - 3 Hours)
This course focuses on the varying cultural contexts of young children and the development of positive collaborative relationships between teachers and families. This course guides the development of a parent involvement plan that includes effective ways to communicate with parents, conference with parents, and plan parent meetings. Additionally, this course will facilitate the

development of and implementation of community involvement programs in early childhood settings.

EEC 4211
Integrated Mathematics & Science
(4 Credits - 4 Hours)
Prerequisite: EDG 3620. This course develops an understanding and integrated application of science and mathematical concepts for the appropriate stages of cognitive development of young children. Focus is given to exploring sequential math development, identifying how concepts are developed and acquired, and promoting the young children's concept development through problem solving and assessing the child's developmental level. Additional focus given to teaching science strategies using concept development, process of inquiry, planning for fundamental concepts in science including activities for young children at the appropriate stages of cognitive development, and utilizing appropriate current technology to support teaching and learning. This course includes a field experience component. This course requires fifteen (15) hours of field experience/observation in a classroom setting designated by the Office of Teacher Education in the district of the student's choice within the college's service area. The field experience is completed outside of the scheduled class meeting time.

EEC 4212
Integrated Language Arts, Children's Literature, Social Sciences
(4 Credits - 4 Hours)
Prerequisite: EDG 3620. This course develops the foundations and integrated application of language/emergent literacy, children's literature, and social sciences for the appropriate stages of cognitive development of young children. Focus is given to exploring appropriate curriculum in language arts, children's literature, and humanities with an emphasis on how learning experiences are integrated throughout the curriculum. Additional focus given to teaching strategies and activities for young children while utilizing appropriate current technology to support teaching and learning. This course requires fifteen (15) hours of field experience/observation in a classroom setting designated by the Office of Teacher Education in the district of the student's choice within the college's service area. The field experience is completed outside of the scheduled class meeting time.

EEC 4241
Integrated Music, Art, & Movement
(4 Credits - 4 Hours)
Prerequisite: EDG 3620. This course promotes the skills, concepts, creativity, and enjoyment in music, art, dramatic play, and movement to create expressive learning activities for young children. The role of the teacher includes instructional strategies for integration, assessment, and concept development to encourage growth and participation for all students. This course requires fifteen (15) hours of field experience/observation in a classroom setting designated by the Office of Teacher Education in the district of the student's choice within the college's service area. The field experience is completed outside of the scheduled class meeting time.

EEC 4930
Senior Seminar
(2 Credits - 2 Hours)
Prerequisite: Senior Status. Corequisite: EEC 4940. This seminar course, taken concurrently with EEC 4940, will meet throughout the semester with the college intern supervisor to discuss teaching/learning issues.

EEC 4940
Student Internship
(8 Credits - 8 Hours)
Prerequisite: Senior Status. Corequisite: EEC 4930 and RED 4940. This course is a full day, full semester internship with placement in a primary grade (K-3rd) during which the teacher candidates demonstrate the ability to apply knowledge, skills, and dispositions in authentic situations under the direction of a certified classroom teacher and college supervisor in an approved setting. Teacher candidates will plan, implement, and evaluate activities relevant to the classroom setting. Teacher candidates will be observed and evaluated by the college supervisor and classroom teacher. This course requires 12 weeks in a K-3 subject area classroom with no less than 300 hours of direct teaching instruction in a classroom setting designated by the Office of Teacher Education in the district of the student's choice within the college's service area. Students will spend a minimum of 45 hours in direct reading instruction (included in the 12-week internship.) The internship is completed outside of the scheduled class meeting time.

EEX 3012
Educational Needs of Students with Exceptionalities
(3 Credits - 3 Hours)
This course provides an overview of students with specific educational needs and exceptionalities while focusing on characteristics, definitions, and prevalence of disabilities, the referral process, service delivery models, and the pedagogical approach of exceptional students. Teacher candidates will understand the history of, legal basis for, and contemporary issues in special education. Special attention will focus on the expectation that all students have learning strengths.

EEX 4034
Exceptional Learners in the Inclusive Classroom
(3 Credits - 3 Hours)
This course is for Recertification/Certification purposes. Students must submit a copy of their Temporary/Professional Teaching Certificate or valid Statement of Eligibility. Please contact the Teacher Education Department before registering for this course at 386-312-4242. This course is to introduce inclusive educators to the characteristics, evaluation and identification of students with exceptionalities. This course examines current issues, legislation, education reform, strategies and interventions in working with students with disabilities, as well as effective special education service models.

EEX 4604
Behavior Management for Special Needs & At-Risk Students
(3 Credits - 3 Hours)
Prerequisite: EEX 3012. This course covers the strategies and techniques necessary for managing the physical environment and behaviors of children with special needs. The emphasis of this course will focus on behavior management and consultation skills. Teacher candidates will apply knowledge to create and maintain an on-task, safe, and healthy learning environment for learning in the exceptional and inclusive classroom.

RED 3309
Early & Emergent Literacy
(3 Credits - 3 Hours)
This course will increase understanding of early literacy development and conditions, which promote total literacy from birth through lower elementary grades. Language theory and current research will shape informed practices regarding literacy development. Connections made among all aspects of literacy learning: reading, writing, listening, speaking, and attitude development. Additionally, this course explores and develops related activities to foster a balanced, positive, constructive attitude towards literacy in young children.

RED 4342
Foundations of Research Practice in Reading Education
(3 Credits - 3 Hours)
This course is for Recertification/Certification purposes. Student must submit a copy of their Temporary/Professional Teaching Certificate or valid Statement of Eligibility. Please contact the Teacher Education Department before registering for this course at 386-312-4242. This course provides an understanding of the principles of scientifically based research as the foundation of comprehensive instruction. This course teaches assessment of literacy development, language structure and function and cognition of phonemic awareness, phonics, fluency, vocabulary, and comprehension.

RED 4511
Intermediate Literacy: Reading & Thinking
(3 Credits - 3 Hours)
Prerequisite: RED 3309. This course combines the theory and practice in the teaching of reading/literacy in the elementary intermediate grades. Procedures for meeting individual differences, differentiated instruction, selected use of materials, and classroom organizations will be examined. This course requires thirty (30) hours of field experience/observation in a classroom setting designated by the Office of Teacher Education in the district of the student's choice within the college's service area. The field experience is completed outside of the scheduled class meeting time.

RED 4519
Diagnosis & Intervention in Reading
(3 Credits - 3 Hours)
Prerequisite: RED 3309. This course provides diagnostic and instructional interventions in reading through formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results, and planning instructional interventions to remediate reading deficiencies. This course requires twenty (20) hours of field experience/observation in a classroom setting designated by the Office of Teacher Education in the district of the student's choice within the college's service area. The field experience is completed outside of the scheduled class meeting time.

RED 4940
Final Reading Practicum
(3 Credits - 3 Hours)
Prerequisite: Senior Status. Corequisite: EEC 4940. This course is the supervised reading portion of the final internship to give clinical experience in reading for the pre-service teacher. This course provides clinical experience in increasing student reading performance through the utilization of appropriate strategies and materials. This course aligns to the Florida Reading Competencies, which include language development, cognition, research-proven best practices, and differentiated instructions. Teacher candidates will work directly with K-3 teachers and students in the public schools in large group, small group, and individual settings to connect all aspects of literacy instruction. This course requires forty-five (45) hours of field experience/observation in a classroom setting designated by the Office of Teacher Education in the district of the student's choice within the college's service area. The 45 hours of field experience is included in the 12-week internship in a K-3 area classroom with no less than 300 hours of direct teaching instruction. The field experience is completed outside of the scheduled class meeting time.

TSL 3080
Principles & Practices of ESOL I
(3 Credits - 3 Hours)
This course introduces issues, principles, theories, research, and best practices of teaching English to Speakers of Other Languages. The goal of this course is to develop the foundation of knowledge necessary to prepare educators to understand the concepts upon which second language acquisition are based in addition to the impact these concepts will have on instruction.

TSL 3083
ESOL Issues and Strategies
(3 Credits - 3 Hours)
This course is for Recertification/Certification purposes. Student must submit a copy of their Temporary/Professional Teaching Certificate or valid Statement of Eligibility. Please contact the Teacher Education Department before registering for this course at 386-312-4242. This course introduces instructional strategies for teaching students of limited English proficiency including instruction in the English language. The goal of this course is to develop the foundation of knowledge necessary to prepare educators to understand the concepts upon which second language acquisition are based in addition to the impact these concepts will have on instruction.

TSL 4081
Principles & Practices of ESOL II
(3 Credits - 3 Hours)
Prerequisite: TSL 3080. This course builds on TSL 3080 with the goal to link the theory and practice for effective teaching of ESOL (English Speakers of Other Languages). The course will emphasize methods, curriculum, and assessment of ESOL students. This course requires twenty (20) hours of field experience/observation in a classroom setting designated by the Office of Teacher Education in the district of the student's choice within the college's service area. The field experience is completed outside of the scheduled class meeting time.

BACHELOR OF SCIENCE IN CRIMINAL JUSTICE - APPLIED INTELLIGENCE STUDIES

CCJ 3081
Combating Cybercrime
(3 credits - 3 hours)
Cybercrime has been with us since the advent of the computer. However, as our reliance on computers and the internet of things (IOT) has grown, the amount of cyber-related crime and malfeasance has grown exponentially. Computers have allowed criminals to "scale-up" their reach and the consequences and financial gains of their plunders. Accordingly, every state and the federal government have enacted laws prohibiting unauthorized use of computers, and in recent years, governments have tried to harmonize these laws internationally.

CCJ 3484
Ethics in Policing and Intelligence
(3 credits - 3 hours)
This course explores ethics for both the criminal justice system and intelligence professionals. It will compare and contrast the differing roles ethics plays in policing and intelligence communities. The course probes significant past and current events to illuminate issues relevant to ethics in intelligence and policing.

CCJ 3621
Patterns of Criminal Behavior
(3 credits - 3 hours)
Review the nature and extent of the crime problem in America. The course concentrates on major patterns of offender behavior, including crimes of violence, property crimes, economic, syndicated, political crimes, and consensual crime.

CCJ 3691
Sex Offenses and the Offender
(3 credits - 3 hours)
Comprehensive overview of psychological, sociological, and legal issues related to sexual offenses. Additionally, the sexual offenders and different typologies of the sex offender will be addressed.

CCJ 4014
Crime in America
(3 credits - 3 hours)
Prerequisite: CJE 1006. A survey of crime and criminality in the United States, with an emphasis on crime data, its weaknesses, and types of criminal behavior.

CCJ 4032
Crime and the Media
(3 credits - 3 hours)
Relationship among media crimes, criminals, and the criminal justice system. Specifically, the impact of the media and media attention on the operations of the criminal justice system will be examined.

CCJ 4072
Crime Mapping and Analysis
(3 credits - 3 hours)
This course is designed to introduce the student to crime mapping (coordinate tracking of criminal events and GIS) and crime analysis (the statistical evaluation of criminal events and criminal intelligence).The student will work with crime data, coordinate data, UCR data and gathered intelligence, to understand correct force deployment and response to crime, for crime-prevention and solvability. The student will also be introduced to serialized crime identification, recognition, and response.

CCJ 4644
White Collar Crime
(3 credits - 3 hours)
An examination of both individual criminality in the course of one's occupation and the crimes of formal organizations and corporations. Attention will be placed on the nature of the societal reaction to these "upper class" illegalities.

CJE 3732
Criminal Intelligence
(3 credits - 3 hours)
This course focuses on the production of intelligence from the analysis of multiple and diverse sources of information and on its use by formal and informal intelligence agencies. Emphasis is placed on the role of local public safety and security personnel and organizations as both producers and consumers of intelligence and on their relationship to the formal intelligence agencies.

CJE 4663
Crime Analysis I
(3 credits - 3 hours)
An introductory course in the utilization of the computer in criminal justice agencies, including an overview of hardware and software components of general-purpose computer systems. No prior knowledge of any phase of data processing or computer science is assumed.

CJE 4692
Technology and Crime
(3 credits - 3 hours)
This course will introduce the student to recent advances in technology that impact investigations and crime prevention. The course will examine strategic-level technologies such as databases, GIS systems, crime mapping by computer, etc. The course will examine ways in which technology assists law enforcement on a tactical level, through such innovations as in-car laptops, advanced communications devices, night-vision systems, etc. Students who lack a thorough background in computers will benefit from this course's overview of technology basics. While not a prerequisite, this course will provide a basis for a later course dealing with cyber-crime. Students will learn about the nationwide databases that share information, such as NCIC and AFIS, and how agencies are using database technology to combat the problems of fragmentation. Students will learn about geographic profiling and GIS systems, and their use on a strategic level.

CJE 4734
Intelligence Collection Strategies
(3 credit - 3 hours)
Prerequisite: CJE 4663. This course examines the formal intelligence collection process with emphasis on open source and human intelligence. Students will become familiar with the process of developing comprehensive strategies to produce intelligence by satisfying levied requirements using a variety of intelligence sources available to local public safety and security personnel.

CJJ 3545
Social Problems of Youth
(3 credits - 3 hours)
An overview of contemporary social issues of youth with special focus on the influence of violence in schools, family violence and neglect, and general patterns of youth violence. Influence and effects of substance abuse are examined. The formation and impact of gangs, gang behavior and gang culture are analyzed.

CJL 4513
Forensic Analysis of Juries
(3 credits - 3 hours)
This course will focus on the modern American jury and will include an in-depth analysis of current research related to jury selection, decision-making, and group dynamics.

BACHELOR OF SCIENCE IN NURSING

NUR 3065
Health Assessment
(3 Credits)
Total Course Hours: Didactic 41.25 Hours; Lab 7.5 Hours
Prerequisite or corequisite: NUR 3805. This course focuses on a holistic approach to health assessment that builds on the assessment skills developed in the nurse's basic educational program. Emphasis is on assessment and analysis of self-care requisites to identify self-care deficits across the life span. Emphasis is on the process of patient interaction and use of appraisal skills in the collection of bio-psychosocial data across the life span and understanding the role of the professional nurse in analysis of health status data. The student is given opportunities to integrate theoretical knowledge into practice sessions using demonstration, medium and high fidelity simulation scenarios, deliberate practice, and reflection.

NUR 3125
Pathophysiology
(3 Credits – 3 Hours)
Prerequisite or Corequisite NUR 3805. This course focuses on the study of pathological changes of the human body from normal to changed mechanical, physiological, and biochemical functions resulting from altered hemostasis, injury, or disease process. The course will emphasize how disrupting normal structures and functions of the human body leads to disease processes from the cellular to the multi-system level. Included is the critical examination of the mechanisms underlying signs and symptoms, complications, and prognosis of commonly occurring diseases across the lifespan.

NUR 3164
Informatics and Evidenced-Based Practice
(3 Credits – 3 Hours)
Prerequisite/corequisite: NUR 3805. This course focuses on the integration of data, information, and knowledge through the use of information technologies to inform nursing practice. Students examine how informatics supports evidenced-based nursing practice that is safe and knowledge-based through the use of expanded access to clinical research findings and decision support tools for clinical practice. The course reviews nursing informatics theory, practice applications in care delivery and management, and emerging trends in informatics. Students are introduced to basic concepts of evidence-based practice, research processes, and critical appraisal of research and information. Legal and ethical issues in research and information utilization are explored.

NUR 3169
Applied Evidence-Based Practice in Professional Nursing Practice
(3 Credits - 3 Hours)
Online - 45 Hours
Prerequisites: STA 2023 and NUR 3164 with a grade of "C" or higher. This course focuses on the application of evidence-based clinical and management practices to improve the delivery and outcomes of patient care in a variety of settings. Emphasized is the use of contemporary research to inform nursing management and clinical decisions. Establishment of individual evidence-based nursing management and clinical practices and career development are examined. The student will use evidence-based practice to solve current

healthcare management and clinical problems.

NUR 3655
Community, Diversity, and Population-Based Care
(3 Credits)
Total Course Hours: Didactic 30 Hours; Practice Experience 45 Hours
Prerequisite: NUR 3805. The focus of this course is community health nursing practices with families, aggregates, and communities. This course examines the social, economic, ethnic, and cultural influences on beliefs, values, and practices in relation to health, illness, and health-seeking behaviors. An emphasis is placed on epidemiology, population risk assessment, health promotion, risk reduction, chronic disease prevention, environmental heath, vulnerable populations, contemporary health issues, and development of healthier individuals, aggregates, and communities. The role of the professional nurse in the provision of community and population-based care is explored.

NUR 3805
Professional Roles and Dimensions of Professional Nursing Practice
(3 Credits – 3 Hours)
Prerequisite: Admission to the Bachelor of Science in Nursing and ENC 1102. This introductory course is designed for the returning RN to facilitate the transition from the registered nurse's basic educational program to the baccalaureate level of practice. It includes an exploration of the evolution of nursing as a profession, the contemporary role of the professional nurse, and issues and theories related to professional nursing practice in dynamic healthcare environments for diverse populations. Professional writing, APA documentation, and presentations using PowerPoint are introduced. It is recommended that this course be taken first.

NUR 3826
Legal and Ethical Issues in Nursing
(3 Credits - 3 Hours)
Online - 45 Hours
Prerequisite: NUR 3805. This course explores theories, models, and principles of legal and ethical decision making in clinical and in management health care delivery situations in a variety of health care settings. Clinical and nursing management decision-making dilemmas are identified and analyzed toward refining critical thinking and advocacy on the part of the nurse. This course provides the student opportunities to utilize models, processes, and ethical and legal frameworks of decision making as a foundation for clinical and leadership practices.

NUR 3837
Introduction to Nursing Management Systems
(3 Credits – 3 Hours)
Prerequisite: NUR 3805. The purpose of this course is to introduce the foundations of healthcare policy, the financial structures of healthcare systems, and the accreditation and regulatory environments that have impact on nursing practice and patient care. Contemporary issues of healthcare management systems, the future of healthcare delivery, and the role of nursing to influence healthcare systems' decisions are explored. The student will examine healthcare systems that incorporate modern technology, evidence-based decision making, information and outcomes management, cost containment strategies, and the nursing core value of quality care. Topics will include financial, operational, regulatory, accreditation, quality management, and clinical aspects of management.

NUR 4894
Teaching and Learning in Nursing Practice
(3 Credits – 3 Hours)
Prerequisite: NUR 3805. This course focuses on the provision of instruction applicable to individuals across the lifespan and to small groups of learners in a variety of settings. Emphasis is placed on the supportive / educative role of the nurse to assess, develop, implement, and evaluate education related to health promotion, maintenance of wellness, disease prevention, disease management, and quality of life. Teaching and learning theories and concepts are integrated related to effective collaboration with healthcare service organizations and communities, curriculum development, contemporary instructional strategies, challenges and barriers to learning, and cultural diversity.

NUR 4949
Nursing Capstone
(3 Credits)
Total Course Hours: Didactic 30 Hours; Practice Experience 45 Hours
Prerequisite: Director approval required. Previous or concurrent completion of the nine other BSN courses (NUR 3805, 3065, 3125, 3164, 3169, 3655, 3826, 3837 and 4894). The Capstone course integrates the academic and the practical knowledge acquired during the curriculum to further develop the student's application of the nursing process and critical reasoning in health promotion, risk reduction, direct and indirect care of patients, families, and aggregates in various healthcare settings. Emphasis is on resolving complex patient care problems, providing the human interface between healthcare systems and the patient, and on the professional nursing roles of care provider/coordinator, teacher, collaborator, manager and problem solver. This course includes a practicum to enhance the student's knowledge and expertise in areas of complex patient care and delivery and management. The practicum includes opportunities for scholarly inquiry, professional writing, collaboration, communication, and presentation. The student is required to demonstrate the competencies consistent with program outcomes.

BUSINESS

ACG 2021C
Principles of Financial Accounting ◆
(3 Credits - 4 Hours)
Prerequisite: MTB 1103, MAT 1033 or any general education math course with a grade of "C" or higher or satisfactory scores on the math placement exam at the college algebra level. The course is designed to familiarize the student with the theory, logic, and concepts used in financial accounting. Course content includes: journalizing, posting, preparing a trial balance, adjustments, corrections, and closing; preparation of the income statement, balance sheet, changes in owner's equity and cash flow statement; current assets, inventory, long-term assets and liabilities; corporate capital structure, retained earnings and financial statement analysis. Emphasis is placed on comprehension of accounting principles and concepts in addition to mastery of accounting skills.

ACG 2071
Principles of Managerial Accounting ◆
(3 Credits - 3 Hours)
Prerequisite: ACG 2021C with a grade of "C" or higher. This course is designed to familiarize the student with the theory, logic and concepts used in managerial accounting. Course content includes: job - order costing, process costing, cost-volume-profit relationships, departmental accounting, profit planning, standard costs, flexible budgets, decentralized operations, pricing, and capital budgeting decisions. Emphasis is placed on comprehension of managerial accounting principles and concepts in addition to mastery of accounting skills.

ACG 2450
Computer Accounting Applications
(3 Credits - 3 Hours)
Prerequisite: ACG 2021C. This course is designed to give students experience using a computerized accounting system to enhance knowledge gained in earlier accounting courses and prepare them for the job market. Students will gain practical knowledge in generating invoices, cash disbursements, cash receipts, inventory control, accounts payable journals, customer ledgers, vendor ledgers, job order costing, fixed asset depreciation, company set-ups, and internet accounting services.

BAN 1004
Principles of Banking/Credit Union Operations
(3 Credits -3 Hours)
This course touches on nearly every aspect of banking/credit unions, providing a comprehensive introduction to the diversified services and operations of the banking / credit union industry today. The history, evolution and trends of banking / credit unions are explored as well as the documents, language and services of banking / credit unions.

BAN 2240
Consumer Lending
(3 Credits -3 Hours)
This course is designed to provide accurate and authoritative information regarding consumer lending. Emphasis is placed on all types of credit including installment and single payment loans extended to individuals primarily for the purpose of buying goods and services for their personal consumption. This course also covers theory needed by students to administer the full spectrum of collection activities while simultaneously maintaining good customer relations.

BUL 1241
Business Law I ◆
(3 Credits - 3 Hours)
This is a study of the environment in which businesses operate. Consideration is given to legal and social constraints on business. The student is introduced to the judicial system; administrative, tort, and contract law; agency; business organizations; and governmental regulations.

BUL 2242
Business Law II ◆
(3 Credits - 3 Hours)
Prerequisite: BUL 1241. This is a study of legal concepts in the business and commercial setting. Substantive areas to be covered include personal property, sales, commercial paper, secured transactions, real property, and estates.

FIN 1100
Personal Finance ◆
(3 Credits - 3 Hours)
This course includes a study of budgeting, borrowing, financial institutions, family finance, home ownership, insurance, estate planning, and the buying and selling of stocks, bonds, and mutual funds. In addition, the correlation between education and income will be discussed.

FIN 2231
Money, Banking, and International Finance ◆
(3 Credits - 3 Hours)
This course presents a fundamental treatment of how money functions in the U.S. and world economics. Domestic Banking: Topics include the concept of money supply and the role of your bank. How the various types of financial institutions operate, the workings of monetary and fiscal policies, the functions and powers of the Federal Reserve. International Banking: Topics include fundamental, mainstay topics of international banking such as foreign exchange, collections, letters of credit, and international financing agencies.

GEB 1011
Introduction to Business ◆
(3 Credits - 3 Hours)
This course is a study of business organization, management and ownership, Wholesaling, retailing, advertising, international trade, employee training, compensation and labor relations, financing, risk and security markets, accounting and controls, business regulations, and taxes are included in this course.

GEB 2214
Business Communications ◆
(3 Credits - 3 Hours)
Prerequisite: Test scores at the Composition I level or completion of ENC 1101 with a grade of "C" or higher. This course is a study of the underlying principles of written and oral business and application communications for today's business world including letters, memos, and reports. Students will also practice oral communication with attention to posture, gestures and facial expression during the presentations.

GEB 2350
Introduction to International Business ◆
(3 Credits - 3 Hours)
This course provides an overview of the cultural environment of international business and the institutions which affect business today. International economic, political and trade issues are analyzed in the context of socioeconomic goals and policies of the nations involved. Additionally, this course will focus on the fundamentals of systems of payments, balance of trade, and management operations of multinational companies. The effects of contrasting political systems on international business relationships will also be examined.

GEB 2930
Special Topics - Capstone
(1-4 Credits - 1-4 Hours)
Prerequisite: Permission of the Director. This course is designed for students preparing to graduate and transition to employment and/or continuing education. Students will complete development of an online portfolio to include a cover letter, resume, work samples, and completion of an approved culminating project. Additionally, students will complete a job search related to their areas of interest and will apply for jobs prior to graduation.

MAN 2021
Principles of Management ◆
(3 Credits - 3 Hours)
This is an introduction to the world of management with emphasis on the mid-manager. Topics include the fundamental knowledge base, including motivation, behavioral processes, group dynamics, organizational structure, systems, and change. The management processes reviewed include planning, leading, organizing and controlling and control. Emphasis is also placed on communication skills.

MAN 2043
Principles of Quality Management
(3 Credits - 3 Hours)
This course is an introduction to the principles, techniques and basic tools of quality and business process improvement used by organizations. Topics include continuous process improvement, performance measures, Statistical Process Control, benchmarking, and the use of various management tools used to achieve continuous process improvements and customer satisfaction. Emphasis will be placed on understanding how the tools are implemented to aid in quality and process improvement in the supply chain.

MAN 2300
Introduction to Human Resource Management ◆
(3 Credits - 3 Hours)
This is an introduction to the role of human resources management. Topics include the personnel management system, maximizing employee potential, organizational behavior, labor management relations, remuneration, security, and assessment research. The course may include student projects and case studies.

MAN 2500
Operations Management ◆
(3 Credits - 3 Hours)
This course introduces students to operations management techniques including their application to functional areas of the business enterprise and operations control. Topics include the design and management of

production operations, including productivity, strategy, capacity planning, location, layout, resource management, just-in-time systems, materials requirement planning, and project management. Upon completion, students should be able to demonstrate the ability to make decisions and resolve problems in an operations management environment.

MAR 2011
Principles of Marketing ◆
(3 Credits - 3 Hours)
This is a study of basic marketing principles, theory, and functions of marketing. The course is designed to provide fundamental knowledge in the field, with the foundation necessary for further study in business or marketing.

MAR 2141
International Marketing
(3 Credits - 3 Hours)
This course focuses on marketing principles specific to international business settings. An emphasis is placed on the role of the marketing manager in the development of international marketing strategies for a variety of markets in diverse cultural and economic situations. The decision-making process in the areas of foreign market analysis, identifying target markets, product planning, product promotion, and channels of distribution is explored and analyzed.

MAR 2321
Advertising
(3 Credits -3 Hours)
This course presents a comprehensive overview, from a managerial viewpoint, of the field of advertising and shows the relationship of advertising to history, economics, marketing, social institutions, and consumer behavior. Included in the study are sales promotion, media organization, market functioning, brand promotion, analysis of consumer behavior, budgeting, legislation, and regulations. The course culminates with the student planning an advertising campaign.

MAR 2410
Personal Selling
(3 Credits -3 Hours)
This course is a study of the buying-selling cycle with emphasis on the role of salespeople in the free-enterprise system, application of sales principles, components of the sales presentation, and an introduction to sale management.

MAR 2723
Social Media Implementation
(3 Credits - 3 Hours)
This course emphasizes the development and implementation of a marketing strategy with an emphasis on social media applications. Content will be developed for specific social media platforms. Topics covered will include development of an e-marketing plan, market segmentation and targeting strategies, customer relationship management techniques and the differentiation of owned and paid media.

MNA 2320
Human Resource Recruitment, Selection and Staffing
(3 Credits -3 Hours)
This course introduces students to the basic principles and techniques of staffing the workplace. Students will be introduced to basic and intermediate level theories and strategies utilized in staffing, planning, recruiting, and selection. Topics covered include: job analysis, recruitment, selection, and performance assessment.

MNA 2325
Compensation & Benefit Administration
(3 Credits -3 Hours)
This course focuses on the strategic use of compensation and benefits systems for the purposes of attracting, retaining, and motivating a competitive workforce. Major topic areas will include designing compensation systems, bases for pay, employee benefit programs, laws affecting compensation practices, and compensation challenges for various employee groups.

MTB 1103
Business Mathematics
(3 Credits - 3 Hours)
Prerequisite: Satisfactory scores on the placement examination. This course is designed to give students an understanding and application of mathematical concepts to business activities and to increase competence in the fundamental business mathematical skills. Mastery of mathematical concepts and the solving of problems involved in business: payrolls, depreciation, bank statements, interest, discounts, notes, insurance, taxes, commissions, financial statements, business stocks and bonds, annuities, and statistical data.

RMI 2110
Personal Insurance Planning ◆
(3 Credits - 3 Hours)
The course includes methods of analysis in handling personal risk exposures, including insurance coverage alternatives. Integration of life, health and accident, property and liability, profit-sharing, and private and governmental insurance and pension programs are also included.

RMI 2212
Personal and Business Property Insurance ◆
(3 Credits - 3 Hours)
This course provides an overview of personal and business property risks and coverages which may be used in dealing with these risks, including the underwriting, marketing and social problems associated with these coverages. Additional topics include commercial and residential fire insurance, inland marine and transportation coverages, and multi-peril contracts.

RMI 2662
Introduction to Risk Management and Insurance ◆
(3 Credits - 3 Hours)
This course is an introduction to the principles, practices, and economics of insurance. Topics include fire, life and casualty contracts, and various types of business and contingency risks.

TAX 2002
Small Business and Individual Taxes
(3 Credits - 3 Hours)
Prerequisite: ACG 2021C with a grade of "C" or higher. This course provides students with knowledge of United States income taxation as it relates to small businesses and individuals. An historical perspective is presented, as well as the Internal Revenue Code and the impact on small business and individuals.

TRA 2010
Transportation & Distribution ◆
(3 Credits - 3 Hours)
This course explores the role and importance of transportation in the distribution of goods. The focus of the course will be on the infrastructure of the freight transportation system, modes of transportation, transportation regulations and public policy. Students will be introduced to the carrier cost structures, operating characteristics and policy regulations regarding each of the transportation modes.

TRA 2131
Purchasing & Inventory Management
(3 Credits - 3 Hours)
This course provides a comprehensive introduction to the purchasing and supply chain management field. Cases cover purchasing and supply chain issues in a variety of settings, from process industries to high tech manufacturing and services as well as public institutions. Emphasis is on the purchasing process as it relates to such topics as inventory control

procedures, price/cost analysis, laws and ethics, vendor selection and the development of vendor relationships.

TRA 2154
Introduction to Supply Chain Management ◆
(3 Credits - 3 Hours)
This course provides a general knowledge of Supply Chain Management and the associated functions necessary for delivery of goods and services to customers. The course will focus on what employees and managers must do to ensure an effective supply chain exists in their organization. Students will be introduced to the following topics: overview of SCM functions such as order processing, transportation, warehousing, purchasing and inventory, E-Commerce, information flow and customer service.

TRA 2230
Warehouse Management
(3 Credits - 3 Hours)
An introduction to the practical concepts of warehousing including the types of equipment, storage processes and systems, the technologies used to identify and track units in a warehouse, and the regulations designed to ensure safety in warehouse operations.

COMMUNICATIONS

AML 2010
American Literature I ◆
(3 Credits - 3 Hours)
Prerequisite: ENC 1102 with a grade of "C" or higher. AML 2010 is a study of selected American writers and literary trends from colonial times to the mid-19th century. AML 2010 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

AML 2010
Honors American Literature I ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program and ENC 1102 with a grade of "C" or higher. AML 2010 is a study of selected American writers and literary trends from colonial times to the mid-19th century. AML 2010 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

AML 2020
American Literature II ◆
(3 Credits - 3 Hours)
Prerequisite: ENC 1102 with a grade of "C" or higher. AML 2020 is a study of selected American writers and literary trends from mid - 19th century to the present. AML 2020 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

AML 2020
Honors American Literature II ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program and ENC 1102 with a grade of "C" or higher. AML 2020 is a study of selected American writers and literary trends from mid-19th century to the present. AML 2020 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

AML 2601
African-American Literature I ◆
(3 Credits - 3 Hours)
Prerequisite: ENC 1102 with a grade of "C" or higher. A survey of African-American Literature that reflects the rich tradition of published writings created by African-American authors. In the course, students discover a variety of African-American literary genres and themes from the earliest documented records to contemporary African-American culture. This course emphasizes terminology and literary constructs necessary for the students to read and understand text, materials and written dialogues of African-American writers. The development of appropriate skills and techniques enabling students to review and analyze written works, such as narrative, poetry, short story, and novel are stressed. AML 2601 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

AML 2601
Honors African-American Literature I ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program and ENC 1102 with a grade of "C" or higher. A survey of African-American Literature that reflects the rich tradition of published writings created by African-American authors. In the course, students discover a variety of African-American literary genres and themes from the earliest documented records to contemporary African-American culture. This course emphasizes terminology and literary constructs necessary for the students to read and understand text materials and written dialogues of African-American writers. The development of appropriate skills and techniques enabling students to critically review and analyze written works, such as narrative, poetry, short story, novel etc. are stressed continually. AML 2601 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

CRW 2001
Creative Writing I ◆
(3 Credits - 3 Hours)
Prerequisite: ENC 1102 with a grade of "C" or higher. An intensive course in the writing of short fiction (with brief attention to the writing of poetry and drama) of publishable quality. CRW 2001 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

ENC 1101
Composition I ◆
(3 Credits - 3 Hours)
Prerequisite: College ready status, satisfactory score on a placement test, or completion of developmental reading and writing with a grade of "C" or higher or enrollment in a corequisite developmental education course as applicable. This course introduces students to rhetorical concepts and audience-centered approaches to writing including composing processes, language conventions and style, and critical analysis and engagement with written texts and other forms of communication. ENC 1101 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

ENC 1101
Honors Composition I ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program and either a satisfactory score on a placement test or completion of developmental reading and writing with a grade of "C" or higher. This course introduces students to rhetorical concepts and audience-centered approaches to writing including composing processes, language conventions and style, and critical analysis and engagement with written texts and other forms of communication. ENC 1101 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030. This course involves significant reading, writing, discussion, challenge problems and/or student participation.

ENC 1102
Composition II ◆
(3 Credits - 3 Hours)
Prerequisite: ENC 1101 with a grade of "C" or higher. ENC 1102 is an advanced composition course with an emphasis placed on critical thinking skills, conducting academic research, and research-based writing using MLA documentation. Students will practice proper and correct in-text citations, will compile a Works Cited, and will demonstrate synthesis and seamless integration of sources into their writing, with a strong emphasis on understanding and avoiding plagiarism. Students will be trained in the identification and searching of major databases found in SJR STATE electronic

resources and will write several documented papers and one longer research paper. Students will make an oral presentation. Course content may focus on the main styles of argumentation or a study of literary techniques, conventions, and genres, either undertaken as a foundation for writing about and with primary and secondary sources. An exit grade of "C" or higher is required. ENC 1102 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

ENC 1102
Honors Composition II ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program and ENC 1101 with a grade of "C" or higher. ENC 1102 is an advanced composition course with an emphasis placed on critical thinking skills, conducting academic research, and research-based writing using MLA documentation. Students will practice proper and correct in-text citations, will compile a Works Cited, and will demonstrate synthesis and seamless integration of sources into their writing, with a strong emphasis on understanding and avoiding plagiarism. Students will be trained in the identification and searching of major databases found in SJR STATE electronic resources and will write several documented papers and one longer research paper. Students will make an oral presentation. Course content may focus on the main styles of argumentation or a study of literary techniques, conventions, and genres, either undertaken as a foundation for writing about and with primary and secondary sources. An exit grade of "C" or higher is required. ENC 1102 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

ENC 2210
Technical and Professional Report Writing ◆
(3 Credits - 3 Hours)
Prerequisite: ENC 1101 with a grade of "C" or higher. A study and practice of the writing and design of documents in technical and professional discourse communities. Students will produce documents representing a number of technical genres: correspondence, reports, a proposal, a real-world project, and a final portfolio. These assignments will be taken from real-world situations and will present students with a set of rhetorical consideration constraints. This course will approach technical writing rhetorically, discussing such topics as organizational conventions, visual design, and style in the context of specific rhetorical situations. ENC 2210 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

ENG 2100
Film as Narrative Art ◆
(3 Credits - 3 Hours)
Prerequisite: ENC 1101 with a grade of "C" or higher. An introduction to film as it reflects and shapes 20th and 21st century cultures. Stress is placed upon critical analysis of film's narrative structure and how that structure draws from and expands upon literary narrative. The course will also present students with an overview of film history and acquaint them with basic film techniques. ENG 2100 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

ENL 2012
English Literature I ◆
(3 Credits - 3 Hours)
Prerequisite: ENC 1102 with a grade of "C" or higher. ENL 2012 is a study of English literature from Anglo-Saxon times through the 18th century. Representative selections from each period are studied. ENL 2012 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

ENL 2012
Honors English Literature I ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program and ENC 1102 with a grade of "C" or higher. ENL 2012 is a study of English Literature from Anglo-Saxon times through the 18th century. ENL 2012 is a Gordon Rule writing course as defined by SBE Rule 6A- 10.030. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

ENL 2022
English Literature II ◆
(3 Credits - 3 Hours)
Prerequisite: ENC 1102 with a grade of "C" or higher. ENL 2022 is a study of English literature from the close of the 18th century to the present. ENL 2022 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

ENL 2022
Honors English Literature II ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program and ENC 1102 with a grade of "C" or higher. ENL 2022 is a study of English Literature from the close of the 18th century to the present. ENL 2022 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

ENL 2330
Introduction to Shakespeare ◆
(3 Credits - 3 Hours)
Prerequisite: ENC 1102 with a grade of "C" or higher. ENL 2330 is a study of selected works by William Shakespeare. ENL 2330 is a Gordon Rule writing course as defined by SBE Rule 6A- 10.030.

ENL 2330
Honors Introduction to Shakespeare ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program and ENC 1102 with a grade of "C" or higher. ENL 2330 is a study of selected works by William Shakespeare. ENL 2330 is a Gordon Rule writing course as defined by SBE Rule 6A- 10.030. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

IDS 1110
Honors Explorations ◆
(3 Credits – 3 Hours)
This course teaches the nature of knowledge acquisition throughout the General Education curriculum. The course is taught by Honors faculty and draws its cross-disciplinary content from the disciplines of communications, humanities, mathematics, sciences, and social science. The fundamental goal of the course is to help students appreciate the interconnectedness of knowledge across the entire range of academic disciplines and be able to synthesize information in an original and engaging way from a variety of sources by teaching them how to exercise critical thinking, collaboration, and communication skills. As a result, students will have the ability to develop, and, ultimately, apply these skills for success in both college and the professional world. This course is required as an orientation course for all students entering the Honors Program. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

LIT 2182
Modern Irish Literature ◆
(3 Credits – 3 Hours)
Prerequisite: ENC 1102 with a grade of "C" or higher. Modern Irish Literature is a study of selected Irish writers and literary trends from 1885 - present. This course is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

LIT 2182
Honors Modern Irish Literature ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program and ENC 1102 with a grade of "C" or higher. LIT 2182 is a study of selected Irish writers and literary trends from 1885 - present. This course is a Gordon Rule writing course as defined by SBE Rule 6A-10.030. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

LIT 2380
Literature by Women ◆
(3 Credits - 3 Hours)
Prerequisite: ENC 1102 with a grade of "C" or higher. LIT 2380 is a study of selected women writers ranging in historical scope from the Middle Ages to the present in order to understand the role that women writers have played in the context of the western literary tradition and to examine the unique challenges, attitudes, and historical changes that impacted women writers. LIT 2380 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

LIT 2380
Honors Literature by Women ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program and ENC 1102 with a grade of "C" or higher. LIT 2380 is a study of selected women writers ranging in historical scope from the Middle Ages to the present in order to understand the role that women writers have played in the context of the western literary tradition and to examine the unique challenges, attitudes, and historical changes that impacted women writers. LIT 2380 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

SLS 1122
Academic Pathways for College Success ◆
(3 Credits - 3 Hours)
This course is designed to teach students effective strategies and techniques consistent with success in an academic setting while actively transitioning to college. Emphasis is on orienting students to SJR State and its resources, teaching students how to utilize effective study and test taking strategies, equipping students to navigate academic and career pathways, and creating a sound academic and career plan. Topics also include financial literacy, time management, presentation skills, and information and media literacy. Throughout this course, students will be encouraged to develop a greater sense of self-awareness as they learn how to maintain their well-being and exercise self-care in order to be able to handle academic, professional, and personal challenges they may face.

SLS 1301
Life and Career Development ◆
(3 Credits - 3 Hours)
This course is designed to aid the college student in life and career planning. The course discusses the areas of opportunity in the employment market as well as appropriate educational programs in preparing for those employment areas, are discussed. Modern techniques and standardized testing are utilized in assisting the student in personal career and life choices. Students will be involved in activities that provide opportunities for exploration and practice in job-seeking techniques, resume writing, life and career choices, and interviewing skills.

SLS 1401
Comprehensive Career Exploration ◆
(3 Credits - 3 Hours)
This course is designed to facilitate life and career decision-making through a process of developing self-awareness. Students will be involved in activities that encourage examination of personality characteristics, interests, personal, and occupational values. Techniques in career research will be explored and practiced. The world of work will be explored through job search strategies. Opportunities will be provided for exploration of ethical concerns, attitudes, beliefs, and abilities as they relate to career and life choices.

SPC 1608
Fundamentals of Speech ◆
(3 Credits - 3 Hours)
A course designed to help students improve oral communication. Practice accompanied by student critiques and to self-evaluate assets and identify faults to be overcome. Attention given to effective posture, gesture, expression, and movement. Assignments are made to emphasize importance of organization, clarity, interest, and persuasion.

COMPUTER INFORMATION SYSTEMS

Many computer courses require the use of content specific software. Please be sure you have access to the software to be successful in courses in which it is required.

CAP 1760
Introduction to Data Analytics
(3 Credits - 3 Hours)
This course is designed for students who require or are interested in basic aspects of data analytics. Using domain specific data, students learn the computerized techniques by which to organize, manipulate, report, present, depict, and analyze domain-specific data in order to derive important information.

CAP 2023
Introduction to Game Programming
(3 Credits - 3 Hours)
Prerequisite: COP 1000 with a grade of "C" or higher. During this course students will complete a ready-to-play game. This is a fast-paced, hands-on class to introduce the student to programming essentials, scripting, networking, gui, textures, and skins. Students program client and server modules; users interface; animate 3-D characters, vehicles, terrains, and environments; program sound and music; and finally play test the finished game.

CAP 2047
User Interface Design
(3 Credits - 3 Hours)
Prerequisite: COP 1000 with a grade of "C" or higher. Explores designing effective user interfaces for software applications with respect to user needs and activities. Topics include designing for device size, usability engineering, voice and natural language interface, methods of analyzing user response, interface response time and feedback, and color consideration.

CAP 2741
Data Visualization and Modeling
(3 Credits - 3 Hours)
This course teaches students how to analyze data. Students will study how to build scalable and robust data models to work from as well as how to clean and combine different data sources. Visual data models for analysis using commonly available tools will be developed. Topics include charts, tables, graphs, maps, infographics and dashboards.

CAP 2762
Introduction to Data Mining
(3 Credits - 3 Hours)
Prerequisite: COP 1700 with a grade of "C" or higher. This course offers exploration of data mining methodologies. Topics may include decision tables, decision trees, classification rules, association rules, clustering, statistical modeling, and linear models and will focus on data warehousing, data mining and data drilling.

CET 1178C
Computer Hardware Support Essentials
(3 Credits - 4 Hours)
Prerequisite: CGS 1060 with a grade of "C" or higher. This course provides students with the knowledge needed to support users of personal computers in an organization. It focuses on the hardware dimension. Students are taught the skills needed to service, troubleshoot, diagnose and repair computer hardware and peripherals. Lab work includes hands on disassembly, diagnosis and repair, and reassembly of personal computers. This course prepares students for the CompTIA A+ hardware certification.

CET 1600C
Network Fundamentals
(3 Credits - 4 Hours)
Prerequisite: CNT 1001 with a grade of "C" or higher. This course provides the knowledge needed to support local and wide area networks in an organization. It introduces students to software and hardware used to implement modern data communications networks. The course includes these topics: network architecture, network protocols, IP addressing, subnetting, the Cisco router user interface, switching technologies and the IP routing process. This course is the first in a four course sequence designed to prepare students for the Cisco Certified Network Associate (CCNA) certification. This course is only offered at Orange Park campus.

CET 2179C
Computer Software Support Essentials
(3 Credits - 4 Hours)
Prerequisite: CGS 1060 with a grade of "C" or higher. This course provides students with the knowledge needed to support users of personal computers in an organization. It focuses on the software dimension, both operating systems and applications. Students are taught the skills needed to service, troubleshoot, diagnose and correct operating system problems. Lab work includes hands on work with several versions of operating systems. This lab work includes updating and installation of patches and service packs as well as updating application and utility software. This course prepares students for the CompTIA A+ Software certification.

CET 2565C
Introduction to Server Operating Systems
(3 Credits - 4 Hours)
Prerequisite: CNT 1001 with a grade of "C" or higher. This course covers the major concepts and mechanisms of server operating system administration. Installation, updating and maintaining, creating and administering user accounts, group accounts, group policies and print services will be covered. The latest version of Microsoft's Windows Server operating system will be used.

CET 2610C
Routing Protocols and Concepts
(3 Credits - 4 Hours)
Prerequisite: CET 1600C with a grade of "C" or higher. This course provides the knowledge needed to support local and wide area networks in an organization. It introduces students to software and hardware used to implement modern data communications networks. The course includes these topics; router architecture, static and dynamic routing protocols, distance vector and link state routing protocols to include; RIP versions 1 and 2, EIGRP, and OSPF, Classless Interdomain Routing (CIDR) and Variable Length Subnet Masking (VLSM), the Cisco router command line (CLI) user interface, switching technologies and the IP routing process. This course is the second in a four course sequence designed to prepare students for the Cisco Certified Network Associate (CCNA) certification. This course replaces CET 2605C. This course is only offered at Orange Park campus.

CET 2615C
LAN Switching and Wireless
(3 Credits - 4 Hours)
Prerequisite: CET 2610C with a grade of "C" or higher. This course is designed to prepare students to understand and apply LAN switching and wireless concepts. Some of the topics covered include the switched LAN architecture, basic switch concepts and configuration, Virtual LANs (VLANs), VLAN Trunking Protocol (VTP), Spanning Tree Protocol (STP), Intern-VLAN routing, and basic wireless concepts and configuration. This course is the third in a four course sequence designed to prepare students for the Cisco Certified Network Associate (CCNA) certification. This course replaces CET 2622C. This course is only offered at Orange Park campus.

CET 2660C
Network Security Essentials
(3 Credits - 4 Hours)
Prerequisite: CET 1600C with a grade of "C" or higher. This course introduces all aspects of computer information and network security. Topics included are: risks and liabilities, types of attacks, access control and site security, firewalls, server and client security, cryptography, application program security, incident and disaster response and managing the security function.

CET 2883C
Attack Prevention and Detection
(3 Credits - 4 Hours)
Prerequisite: CET 2660C with a grade of "C" or higher. This course provides an introduction to the process of penetrating a computer or network for which one has official permission to do so with the goal of determining if vulnerabilities exist and to undertake preventive, corrective, and protective countermeasures before an actual compromise to the system takes place. Topics include: Footprinting; Scanning technologies; Enumeration; Trojans, backdoors, worms, and viruses; Session Hijacking; Denial of Service; Hacking of Systems, Web Services, and Linux; Cryptography; Penetration Testing.

CGS 1060
Introduction to Computer Concepts ◆ ✚
(3 Credits - 3 Hours)
This is a basic computer literacy course including the history of computing, an introduction to the internet and the World Wide Web, computer and data communications terminology, a survey of computer-related careers, and an overview of data processing, information systems technologies, and applications programming.

CGS 1100
Microcomputer Applications Software ◆ ✚
(3 Credits - 3 Hours)
This is an introductory, "hands-on," course providing students with the basic terminology and concepts to use a microcomputer (PC). Students will master the basic concepts of the current Windows-based operating system and microcomputer applications programs. Applications include word processing, spreadsheet and database management programs using Microsoft Office as the tool for teaching these concepts.

CGS 1515
Spreadsheet Concepts for Business ✚
(3 Credits - 3 Hours)
Prerequisite: CGS 1100 with a grade of "C" or higher. This course is an in-depth study of functions common to spreadsheet applications in the business environment. Topics include interactive spreadsheet design, financial functions, graphs, macros, menus, data import/export, and databases.

CGS 1540
Database Fundamentals
(3 Credits - 3 Hours)
In this course the students are taught relational database design and how to create powerful applications using the Microsoft Access software package. Students are presented with topics such as designing, creating, and modifying tables, queries, forms, and reports with emphasis on business applications.

CGS 1560C
Microcomputer Operating Systems ◆
(3 Credits - 4 Hours)
Prerequisite or Corequisite: CGS 1060 or CGS 1100 with a grade of "C" or higher. This course is designed for the advanced microcomputer user. This course includes a study of functions common to microcomputer operating systems and their application to common problems in the business environment. Topics include data storage organization, data security, virus protection, task automation, and hardware management.

CGS 2514
Excel Data Analysis
(3 Credits - 3 Hours)
This course will give students the capability to learn the correct application of the principle features of excel in the area of Data Analysis. This includes creating and editing a workbook with multiple sheets, using a graphic element to represent data visually, creating and using workbook examples including professional-looking budgets, financial statements, team performance charts, sales invoices, and data-entry logs.

CGS 2545
Database Concepts for Business ✚
(3 Credits - 3 Hours)
Prerequisite: CGS 1100 or CGS 1060 with a grade of "C" or higher. This course is an in-depth study of functions common to database applications in the business environment. Topics include database design, data maintenance, report generation, advanced reporting, mailing label generation, multiple databases, and elementary programming.

CGS 2554
Introduction to Electronic Commerce ✚
(3 Credits - 3 Hours)
This course is an introduction to electronic commerce technologies using the internet. This course will address business through electronic commerce, business opportunities, and electronic commerce funds transfer. It will include social, ethical, and political issues associated with electronic commerce. Students will create a simple e-commerce website.

CGS 2820
Web Page Design and Publishing ✚
(3 Credits - 3 Hours)
Prerequisites: COP 2822 with a grade of "C" or higher. This is a course in website and Web page development. Design and management principles are presented along with development tools. Students will design website architecture and implement Web pages using the techniques, languages, and tools presented in the class. Adobe software products will be used to meet course requirements.

CGS 2871
Multimedia ✚
(3 Credits - 3 Hours)
This course is a comprehensive, "hands-on," introduction to multimedia. Learn the practical application of multimedia. Students will make sense of the vast dynamic field of multimedia. Using Adobe software products, students will develop multimedia content to meet course requirements.

CGS 2930
Special Topics in Computer Studies
(3 Credits - 3 Hours)
Prerequisite: Permission of program director. This course provides students with the opportunity to increase their knowledge in a content area related to their program of study. This course is designed around topics related to emerging technologies or those of special interest to the student and instructor. Topics may vary from semester to semester.

CGS 2949
Computer Information Technology Capstone
(3 Credits - 3 Hours)
Prerequisite: Permission of Program Director. This capstone course is designed for students in their final semester. Students will be required to demonstrate their knowledge and skills applicable to their degree core competencies and outcomes. The course provides a cooperative work experience opportunity or directed learning activity related to the student's academic major and career objectives.

CIS 2252
Computer Ethics ◆
(3 Credits – 3 Hours)
Prerequisite: CGS 1060 with a grade of "C" or higher. The course examines theory and practice of computer and information ethics, particularly to study the basis for ethical decision making and the methodology for reaching ethical decisions concerning computing and informational technology matters.

CIS 2321
Information Systems ◆
(3 Credits - 3 Hours)
Prerequisite: CGS 1060 with a grade of "C" or higher. This course is designed to introduce students to the fundamental concepts of information systems. Topics include the study, analysis, and design phases of the system development life cycle, current system documentation techniques, classical and high level fourth generation software tools/techniques, process flows, data flows, data structures, file design, input and output designs, and program specifications.

CIS 2621
Advanced Cybersecurity
(3 Credits - 4 Hours)
Prerequisite: CET 2610C with a grade of "C" or higher. Cybersecurity Operations covers the knowledge and skills needed to successfully handle the tasks, duties, and responsibilities of an associate-level Security Analyst working in a Security Operations Center (SOC) environment. Among other tasks, students will use various methods to prevent malicious access to networks, hosts, and data. Students will analyze intrusion data to verify potential exploits.

CNT 1001
Introduction to Networking
(3 Credits – 3 Hours)
The course introduces students to the basics of networking technology concepts. The students will study different types of networking hardware and devices, IP addressing, media and design, topology, OSI layer, structure cabling. The student will learn basic concepts of data communications.

COP 1000
Introduction to Computer Programming ◆ ✚
(3 Credits - 3 Hours)
Corequisite or prerequisite: CGS 1060 with a grade of "C" or higher. As an introduction to computer programming this course focuses on presenting the fundamentals of programming to students with no prior experience. Topics include problem solving using logic, algorithm design using pseudocode and flow charts, structured programming, data types, operations, expressions, control flow, functions and arrays. Hands on programming exercises are completed using a modern programming language.

COP 1700
Introduction to SQL
(3 Credits- 3 Hours)
Prerequisite: COP 1000 with a grade of "C" or higher. The course introduces students to SQL and the design and creation of object oriented databases. Topics include storing, retrieving, updating, and displaying data using structured query language.

COP 2220
Programming in C ◆
(3 Credits - 3 Hours)
Prerequisite: COP 1000 with a grade of "C" or higher. This course provides an introduction to the programming process. Topics in the course include types, operations, expressions, control flow, i/o, functions, program structure, software design techniques, and problem solving. Course concepts are reinforced with many programming projects throughout the term in the c programming language.

COP 2224
Programming in C++ ◆
(3 Credits - 3 Hours)
Prerequisite: COP 1000 with a grade of "C" or higher. This course provides students with a working knowledge of the C++ language and object-oriented programming. Topics include: Creating and using classes, inheritance, polymorphism, overloading, parameter passing, public, private and scope. The C++ language will be used both for in-class examples and student projects.

COP 2360
Programming in C#
(3 Credits - 3 Hours)
Prerequisite: COP 1000 with a grade of "C" or higher. This course introduces the C# programming language. Topics include language syntax, data types, arithmetic expressions, logical expressions, control structures, repetitive control structures, arrays, collections, and string manipulation. C# object oriented programming concepts including classes, inheritance, and polymorphism are covered.

COP 2551
Introduction to Object Oriented Programming with Java ◆
(3 Credits - 3 Hours)
Prerequisite: COP 1000 with a grade of "C" or higher. This course introduces the principles and practices of object oriented (OO) programming. Topics include user interface and problem data classes; class versus instance properties and methods; abstraction; encapsulation; inheritance and multiple inheritance; polymorphism; software design techniques; and problem solving. The concepts are utilized in numerous programming projects.

COP 2657
Introduction to Mobile App Programming
(3 Credits- 3 Hours)
Prerequisite: COP 1000 with a grade of "C" or higher. This course provides a comprehensive project experience in the development of mobile applications on popular OS platforms used on modern mobile devices. Students receive intensive tutorial introductions, covering hardware capabilities and limitations, the development environment, and the communications infrastructure used.

COP 2701
Advanced Database Concepts in Programming ✚
(3 Credits - 3 Hours)
Prerequisite: COP 1000 with a grade of "C" or higher. This course is designed to familiarize individuals with modern database technologies. Students will complete a series of database application projects using enterprise database software. Topics include advanced database design, data modeling, optimization, distribution, CAP theorem and other NOSQL Databases/Big Data concepts.

COP 2801
Programming in JavaScript ✚
(3 Credits - 3 Hours)
Prerequisites: COP 1000 and COP 2822 with a grade of "C" or higher. This course teaches students JavaScript - a language which extends HTML to produce dynamic Web pages. Students will learn JavaScript syntax and common applications such as form validation, popup menus, rollover effects and CGI interfaces. Dynamic Web page creation will also be covered.

COP 2805
Advanced Java Programming ✚
(3 Credits - 3 Hours)
Prerequisite: COP 2551 with a grade of "C" or higher. This is a hands-on advanced object-oriented programming course focused on object-oriented software design and Unified Modeling Language class diagram notation. Topics include inheritance, multiple inheritance, interfaces, polymorphism, graphical user interfaces, Applets, and the use of existing classes as provided in the current version of the Java API. Students will develop object-oriented software throughout the semester.

COP 2822
Web Page Authoring ◆ ✚
(3 Credits - 3 Hours)
Corequisite or Prerequisite: CGS 1060 or CGS 1100 with a grade of "C" or higher. This course covers the use of browser software to search, navigate, and view World Wide Web (WWW) pages. Hypertext Markup Language (HTML) and Cascading Style Sheets (CSS) will be used in the creation of Web pages.

COP 2830
Web Programming Languages ◆ ✚
(3 Credits - 3 Hours)
Prerequisite: COP 1000 with a grade of "C" or higher. This is a survey course of the major languages used to build websites including XHTML, PHP, MySQL and other current scripting languages. Students will learn the basic history and syntax as well as fundamentals in programming techniques and applications. Adobe software products will be used to meet course requirements.

COP 2837
Introduction to Programming with Visual Basic.NET ✚
(3 Credits - 3 Hours)
Prerequisite: COP 1000 with a grade of "C" or higher. This course is an introduction to .NET programming using Microsoft Visual Basic using an Integrated Development Environment (IDE). Topics include problem analysis, GUI design, coding, debugging, and testing, as well as the programming process and common software tools.

CTS 1387
Introduction to Linux
(3 Credits – 3 Hours)
Prerequisite: CGS 1060. The course entails a thorough coverage of the new version of the leading Linux certification from Linux Professional Institute. The course covers the objectives and materials presented in the LPIC-1 exams to include command line tools, managing software, configuring hardware, managing file and file systems, working with X window system, basic administration of users, files permissions, and basic networking.

CTS 2111C
Linux Network Administration
(3 Credits - 4 Hours)
Prerequisite: CET 1600C or CNT 2500 and CGS 1560C with a grade of "C" or higher. This course covers the skills needed to effectively administer Linux workstations and servers. Students will plan, install, maintain, troubleshoot and repair Linux operating system services.

CTS 2155
Customer Support Operations
(3 Credits - 3 Hours)
Prerequisite: CGS 1060 Intro to Computer Concepts or CGS 1100 with a grade of "C" or higher. This course is designed for computer information technology majors and covers the business, technical, and interpersonal skills needed to succeed in a help desk setting. It addresses all major aspects of help desk operations including customer support, processing and resolving incidents, and knowledge management.

CTS 2358C
Identity with Windows Server 2016
(3 Credits - 4 Hours)
Prerequisite: CNT 1001 with a grade of "C" or higher. This course addresses the concepts, terminology and technology covered through a deep investigation into the world of active directory and its associated technologies. Students will also learn about PowerShell along the way. The course provides students with the opportunity to get hands-on practice via virtual labs, for a complete learning experience in the world of Active Directory.

CTS 2370
Virtual Infrastructure Installation and Configuration
(3 Credits - 3 Hours)
Prerequisite: CET 2565C with a grade of "C" or higher. In this course students learn the concepts and capabilities of virtual architecture with a focus on the installation, configuration and management of a VMWare virtual infrastructure. This course covers fundamentals of virtual network design and implementation, fundamentals of storage area network, virtual switching, virtual management and engineering for high availability.

CTS 1142
Information Technology Project Management
(3 Credits - 3 Hours)
Prerequisite: CGS 1060 Intro to Computer Concepts and CGS 1100 Microcomputer Applications Software with a grade of "C" or higher. This course teaches the essentials of information technology project management. This course provides an introduction to the Project Management body of knowledge, as specified by CompTIA Project+. The course discusses the processes, methods, techniques and tools that organizations use to manage information systems projects. The course covers a systematic methodology for initiating, planning, executing, controlling, and closing projects and emphasizes the important special considerations which apply to Information Technology Projects.

DIG 1109
Digital Imaging Fundamentals ◆
(3 Credits- 3 Hours)
This project based course introduces students to the fundamental tools and techniques of creating digital images. Students will explore the use of modern computer software as a creative tool. Emphasis will be placed on color theory, image manipulation, compositing, image capture, digital illustration, typography, and vector graphics.

DIG 2101
Advanced Web Design
(3 Credits- 3 Hours)
Prerequisite: COP 2822 Web Page Authoring with a grade of "C" or higher. This project based course will allow students to explore advanced concepts in web design dealing specifically with the issues involved in creating interactive websites. Current industry software and techniques will be used to develop pages that contain interaction, animation, sound, and video.

CRIMINAL JUSTICE AND PUBLIC SAFETY

CCJ 1010
Introduction to Criminology ◆
(3 Credits – 3 Hours)
This course introduces students to theories of deviant behavior as it relates to criminal activity. Topics include theories of crime causation, analysis of data related to criminal behavior, crime control strategies, and other related topics. Upon completion of this course students will be able to explain and discuss various theories of crime and how they impact policy.

CCJ 1020
Introduction to Criminal Justice ◆
(3 Credits – 3 Hours)
This course is intended to introduce the student to the American criminal justice system and process. It describes the formal components of the criminal justice system, their history of evolvement, and their operations. The focus throughout is on people: the criminal offenders, the professional members, and the role of the public. The course also deals with the interaction of the members of this system with each other, the problems that exist to circumvent full cooperation between the sub-systems, and potential solutions to these problems.

CCJ 2358
Criminal Justice Report Writing
(3 Credits – 3 Hours)
Prerequisite: ENC 1101 with a grade of "C" or higher. This course prepares student through instruction and practice to properly prepare written reports common to the criminal justice profession.

CJC 1000
Introduction to Corrections ◆
(3 Credits – 3 Hours)
This course is intended to provide the student with a comprehensive overview of the history, philosophy and practices of corrections. Concepts to be considered will include punishment, imprisonment, probation, parole and treatment, organization and management of the institutions.

CJE 1000
Introduction to Policing ◆
(3 Credits - 3 Hours)
This course will present and analyze how police operate in America. This course will explain the mystique and misunderstanding surrounding police work and the hostility, controversy and resentment the profession generates. We will discover who police are and who they are not, what they can and cannot do and finally why their exact role in society remains so unclear.

CJE 1006
Police and Society
(3 Credits – 3 Hours)
An analysis of problems police face as they relate to the community and the procedures used by departments to meet those problems. Students will be given the opportunity to study the police role in relation to sociological and psychological dynamics of the community. The student will become knowledgeable of practices which foster positive community relations and police/citizen communication.

CJE 2600
Fundamentals of Criminal Investigation ◆
(3 Credits – 3 Hours)
A study of the fundamentals, principles, concepts, theory, and history of investigation. The course will cover investigative methods and techniques, case preparation, developing of leads, gathering of information, and collection and preservation of evidence.

CJE 2640
Introduction to Forensics - Crime Scene ◆
(3 Credits – 3 Hours)
The student is taught the scientific aspects of criminal investigations known as criminalistics from both an on-scene and in the crime laboratory standpoint.

CJE 2790
CJST CMS LE Bridge Course
(3 Credits - 3 Hours)
This course is nontransferable.
This bridge course is designed to add independent study, critical thinking, refection and analysis of course material presented in the CJST CMS LE BASIC Program. The additional course work (ex. Research papers) goes beyond what was learned in the LE Basic program to expand the students' knowledge in area of Constitutional Law, Criminal Evidence and Court Procedures, Introduction to Forensics, and Understanding Terrorism to add college level credit in alignment with the Associate of Science in Criminal Justice degree at St. Johns River State College.

CJJ 2001
Introduction to Juvenile Procedure
(3 Credits – 3 Hours)
An overview of the Criminal Justice System as it relates to juveniles and the nature of juvenile delinquency. This course will specifically examine laws, court procedures, and police work related to juvenile delinquency. Major

topics include: police practices dealing with juveniles, juvenile justice court procedures, and theories debated regarding causes and rehabilitation of juvenile offenders.

CJK 0002
Introduction to Law Enforcement
(12 Contact Hours)
This course is nontransferable.
This course provides an overview of the law enforcement basic recruit training program and the requirements to become a sworn officer. It describes basic criminal justice ethics and command structure. The course also provides a basic introduction to the criminal justice system.

CJK 0016
Communication
(24 Contact Hours)
This course is nontransferable.
This course focuses on aspects of professional communication officers should use on the job. It explains challenges to effective communication and concepts such as procedural justice, empathy, and professionalism.

CJK 0018
Legal
(64 Contact Hours)
This course is nontransferable.
The course provides foundational knowledge of the law and how officers apply the law to specific situations. The course describes the basics of enforcing laws without infringing on individual rights.

CJK 0019
Interviewing and Report Writing
(56 Contact Hours)
This course is nontransferable.
This course provides an introduction to lawful and effective interviews as part of the investigative process as well as the fundamentals of note-taking and report writing.

CJK 0020
Law Enforcement Vehicle Operations
(48 Contact Hours)
This course is nontransferable.
This course is intended to develop the proactive skills and principles of driving needed to operate a law enforcement vehicle safely during the day or at night. Further, student learning will focus on the ability to drive in an emergency mode, communicate with dispatch, and remain aware of the actions of other drivers, all of which present complexities not experienced in normal driving. Instruction will also center on the officer's awareness of the effects of physiological and psychological stressors on his or her driving, how the public views law enforcement drivers, and how to recognize and understand both the vehicle's and officer's limits. Moreover, students will be provided instruction on the basics of interior and exterior law enforcement vehicle inspection on the officer's assigned vehicle. Students will be required to pass a vehicle operations proficiency practicum.

CJK 0021
Serving Your Community
(34 Contact Hours)
This course is nontransferable.
This course provides an introduction to some of the diverse communities officers serve and provides an overview of how to respond with professionalism while keeping everyone on the scene safe.

CJK 0031
First Aid for Criminal Justice Officers
(40 Contact Hours)
This course is nontransferable.
This course emphasizes the responsibilities of a criminal justice officer in providing basic first aid at the scene of a medical emergency until EMS can arrive. Further, specific training will include preparing for and responding to emergencies at which basic first aid training may be needed. Moreover, students will be made aware of trauma-related and medical-related issues, scene stabilization and safety and legal guidelines. Students will be required to pass a first aid proficiency practicum.

CJK 0040
Criminal Justice Firearms
(80 Contact Hours)
This course is nontransferable.
This course includes firearms safety procedures and basic handling procedures for the handgun (revolver and semiautomatic pistol), shotgun, and semiautomatic rifle/carbine, to include component parts and function. Also included are fundamentals of marksmanship, identification and maintenance of ammunition, loading and unloading of firearms, malfunctioning weapons, and the cleaning of weapons. Further, instruction will be given on the use of cover and survival shooting. Because students are to attain proficiency in marksmanship and in safely using, handling, and maintaining weapons, a proficiency practicum will be required for both the pistol and shotgun.

CJK 0051
Criminal Justice Defensive Tactics
(80 Contact Hours)
This course is nontransferable.
This course offers students effective, tactically sound, and medically and legally defensible training in defensive tactics and control techniques. Further, it teaches students to select and properly execute techniques that are reasonable and necessary given the circumstances and factors of a situation. As a required portion of the course, training will include exposure to a chemical agent. Also, because students are expected to attain proficiency in the techniques and in the use of force guidelines, a comprehensive practicum will be administered.

CJK 0063
Fundamentals of Patrol
(40 Contact Hours)
This course is nontransferable.
This course provides an overview of the law enforcement techniques and tactics that officers use while on patrol. This course is an introduction to the use of communications equipment, community-oriented policing, and officer safety and survival skills. It also explains how to respond to non-criminal calls and conduct structure and area searches and provides resources that officers use while on patrol.

CJK 0072
Crimes Against Persons
(48 Contact Hours)
This course is nontransferable.
This course provides an introduction to the basics of conducting investigations and describes a variety of crimes involving people such as assault and battery, domestic violence, child abuse, sexual offenses, and human trafficking. It provides the foundational knowledge for initial response and investigation of these crimes.

CJK 0073
Crimes Involving Property and Society
(12 Contact Hours)
This course is nontransferable.
This course provides an introduction to a variety of crimes involving property and society, such as retail theft, fraud, and animal cruelty. It provides the foundational knowledge for initial response and investigation of these crimes.

CJK 0079
Crime Scene Follow-up Investigations
(34 Contact Hours)
This course is nontransferable.
This course is an introduction to methods for securing, protecting, and

preserving a crime scene to avoid contaminating any evidence. The course also explains the importance of collecting, documenting, and maintaining the physical evidence.

CJK 0093
Critical Incidents
(44 Contact Hours)
This course is nontransferable.
This course provides an overview of law enforcement techniques and tactics used when confronting large-scale or critical incidents, including natural disasters, active shooters, exposure to hazardous materials, and explosive devices.

CJK 0096
Criminal Justice Officer Physical Fitness Training
(60 Contact Hours)
This course is nontransferable.
This course introduces the concept that certain areas and levels of physical fitness are necessary for performing the essential functions of a law enforcement officer. Besides training in certain types of exercises, instruction will include elements of nutrition, weight control, and stress management.
In order to assist the College and the student with the improving of overall physical fitness, there will be two required assessments, one at the beginning of the course, and one at the end. The following physical components will be assessed both times: vertical jump, one minute sit ups, 300 meter run, maximum push-ups, and the 1.5 mile run.

CJK 0300
Introduction to Corrections
(32 Contact Hours)
This course is nontransferable.
This training provides an overview of the correctional officer training program and the requirements for becoming a certified officer. This will also help to provide a legal basis from which students may begin to function as correctional officers and gives instruction on basic criminal justice values, ethics, and ways to demonstrate professionalism when interacting with others.

CJK 0305
CJSTC Communications
(40 Contact Hours)
This course is nontransferable.
This training provides practical communication skills that will assist new correctional officers in managing and supervising inmates, giving directions, answering questions, and interacting with others in a professional and safe manner. The training covers interpersonal communications, telecommunications, interviewing, note taking, and report writing.

CJK 0310
Officer Safety
(16 Contact Hours)
This course is nontransferable.
This course gives an overview on safety and security concerns, identification, manipulation and deception, contraband, and searches; all issues that correctional officers must manage daily.

CJK 0315
Facility and Equipment
(8 Contact Hours)
This course is nontransferable.
This course provides correctional officers with a basic knowledge of standard equipment used, including weapons, hazardous materials, and sensitive supplies needed to keep correctional facilities clean, safe, and secure.

CJK 0320
Intake and Release
(18 Contact Hours)
This course is nontransferable.
This course provides correctional officers with a basic knowledge of intake, classification, and release processes used by county and state facilities.

CJK 0325
Supervising in a Correctional Facility
(40 Contact Hours)
This course is nontransferable.
The purpose of this course is to train the officer by developing supervisory and observational skills, practicing officer safety, and following the policies and procedures of his or her agency. This will enable the officer to ensure the safe operation of a correctional facility while fulfilling his or her responsibilities.

CJK 0330
Supervising Special Populations
(20 Contact Hours)
This course is nontransferable.
The course provides the officer with the basic knowledge of special population groups that they may encounter and the need to make special considerations when supervising these groups due to the individual characteristics. The officer should be aware of these special populations and respond appropriately when interacting with and supervising them.

CJK 0335
Responding to Incidents and Emergencies
(16 Contact Hours)
This course is nontransferable.
The purpose of this course is to teach correctional officers on how to apply knowledge, training, and reasonable judgment to ensure the safety and security of all persons at the facility during an emergency.

CJK 0340
Officer Wellness and Physical Abilities
(30 Contact Hours)
This course is nontransferable.
The purpose of this course is to provide the correctional officer with a structured physical fitness program that will educate the officer on the benefits of achieving and maintaining wellness and fitness.

CJK 0393
Crossover Program Updates
(8 Contact Hours)
This course is nontransferable.
This course is designed for instructors to deliver expanded or updated instruction on curriculum topics contained in this cross-over program, e.g., new techniques in a high liability area or application of relevant case law. The eight hours may be distributed as needed throughout the program.

CJK 0394
CPO: Cross-Over Program Updates
(10 Contact Hours)
This course is nontransferable.
This course is designed for instructors to deliver expanded and updated instruction on curriculum topics contained in this cross-over program, e.g., new techniques in a high liability area or application of relevant case law. The 10 hours may be distributed as needed throughout the program.

CJK 0400
Traffic Incidents
(12 Contact Hours)
This course is nontransferable.
This course is an introduction to the basics of traffic incidents other than traffic stops and includes lessons on legal terms and the fundamentals of directing traffic, addressing parking violations and conducting vehicle searches.

CJK 0401
Traffic Stops
(24 Contact Hours)
This course is nontransferable.
This course is an introduction to the fundamentals of conducting traffic stops with professionalism while maintaining the safety of all involved. The course covers the basics of unknown and high-risk traffic stops.

CJK 0402
Traffic Crash Investigations
(30 Contact Hours)
This course is nontransferable.
This course provides an overview of conducting traffic crash investigations using a systematic approach. The course describes how to respond to, assess, and protect the scene as well as documentation and returning the scene to normal conditions.

CJK 0403
DUI Traffic Stops
(24 Contact Hours)
This course is nontransferable.
This course provides an overview of detecting impaired driving, administering field sobriety tests, making arrests, and recording the evidence of a DUI offense.

CJK 0421
Conducted Electrical Weapon/Dart-Firing Stun Gun
(4 Contact Hours)
This course is nontransferable.
This course provides foundational knowledge of the operation of conducted electrical weapons (CEW), particularly dart-firing stun guns, as well as the effect on the human body.

CJL 1062
Constitutional Law ◆
(3 Credits – 3 Hours)
Prerequisite: CCJ 1020 with a grade of "C" or higher. A study of the U.S. Constitution and Bill of Rights. Major focus on current constitutional issues and the need/goal to ensure individual liberties while promoting public order and security. Special emphasis on constitutional rights of citizens, including the criminally accused, and the constitutional limits placed on police/government power.

CJL 1100
Criminal Law ◆
(3 Credits – 3 Hours)
Prerequisite: CCJ 1020 Introduction to Criminal Justice. This course describes the purpose of criminal law. Emphasis will be on Florida criminal law and statutory offenses to include crimes against persons and property. Concepts of constitutional law will be included, especially in terms of court decisions and their impact on criminal procedures in Florida.

CJL 1102
Criminal Evidence and Court Procedure
(3 Credits – 3 Hours)
An examination of the rules governing admissibility of evidence, specifically as they affect he law enforcement officer in the processes of arrest, use of force, search and seizure, presentation and custody of evidence, testimony and court procedure.

DSC 1006
Introduction to Homeland Security ◆
(3 Credits – 3 Hours)
A study of the new paradigm of Homeland Security for first responder practitioners. The course will cover the 911 event, lessons learned and the different disciplines of law enforcement, fire rescue, emergency management, and health.

PLA 1003
Introduction to Paralegal Studies
(3 credits - 3 hours)
This course provides a foundation for the paralegal career and introduces the student to the state and federal legal systems, the legal profession, and the role of the paralegal. The course includes discussions related to legal terminology, research techniques, and professional responsibility.

PLA1104
Legal Research and Writing I
(3 credits - 3 hours)
Prerequisite: ENC 1101. This course introduces the student to the legal research process and the preparation of various legal documents. This Includes legal citations and the analysis of statutory and case law.

PLA 1303
Criminal Law and Procedure
(3 credits - 3 hours)
Prerequisite: PLA 1104. This course provides an overview of substantive criminal law and the procedures of the criminal justice system. This includes the analysis of the elements of a crime, U.S. Constitutional Law, and the judicial process.

PLA 1421
Contract Law
(3 credits - 3 hours)
Prerequisite: BUL 1241 or PLA 1003. An introductory course designed to provide students with an understanding of contract law, including contract formation, breach and enforcement, remedies, third party claims, and the Uniform Commercial Code.

PLA 2114
Legal Research and Writing II
(4 credits - 4 hours)
Prerequisite: PLA 1104. This course is a continuation of Legal Research and Writing I (PLA 1104) and emphasizes problem analysis, legal research, and writing techniques. In addition to drafting legal documents, students will present the results of research on legal topics.

PLA 2200
Litigation
(3 credits - 3 hours}
Prerequisite: PLA 1003. This course covers criminal and civil litigation processes, including federal and state rules; document filings; pre-trial, trial, and post-trial procedures.

PLA 2273
Tort Law
(3 credits - 3 hours)
This course covers the principles of tort law, including causes of action, legal defenses, and litigation practices.

PLA 2465
Debtor/Creditor Law
(3 credits - 3 hours}
The purpose of this course is to provide the student with an understanding of debtor and creditor rights, debt collection, and bankruptcy.

PLA 2600
Wills, Trusts, and Estates
(3 credit - 3 hours)
An introductory course designed to familiarize students with the preparation of wills and trusts, estate planning, and probate administration.

PLA 2610
Real Estate Law
(3 credits - 3 hours)
The course provides an overview of real property law and includes the

preparation and drafting of documents related to real property transactions.

PLA 2763
Law Office Management
(3 credits - 3 hours)
Prerequisite: PLA 1003. This course covers topics related to law office operations, such as records management, accounting methods, billing, case management, and ethical considerations.

PLA 2800
Family Law
(3 credits - 3 hours)
This course provides an overview of family law practice and covers marriage, divorce, child custody and support, paternity, adoption, and guardianship.

PLA 2880
Constitutional Law
(3 hours - 3 credits)
This course is designed to provide students with an understanding of the articles of the U.S. Constitution and amendments; the branches of government; constitutional interpretation; the role of the U.S. Supreme Court; substantive and procedural due process; equal protection; and individual rights.

DEVELOPMENTAL EDUCATION

All college preparatory courses are nontransferable.

ENC 0017C
Developmental Reading and Writing Combined
(4 Developmental Education Credits - 4 Hours)
This course integrates reading and writing in a format that will prepare students to write purposeful, well-organized, and well-supported clear paragraphs and essays in which grammar, usage, and mechanics conform to the conventions of standard written English. Students will read and learn to build vocabulary in context; develop literal, critical, and analytical reading and writing skills; identify and write clear main ideas and support main ideas with examples and details; recognize and write using appropriate organizational patterns and relationships; detect author's purpose, tone, and bias; distinguish between facts and opinions; make inferences and draw conclusions; and recognize and write valid arguments.

ENC 0027C
Fundamental Reading and Writing Combined
(3 Developmental Education Credits - 3 Hours)
This course is designed to satisfy the requirements of mid-level developmental reading and writing in a modular format. The student scoring within a specific range on the Postsecondary Education Readiness Test (P.E.R.T.) or other placement test is administered a diagnostic test to identify skills to prepare an individualized learning plan so that the student works only on skills not yet mastered.

ENC 0056C
Integrated Reading and Writing Combined
(2 Developmental Education Credits - 2 Hours)
This course is designed to satisfy the requirements of upper-level developmental reading and writing in a modular format. The student scoring within a specific range on the Postsecondary Education Readiness Test (P.E.R.T.) or other placement test is administered a diagnostic test to identify skills to prepare an individualized learning plan so that the student works only on skills not yet mastered.

MAT 0022
Developmental Mathematics Combined
(4 Developmental Education Credits - 4 Hours)
This is a course designed to improve mathematical skills needed to be successful in the first college level mathematics course. Topics include arithmetic, linear equations, proportions, geometry, graphing, exponents, polynomials, and factoring.

MAT 0055
Developmental Mathematics Module (1.0 Credit)
(1 Developmental Education Credit – 1 Hour)
This is a module designed for students who need minimal review before completing a college level mathematics course. Topics include fractions, exponents, and factoring.

MAT 0056
Developmental Mathematics Module (2.0 Credits)
(2 Developmental Education Credits – 2 Hours)
This is a module designed for students who need substantial review before taking a college level mathematics course. Topics include fractions, linear equations, graphing, exponents, polynomials, and factoring.

EDUCATION

Statewide, effective Fall 2017, there is one common prerequisite course for students who plan to transfer to a state university or state college within Florida to pursue a bachelor's degree in Education. This course is EDF 2005, Introduction to the Teaching Profession. This is the only prerequisite course required for SJR State's bachelor's degree in Early Childhood Education. Other universities and colleges may have additional courses that are baccalaureate graduation requirements such as EDF 2085 and EME 2040, that could be taken at SJR State as part of the Associate in Arts degree. If you plan to transfer to a university after your AA for your baccalaureate degree in education, please consult the department at the university where you plan to transfer to see if these courses are **required** for graduation. These courses are excellent electives for **all** students planning to pursue a career as an educator.

EDF 2005
Introduction to the Teaching Profession ◆
(3 Credits - 3 Hours)
Prerequisite: Completion of ENC 1101 with a grade of "C" or higher; school board background check clearance. EDF 2005 is a prerequisite for students who plan to transfer to a State University System College of Education to pursue a bachelor's degree in education. This is an introductory course in American education designed to provide basic information for all who work with school students. Major areas include: historical, sociological, legal, and philosophical foundations of present day education. Students enrolled in this course will be required to complete eighteen (18) hour field experience/observation in a K-12 classroom setting and a 4-hour online General Knowledge test prep video course. Students enrolling in EDF 2005 must be cleared by a school board background check before the end of the add-drop period.

Note: Information about background check location, dates, and fee will be sent by The Office of Teacher Education to SJR State student email to students who register for EDF 2005. Additionally, students not registered may contact the Office of Teacher Education directly for detailed information. The required field experience in school settings from K to 12th grade provides prospective education majors with the understanding of the expectations and responsibilities of public school teachers. This course requires eighteen (18) hours of field experience/observation in a K-12 classroom setting. Students will be assigned to a classroom setting designated by the Office of Teacher Education in the district of their choice within the college's service area. The field experience is completed outside of the scheduled class meeting time.

CHD 1220
Child Development for Teachers of Young Children ◆
(3 Credits - 3 Hours)
This course defines developmental patterns of the child. Students will learn to provide for and support the physical, social, and emotional growth of children, infancy through school age. The importance of positive relationships with families will be examined. This course will also provide opportunities for supervised participation in various child care and education settings. Students interested in working with infants, toddlers, preschool, and school age children as teachers, teacher aides, or parents will have an opportunity to develop and implement developmentally appropriate practices in various

child care and education settings. Appropriate professional practices and effective program management strategies will be discussed. This course is one of the three required to earn the Florida Child Care Professional Credential and requires 25 hours field work.

EDF 2085
Introduction to Diversity for Educators ◆
(3 Credits - 3 Hours)
A course designed to study multicultural education. Emphasis is on the dimensions of diversity, including culture, ethnicity, race, language, social class, exceptionality, gender, age, and sexual orientation.

EDP 2002
Educational Psychology ◆
(3 Credits - 3 Hours)
An introduction to the psychological principles of learning and the application of these principles in effective teaching. Course content includes the psychology of teaching and learning, learner behavior, growth and maturation, psychological concepts of learning, and cognitive and affective factors in learning.

EEC 1001
Introduction to Early Childhood Education ◆
(3 Credits - 3 Hours)
This course introduces basic principles and practices involved in guiding the young child. The course includes the history and objectives of early childhood programs, child care issues, center licensing standards, and classroom management. This course introduces students to techniques for observing and recording the behavior of young children. The content areas of physical skills, learning environment, and language development will be the focus for developing observing and recording strategies. Appropriate professional practices and effective program management strategies will be discussed. This course is one of the three required to earn the Florida Child Care Professional Credential and requires 25 hours field work.

EEC 2401
Home and Community ◆
(3 Credits - 3 Hours)
This course is designed to help the student understand the roles and interrelationships of early childhood programs, families, and the community as components of teams working together to support the development of the young child. This course is one part of a core curriculum designed to provide students with an understanding of child development and education, and how to work with parents and community resources to provide developmentally appropriate programs for young children and their families. Appropriate professional practices and effective program management strategies will be discussed. This course is one of the three required to earn the Florida Child Care Professional Credential and requires 30 hours field work.

EEC 2523
Child Care Center Management ◆
(3 Credits - 3 Hours)
The purpose of the course is to prepare students to perform as child care center directors. The course is intended to meet the educational requirement for the Foundation Level Child Care and Education Administrator credential as defined by the State of Florida. Specific information and opportunities for skill development to assist child care administrators will be explored. Students will develop the knowledge, skills and abilities for planning, implementing, and evaluating a quality child care and education courses. Four content areas will be covered in this course: organizational leadership, personnel issues, financial and legal issues, and child care and education programming. Practical application exercises will be utilized to demonstrate student's knowledge and understanding of the content area competencies.

EME 2040
Introduction to Technology for Educators ◆
(3 Credits - 3 Hours)
An introduction to the classroom applications of educational technologies. Topics include multimedia, interactive media, ethics and legal issues, and the internet. Students will work in class on computers and should either have a computer available outside of the classroom or plan to use computers available in the computer laboratories to complete assignments.

EDUCATOR PREPARATION INSTITUTE

The EPI courses are nontransferable.

EPI 0001
Classroom Management
(3 Institutional Credits - 3 Hours)
This course teaches how to maintain a classroom. Topics will include: record keeping, classroom management, school safety, Florida Standards in curriculum, development of lesson plans, parent conferences, assessment techniques, implications of Florida Standards Assessment (FSA) and other standardized tests, professional ethics, and school law and the teacher.

EPI 0002
Instructional Strategies
(3 Institutional Credits - 3 Hours)
This course teaches the participant to become proficient in the application of a variety of instructional strategies based on learning styles, cooperative and collaborative learning, accommodations for exceptional students, and the infusion of technology into lesson plans.

EPI 0003
Technology
(3 Institutional Credits - 3 Hours)
This course teaches the participant to employ technology as an integral part of the teaching and learning process. Instruction is provided in commonly used software suites and on the internet. This course requires a 10 hour online field experience in a virtual classroom setting.

EPI 0004
The Teaching and Learning Process
(3 Institutional Credits - 3 Hours)
This course teaches a foundation in various learning theories as applied in the instructional process. Topics will include learning theories, motivation and persistence, intelligence, exceptionalities, standardized testing, critical thinking, multiple intelligences, and second language acquisition.

EPI 0010
Foundations of Research - Based Practices in Reading I
(3 Institutional Credits - 3 Hours)
This course teaches language structure and function and cognition of phonemic awareness, phonics, fluency, vocabulary, and comprehension. This instruction is grounded in scientifically-based research. Successful completion of this course will signify completion of Competencies I and II of the Florida Reading Endorsement.

EPI 0011
Foundations of Research - Based Practices in Reading II
(3 Institutional Credits - 3 Hours)
Prerequisite: EPI 0010. This course provides diagnostic and instructional interventions in Reading through formal and informal methods and materials used to identify reading strengths and weaknesses of students. Emphasis is placed on diagnosis of reading problems, administration of assessments, evaluation of results, and planning instructional interventions to remediate reading deficiencies in phonemic awareness, phonics, fluency, vocabulary, and comprehension. This instruction is grounded in scientifically-based research. Successful completion of this course will signify completion of Competencies III and IV of the Florida Reading Endorsement.

EPI 0012
Foundations of Research - Based Practices in Reading III
(1 Institutional Credit - 1 Hour)
Prerequisites: EPI 0010 and EPI 0011. This course ensures teachers demonstrate knowledge of the components of reading, as well as assessments and data analysis. Instruction is grounded in scientifically-based reading research as a mechanism to inform instructional practice. Demonstration and evidence of the application of the knowledge and skills to improve instructional practice and student learning are course requirements. This course requires fifteen (15) hours of field experience/observation in a classroom setting designated by the Office of Teacher Education. Teacher candidates will work directly with students in the public schools in large group, small group, and individual settings to connect all aspects of literacy instruction. This course provides the state of Florida reading endorsement competency 5.

EPI 0020
Professional Foundations
(2 Institutional Credits - 2 Hours)
This course provides the foundation for becoming a productive member of the teaching profession. The participants will gain understanding of the organization and administration of the accredited public school, the laws governing teachers, the Code of Ethics, and the purpose of schools. This course develops a professional perspective and creates a sense of grounding in the profession of teaching. A professional portfolio will be compiled and submitted in this course.

EPI 0030
Diversity
(2 Institutional Credits - 2 Hours)
Corequisite: EPI 0945. This course provides the participant with an understanding of the variety of backgrounds and cultures that may be found in a typical classroom.

EPI 0940
Field Experience for Professional Foundations
(1 Institutional Credit - 1 Hour)
Participants will complete sixty (60) hours of field experience in accredited public, charter, or private schools. These field experiences will provide the opportunity to gain insight into the instructional process. Using a series of prescribed observation tasks, each participant will develop a reflective journal detailing their experience. Those participants who are currently teaching will be required to complete the same series of observational field experience in the schools where they are assigned. Note: Students enrolling in EPI 0940 must be cleared by a school board background check before the end of the add-drop period. Field exposure in school settings from K-12th grade provides students enrolled in this program with the understanding of the expectations and responsibilities of public school teachers. This course requires sixty (60) hours of field experience/observation in a classroom setting designated by the Office of Teacher Education in the district of the student's choice within the college's service area. The field experience is completed outside of the scheduled class meeting time.

EPI 0945
Field Experience for Diversity
(1 Institutional Credit - 1 Hour)
Corequisite: EPI 0030. Participants will complete a series of experiences designed to give prospective teachers a perspective on the varied backgrounds of students in public, charter, or accredited private schools.

ENGINEERING TECHNOLOGY

EET 1084C
Introduction to Electricity and Electronics
(3 Credits – 4 Hours)
This course covers the basics of DC and AC electricity including atomic structure, Ohm's Law, resistance, capacitance and inductance for series, parallel, and mixed circuits. Circuit components, circuit diagrams, and circuit building are included in the hands-on lab as well as measuring voltage, current, resistance and capacitance with a multimeter. Different switches, transformers, relays and diodes are introduced.

EGN 1111
Engineering Graphics
(3 Credits – 3 Hours)
Students in this course will learn geometric construction, multiview projection, sectional views, auxiliary views, dimensioning, and 3D modeling using AutoCAD.

ETI 1060
Mathematical Applications in Engineering Technology
(3 Credits – 3 Hours)
This course provides students with a foundation of knowledge based on an essential set of applied mathematical tools to be successful in the manufacturing industry. Topics include basic math concepts to address common technical problems encountered in a manufacturing environment; the ability to convert between U.S. and metric measurement systems, and the use of a variety of measurement tools. In addition, students will understand the use of proportions for calculating the speed of gears and pulleys, basic trigonometry, solving for variables in a formula and calculating horsepower.

ETI 1110
Introduction to Quality Assurance
(3 Credits – 3 Hours)
This course provides a survey of the skills that are necessary to ensure that the production and manufacturing systems meet quality requirements as defined by businesses and customers. Students are introduced to the tools and techniques utilized to measure, maintain, and continuously improve quality to ensure that products and processes meet the quality standards required in the advanced manufacturing environment. Different theories of quality as well as the effect of globalization are covered in this course.

ETI 1420C
Manufacturing Processes & Materials
(3 Credits – 4 Hours)
This course covers the characteristics, fundamentals, and manufacturing properties of materials, including metal alloys, polymers, ceramics, and composites. The metal casting processes and the shaping and forming processes are also covered along with the machines needed for manufacturing. The effects of stress, strain, and temperature due to the formation of materials are covered in theory and in the laboratory. Manufacturing process costs are covered as well.

ETI 1622
Concepts of Lean and Six Sigma
(3 Credits – 3 Hours)
This course examines the quality management principles of the Lean Manufacturing and Six Sigma theories of continuous improvement. Lean Manufacturing involves identifying and eliminating nonvalue adding activities in design, production, and supply chain management. Topics covered include continuous flow, kaizen, the 5 S's and value-stream mapping. Six Sigma is a statistical problem-solving method that concentrates on measurement methods, data collection and graphical methods of presenting findings to control and improve processes.

ETI 1701
Industrial Safety
(3 Credits – 3 Hours)
This course is a study of job related safety. Topics include occupational safety and health administration (OSHA) compliance, safety standards, and code enforcement.

ETI 1843C
Motors and Controls
(3 Credits – 4 Hours)
Prerequisite: EET 1084C with a grade of "C" or higher. This course explores the

theory and application of AC and DC motors. It covers how different types of motors operate and how electronic motor control systems are designed and can be used to improve efficiency in a wide range of manufacturing applications.

ETI 1949
Manufacturing Special Topics
(3 Credits – 3 Hours)
Prerequisite: Permission of the Director. Practical application in a clinical setting of knowledge acquired in the classroom. Hours may vary.

ETM 1010C
Mechanical Measurement and Instrumentation
(3 Credits – 4 Hours)
This course provides the basic foundation for mechanical and electronic measurement techniques used in metrology. The course will integrate the concepts, principles, and techniques of mechanical measurement with the use of various types of measuring instruments including micrometers, calipers, gauges, and other instruments. This course exposes students to practical mechanical and electronic measurement tools and techniques encountered in the manufacturing environment.

ETM 2315C
Hydraulics and Pneumatics
(3 Credits – 4 Hours)
This course treats principles of fluid and airflow, the basic components of hydraulic and pneumatic systems and how they are combined and function in instrumentation. Experience will include demonstration and setting up various hydraulic and pneumatic circuits and how they respond to pressure, heat, flow and restriction.

ETS 1535C
Automated Process Control
(3 Credits – 4 Hours)
Prerequisite: ETS 1542C with a grade of "C" or higher. This course introduces the modern approach to control theory and the ideas of controllability. Proportional-Integral-Derivative control theory with the use of sensors, actuators, and programmable logic controllers (PLC) are investigated. Students will be introduced to modern engineering level PLC control systems used in industry and the elements that compromise a closed-loop process.

ETS 1542C
Introduction to Programmable Logic Controllers
(3 Credits – 4 Hours)
This first course in programmable logic controllers (PLC), is designed for students preparing for careers in electronics, manufacturing, electrical or industrial technology. Students learn the basic operational concepts common to PLCs, focusing on PLC principles, programming, numbering systems, data manipulation, math, and sequencer instructions.

ETS 1603C
Fundamentals of Robotics
(3 Credits – 4 Hours)
An introductory course designed to familiarize students with the basic principles of robotics and simulation. This course includes basic robotics concepts, operation, classification, and applications. It provides a framework for the discussion of artificial intelligence. This course also includes basic principles of modeling and simulation as applied in different environments and systems. Students will become familiar with simulation and robotic systems.

ETS 2527C
Electromechanical Components and Mechanisms
(3 Credits – 4 Hours)
This course covers gears and gearboxes, belts and pulleys, chains and sprockets, alignments and measures found in the industrial environment.

ETS 2544C
Programmable Logic Controllers II
(3 Credits – 4 Hours)
Prerequisite: ETS 1542C with a grade of "C" or higher. This course is a continuation of ETS 1542C for students who are familiar with basic PLC operations and concepts. Students learn the skills required to troubleshoot and maintain logic controllers in a simulated industrial environment. Topics covered include program control instructions, data manipulation instruction, math instructions, acquisition, computer controlled machines and processes.

ETS 2604C
Robotics Applications
(3 Credits – 4 Hours)
Prerequisite: ETS 1603C with a grade of "C" or higher. This course is designed to introduce the student to the basic principles of robots including classification, operation, maintenance, troubleshooting, and applications in the robotics industry. Students will use hands-on practices to become familiar with sections of a robotic system.

FOREIGN LANGUAGE

ASL 1140
American Sign Language I ◆
(4 Credits - 4 Hours)
This course is an introduction to the basic skills in the production and comprehension of American Sign Language (ASL). This course includes the manual alphabet and numbers, and exposes students to ASL grammar. The course helps students to develop conversational ability, as well as culturally appropriate behaviors.

ASL 1150
American Sign Language II ◆
(4 Credits - 4 Hours)
Prerequisite: ASL 1140 with a grade of "C" or higher. This course is a continuation of ASL 1140 and will develop receptive and expressive abilities and allow recognition and demonstration of more sophisticated grammatical features of American Sign Language. Students will increase fluency and accuracy in fingerspelling and numbers. There will be opportunities for interaction within the Deaf Community.

SPN 1120
Foundations of Spanish I ◆
(4 Credits - 4 Hours)
An introduction to the Spanish language for those who have little or no knowledge of Spanish. The sequence of SPN 1120/1121 presents the essential elements of Spanish grammar, vocabulary, and culture that are needed in everyday life to speak in Spanish and understand it when it is spoken at a moderate speed by sympathetic native speakers. This course includes many types of activities designed to develop basic skills in speaking, listening comprehension, reading, and writing, with the greatest emphasis placed on practicing conversation. Communicative competence is stressed. Students learn present tense conjugation (including irregular and stem-changing verbs), conjugation of reflexive verbs, and the informal future. The class is conducted mostly in Spanish.

SPN 1121
Foundations of Spanish II ◆
(4 Credits - 4 Hours)
This course is a continuation of SPN 1120. Prerequisite: SPN 1120 with a grade of "C" or higher. This course includes many types of activities designed to further expand the students' communicative proficiency in speaking, listening comprehension, reading, and writing, with the greatest emphasis placed on practicing conversation. Communicative competence is stressed. Students solidify and strengthen their grasp and use of regular and irregular present tense conjugations, reflexive verbs, and the informal future. They learn the present progressive tense, the use and conjugation of regular and irregular verbs in the preterit tense, the imperfect tense, in the

preterit versus the imperfect tense, indirect object pronouns, double object pronouns, gustar and similar verbs. Students are also introduced to the present tense, the impersonal se, and/or commands. The class is conducted mostly in Spanish.

HEALTH AND PHYSICAL EDUCATION

PHYSICAL EDUCATION COURSES will apply toward the A.A. degree requirements if applicable for physical education majors unless otherwise noted.

PEL 1211
Softball I
(1 Credit - 2 Hours)
Specialized instruction with emphasis given to fundamental skills.

PEL 1216
Baseball I
(1 Credit - 2 Hours)
Specialized instruction with emphasis given to fundamental skills.

PEL 1321
Volleyball I
(1 Credit - 2 Hours)
Specialized instruction with emphasis given to fundamental skills.

PEL 2212
Softball II
(1 Credit - 2 Hours)
Specialized instruction with emphasis on technique and strategy used in play.

PEL 2214
Softball III
(1 Credit - 2 Hours)
This course requires advanced skills and athletic ability and focuses on learning to compete at the collegiate level. This course is geared towards teamwork practices, advanced game strategy, and knowledge of the NJCAA rules.

PEL 2217
Baseball II
(1 Credit - 2 Hours)
Specialized instruction with emphasis on technique and strategy used in play.

PEL 2219
Baseball III
(1 Credit - 2 Hours)
This course requires advanced skills and athletic ability and focuses on learning to compete at the collegiate level. This course is geared towards teamwork practices, advanced game strategy, and knowledge of the NJCAA rules.

PEL 2322
Volleyball II
(1 Credit - 2 Hours)
Specialized instruction with emphasis on technique and strategy used in play.

PEL 2324
Volleyball III
(1 Credit - 2 Hours)
This course requires advanced skills and athletic ability and focuses on learning to compete at the collegiate level. This course is geared towards teamwork practices, advanced game strategy, and knowledge of the NJCAA rules.

PEM 1102
Health Analysis and Body Conditioning
(3 Credits - 3 Hours)
A course designed to analyze and evaluate certain health factors on a personalized basis to provide a personal health profile. The profile will be used to develop and carry out an aerobic and isotonic conditioning program of activities leading to maximized health benefits.

PEM 1104
Concepts of Life Fitness
(1 Credit - 3 Hours)
A continuation of the program established in PEM 1102 with emphasis on changing lifestyle patterns consistent with fitness, health, and well-being. May be repeated three times for credit.

PEM 2131
Weight Training
(1 Credit - 3 Hours)
A course designed to provide basic instruction in the methods of isotonic exercise as related to fitness and health. May be repeated three times for credit.

PET 2622
Care and Prevention of Athletic Injuries ◆
(3 Credits - 3 Hours)
This introductory course explores the techniques of effectively preventing and managing athletic-related injuries. The course is designed to explore principles related to the prevention, treatment, rehabilitation and proper care of athletes and athletic injuries. The course includes recognition, care, use of treatment modalities and techniques for taping and stabilizing injuries.

SPM 2000
Introduction to Sport Management ◆
(3 Credits – 3 Hours)
This course is designed to provide the student with a conceptual understanding of sport management. Areas that receive special emphasis are managerial, financial, legal, and ethical principles, the professional sport industry, intercollegiate and interscholastic sport, youth and community sport, event/facility management, sport sales, marketing and sponsorships, sport communication, the recreation and fitness industries and career preparation.

HUMANITIES

ARH 1000
Art Appreciation ◆
(3 Credits - 3 Hours)
In this course, students will develop the ability to think critically about human culture and be provided with the tools to understand, analyze, and discuss works of visual art and material culture. ARH 1000 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

ARH 2050
Art History I ◆
(3 Credits - 3 Hours)
A study of the main developments of the visual art forms (architecture, sculpture and painting) from Paleolithic man through the Renaissance. ARH 2050 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

ARH 2050
Honors Art History I ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program. A study of the main developments of the visual art forms (architecture, sculpture and painting) from Paleolithic man through the Renaissance. ARH 2050 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030. This course involves significant reading, writing, discussion, challenge problems and/or

student participation.

ARH 2051
Art History II ◆
(3 Credits - 3 Hours)
An integrated study of the main developments of the visual art forms (architecture, sculpture and painting) from the 17th century to the present. ARH 2051 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

ARH 2051
Honors Art History II ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program. An integrated study of the main developments of the visual art forms (architecture, sculpture and painting) from the 17th century to the present. ARH 2051 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030. This course involves significant reading, writing, discussion, challenge problems and/or student participation.

DAN 2100
Survey of Dance ◆
(3 Credits - 3 Hours)
This course is designed as an introduction into the multicultural world of dance. It will include information on history, cultures and performance aspects of dance as an art form. DAN 2100 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

HUM 2020
Introduction to Humanities ◆
(3 Credits - 3 Hours)
Prerequisite: ENC 1101 with a grade of "C" or higher. In this course, students will learn about the creative ideas and accomplishments of various cultures in various fields of humanities that may include art, architecture, drama, history, music, literature, philosophy, and religion. The course will include cultural expressions from the Western canon and may also include expressions from around the globe. HUM 2020 is a Gordon Rule writing course as designed by SBE Rule 6A-10.030.

HUM 2020
Honors Introduction to Humanities ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program and ENC 1101 with a grade of "C" or higher. In this course, students will learn about the creative ideas and accomplishments of various cultures in various fields of humanities that may include art, architecture, drama, history, music, literature, philosophy, and religion. The course will include cultural expressions from the Western canon and may also include expressions from around the globe. HUM 2020 is a Gordon Rule writing course as designed by SBE Rule 6A-10.030. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

HUM 2220
Greek and Roman Humanities ◆
(3 Credits - 3 Hours)
Prerequisite: ENC 1101 with a grade of "C" or higher. An integrated examination of dominant ideas in Western culture as expressed in art, literature, music, philosophy, and religion, HUM 2220 covers the period from the Aegean Civilizations through the Roman era, emphasizing the development and influence of classical idea. HUM 2220 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

HUM 2220
Honors Greek and Roman Humanities ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program and ENC 1101 with a grade of "C" or higher. An integrated examination of dominant ideas in Western culture as expressed in art, literature, music, philosophy, and religion HUM 2220 covers the period from the Aegean Civilizations through the Roman era, emphasizing the development and influence of classical ideas. HUM 2220 is a Gordon Rule writing course as designed by SBE Rule 6A-10.030. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

HUM 2223
Late Roman and Medieval Humanities ◆
(3 Credits - 3 Hours)
Prerequisite: ENC 1101 with a grade of "C" or higher. An integrated examination of dominant ideas in Western culture as expressed in art, literature, music, philosophy, and religion, HUM 2223 covers the period from the Late Roman Empire through the Middle Ages, emphasizing the development and historical influence of Christianity. HUM 2223 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

HUM 2223
Honors Late Roman and Medieval Humanities ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program and ENC 1101 with a grade of "C" or higher. An integrated examination of dominant ideas in Western culture expressed in art, literature, music, philosophy, and religion, HUM 2223 covers the period from the Late Roman Empire through the Middle Ages, emphasizing the development and historical influence of Christianity. HUM 2223 is a Gordon Rule writing course as designed by SBE Rule 6A-10.030. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

HUM 2232
Renaissance and Baroque Humanities ◆
(3 Credits - 3 Hours)
Prerequisite: ENC 1101 with a grade of "C" or higher. An integrated examination of dominant ideas in Western culture as expressed in art, literature, music, philosophy, and religion, HUM 2232 covers the period from the Renaissance time period through the Baroque, emphasizing the development and historical influence of these periods. HUM 2232 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

HUM 2232
Honors Renaissance and Baroque Humanities ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program and ENC 1101 with a grade of "C" or higher. An integrated examination of dominant ideas in Western culture expressed in art, literature, music, philosophy and religion, HUM 2232 covers the period from the Renaissance time period through the Baroque, emphasizing the development and historical influences of these periods. HUM 2232 is a Gordon Rule writing course as designed by SBE Rule 6A-10.030. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

HUM 2234
Enlightenment and Romanticism Humanities ◆
(3 Credits - 3 Hours)
Prerequisite: ENC 1101 with a grade of "C" or higher. An integrated examination of dominant ideas in Western culture as expressed in art, literature, music, philosophy, and religion, HUM 2234 covers the period from the Enlightenment through the 19th century, emphasizing the emergence of rationalism and modern science and the Romantic rebellion. HUM 2234 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

HUM 2234
Honors Enlightenment and Romanticism Humanities ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program and ENC 1101 with a grade of "C" or higher. An integrated examination of dominant ideas in Western culture expressed in art, literature, music, philosophy, and religion, HUM 2234 covers the period from the Enlightenment through the 19th century, emphasizing the emergence of rationalism and modern science and the Romantic rebellion. HUM 2234 is a Gordon Rule writing course as designed

by SBE Rule 6A-10.030. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

HUM 2250
20th Century Humanities ◆
(3 Credits - 3 Hours)
Prerequisite: ENC 1101 with a grade of "C" or higher. An integrated examination of dominant ideas in Western culture as expressed in art, literature, music, philosophy, and religion, HUM 2250 covers the period from the turn of the 20th century to the present. The course focuses on creative forces which have shaped contemporary consciousness from the pioneering work of Einstein, Picasso, Stravinsky, and Wright through the dominance of objective consciousness to newly emerging guiding myths of today. HUM 2250 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

HUM 2250
Honors 20th Century Humanities ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program and ENC 1101 with a grade of "C" or higher. An integrated examination of the dominant ideas in Western culture expressed in art, literature, music, philosophy, and religion HUM 2250 covers the period from the turn of 20th century to the present. The course focuses on creative forces which have shaped contemporary consciousness from the pioneering work of Einstein, Picasso, Stravinsky, and Wright through the dominance of objective consciousness to newly emerging guiding myths of today. HUM 2250 is a Gordon Rule writing course as designed by SBE Rule 6A-10.030. This course requires significant reading, writing, discussion, challenge problems, and/or student participation.

HUM 2310
Mythology in Art, Literature, and Music ◆
(3 Credits - 3 Hours)
Prerequisite: Satisfactory completion of ENC 1102 with a grade of "C" or higher. An introduction to mythology and an examination of its continued influence to the present. Major emphasis is placed on Classical mythology, though attention will be given to other mythologies of Western and non-Western cultures as well. HUM 2310 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

HUM 2310
Honors Mythology in Art, Literature, and Music ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program and satisfactory completion of ENC 1102 with a grade of "C" or higher. An introduction to mythology and an examination of its continued influence to the present. Major emphasis is placed on Classical mythology, though attention will be given to other mythologies of Western and non-Western cultures as well. HUM 2310 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

MUH 2110
Songs for the Dead:
An Introduction to Music History and Literature ◆
(3 Credits - 3 Hours)
This is a survey course in music history and literature from the Middle Ages to the present. There will be an emphasis placed on the development of musical forms and performing mediums as they relate to western art music used for memorialization, representation, and remembrance of the dead and death through the ages. MUH 2110 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

MUH 2112
Music History ◆
(3 Credits - 3 Hours)
A study of musical expression in relation to the background of the life and art which created it. Emphasis is placed on music in Western Civilization from the 17th century to the present. MUH 2112 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

MUH 2112
Honors Music History ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program. A study of musical expression in relation to the background of the life and art which created it. Emphasis is placed on music in Western Civilization from the 17th Century to the present. MUH 2112 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

MUL 1010
Music Appreciation ◆
(3 Credits - 3 Hours)
In this course, students will survey the history of classical music from Antiquity to the modern period, focusing on Western music. The curriculum may also integrate a variety of popular and global styles where appropriate. MUL 1010 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

PHI 2010
Introduction to Philosophy ◆
(3 Credits - 3 Hours)
In this course, students will be introduced to the nature of philosophy, philosophical thinking, major intellectual movements in the history of philosophy, including topics from the Western philosophical tradition, and various problems in philosophy. Students will strengthen their intellectual skills, become more effective learners, and develop broad foundational knowledge. PHI 2010 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

PHI 2630
Contemporary Ethics ◆
(3 Credits - 3 Hours)
An examination of ethical topics with an emphasis on the development of a personally and philosophically meaningful ethical position on a variety of contemporary problems. Topics such as utilitarianism, egoism, situation ethics, freedom, social responsibility and relativism will be discussed and applied. PHI 2630 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

PHI 2630
Honors Contemporary Ethics ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program. An examination of ethical topics with an emphasis on the development of a personally and philosophically meaningful ethical position on a variety of contemporary problems. Topics such as utilitarianism, egoism, situation ethics, freedom, social responsibility and relativism will be discussed and applied. This course involves significant reading, writing, discussion, challenge problems, and/or student participation. PHI 2630H is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

REL 2210
Survey of the Old Testament ◆
(3 Credits - 3 Hours)
This course introduces the student to the study of the Old Testament and its history, geography, personalities, teachings, authority, and influence upon our culture.

REL 2240
Survey of the New Testament ◆
(3 Credits - 3 Hours)
This course introduces the student to the study of the New Testament and its history, geography, personalities, teachings, authority, and influence upon our culture.

REL 2300
World Religions ◆
(3 Credits - 3 Hours)
A course which introduces the student to the world's great religions by means of an objective examination of their origins and a study of their historical development. Religions include: Jainism, Buddhism, Confucianism, Taoism, Shintoism, Zoroastrianism, Judaism, Christianity, and Islam.

THE 1000
Theater Appreciation ◆
(3 Credits - 3 Hours)
In this course, students will explore dramatic structure, techniques, and various organizational elements. The course provides an introduction to theater as a collaborative art form through the critical analysis of its historical context, production, theory, and connections to theatrical literature, including the Western canon. THE 1000 is a Gordon Rule writing course as defined by SBE Rule 6A-10.030.

THE 1020
Introduction to Theater History ◆
(3 Credits - 3 Hours)
A survey of theater history in the western hemisphere from its origins in ancient Egypt and Greece to the present. Topics include major plays and playwrights, other influential theatrical personalities, theater architecture and types of stages, developments in technical theater, costuming and makeup, significant actors and acting techniques, theatrical styles. The relationship between theater and significant political and social events of the culture it represents is also examined. THE 1020 is a Gordon Rule writing course as designed by SBE Rule 6A-10.030.

MATHEMATICS

MAC 1105
College Algebra ◆
(3 Credits - 3 Hours)
Prerequisite: Completion of MAT 1033 with a grade of "C" or higher, or a satisfactory score on a placement test. In this course, students will develop problem solving skills, critical thinking, computational proficiency, and contextual fluency through the study of equations, functions, and their graphs. Emphasis will be placed on quadratic, exponential, and logarithmic functions. Topics will include solving equations and inequalities, definition and properties of a function, domain and range, transformations of graphs, operations on functions, composite and inverse functions, basic polynomial and rational functions, exponential and logarithmic functions, and applications.

MAC 1147
Precalculus ◆
(4 Credits - 4 Hours)
Prerequisite: Completion of MAC 1105 with a grade of "C" or higher, or a satisfactory score on a placement test. This course covers trigonometry and a review of the algebra skills needed for calculus. Trigonometry topics include functions, graphs, identities, equations, and their applications. Algebra topics include linear, quadratic, exponential, logarithmic, polynomial and rational functions and their applications.

MAC 1147
Honors Precalculus ◆
(4 Credits - 4 Hours)
Prerequisite: Admission to the SJR State Honors Program and completion of MAC 1105 with a grade of "C" or higher, or a satisfactory score on a placement test. This course covers trigonometry and a review of the algebra skills needed for calculus. Trigonometry topics include functions, graphs, identities, equations, and their applications. Algebra topics include linear, quadratic, exponential, logarithmic, polynomial and rational functions and their applications. This course involves significant reading, writing, discussion, challenge problems and/or student participation.

MAC 2233
Survey of Calculus ◆
(3 Credits - 3 Hours)
Prerequisite: Completion of MAC 1105 with a grade of "C" or higher, or a satisfactory score on a placement test. This is a survey course of elementary differential and integral calculus designed for business and social science students. Topics include functions, limits, derivatives, and integrals involving algebraic, exponential and logarithmic functions. Applications include marginal analysis, curve sketching, and optimization. This course cannot be used to satisfy degree requirements for students entering mathematics or engineering programs.

MAC 2311
Analytic Geometry and Calculus I ◆
(4 Credits - 4 Hours)
Prerequisite: Completion of MAC 1147 with a grade of "C" or higher, or a satisfactory score on a placement test. In this course, students will develop problem solving skills, critical thinking, computational proficiency, and contextual fluency through the study of limits, derivatives, and definite and indefinite integrals of functions of one variable, including algebraic, exponential, logarithmic, and trigonometric functions, and applications. Topics will include limits, continuity, differentiation and rates of change, optimization, curve sketching, and introduction to integration and area.

MAC 2311
Honors Analytic Geometry and Calculus I ◆
(4 Credits - 4 Hours)
Prerequisite: Admission to the SJR State Honors Program and completion of MAC 1147 with a grade of "C" or higher or a satisfactory score on a placement test. In this course, students will develop problem solving skills, critical thinking, computational proficiency, and contextual fluency through the study of limits, derivatives, and definite and indefinite integrals of functions of one variable, including algebraic, exponential, logarithmic, and trigonometric functions, and applications. Topics will include limits, continuity, differentiation and rates of change, optimization, curve sketching, and introduction to integration and area. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

MAC 2312
Analytic Geometry and Calculus II ◆
(4 Credits - 4 Hours)
Prerequisite: Completion of MAC 2311 with a grade of "C" or higher. Topics include applications of integration, techniques of integration, infinite series, and parametric and polar equations.

MAC 2312
Honors Analytic Geometry and Calculus II ◆
(4 Credits - 4 Hours)
Prerequisite: Admission to the SJR State Honors Program and completion of MAC 2311 with a grade of "C" or higher. Topics include applications of integration, techniques of integration, infinite series, and parametric and polar equations. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

MAC 2313
Analytic Geometry and Calculus III ◆
(4 Credits - 4 Hours)
Prerequisite: Completion of MAC 2312 with a grade of "C" or higher. Topics include vectors and solid analytic geometry, vector-valued functions, partial differentiation, multiple integrals, and vector analysis.

MAC 2313
Honors Analytic Geometry and Calculus III ◆
(4 Credits - 4 Hours)
Prerequisite: Admission to the SJR State Honors Program and completion of MAC 2312 with a grade of "C" or higher. Topics include vectors and solid analytic geometry, vector-valued functions, partial differentiation, multiple

integrals, and vector analysis. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

MAP 2302
Elementary Differential Equations ◆
(3 Credits - 3 Hours)
Prerequisite: Completion of MAC 2312 with a grade of "C" or higher. This is a first course in ordinary differential equations and includes first and second order differential equations and their applications. Major topics are separable equations, first and second order linear equations, and Laplace transform methods. Applications include mixtures, population models, acceleration - velocity models, and mechanical systems. The course may also include series solutions, systems of differential equations, and numerical methods.

MAT 1033
Intermediate Algebra ◆
(3 Credits - 3 Hours)
Prerequisite: College-ready status, a satisfactory score on a placement test or completion of developmental mathematics with a grade of "C" or higher or enrollment in a corequisite developmental education course as applicable. Topics include factoring, rational expressions and equations, radicals and rational exponents, complex numbers, quadratic equations, linear equations and inequalities in two variables and their graphs, systems of linear equations and inequalities, and an introduction to functions.

MGF 1106
Mathematics for Liberal Arts I ◆
(3 Credits - 3 Hours)
This is a general education mathematics course. Topics include sets, logic, geometry, counting and probability, and statistics.

MGF 1107
Mathematics for Liberal Arts II ◆
(3 Credits - 3 Hours)
This is a general education mathematics course. Topics will be selected from numeration systems, number theory, algebra, linear programming, financial mathematics, graph theory, voting, and apportionment.

MGF 1130
Mathematical Thinking ◆
(3 Credits - 3 Hours)
In this course, students will utilize multiple means of problem solving through student- centered mathematical exploration. The course is designed to teach students to think more effectively and vastly increase their problem-solving ability through practical application and divergent thinking. This course is appropriate for students in a wide range of disciplines/programs. Topics include problem solving, logic, geometry, number theory, numeration systems, and statistics.

MGF 1131
Mathematics in Context ◆
(3 Credits - 3 Hours)
In this course, students will experience the practicality of mathematics in a global society. Students will engage in the applications of tools and techniques of mathematics in a variety of contextual situations from everyday life. This course is appropriate for students in a wide range of disciplines/programs. Topics include financial mathematics, voting methods, graph theory, data visualization with technology, statistics, probability, ratios and proportions.

STA 2023
Elementary Statistics ◆
(3 Credits - 3 Hours)
Prerequisite: Completion of MAT 1033 or MGF 1130 or MGF 1131 with a grade of "C" or higher, or a satisfactory score on a placement test. In this course students will utilize descriptive and inferential statistical methods in contextual situations, using technology as appropriate. The course is designed to increase problem-solving abilities and data interpretation through practical applications of statistical concepts. This course is appropriate for students in a wide range of disciplines and programs. Topics will include graphs, measures of center, measures of variation, linear correlation and regression, probability, binomial distributions, normal distributions, sampling distributions, confidence intervals, and hypothesis testing.

STA 2023
Honors Elementary Statistics ◆
(3 Credits - 3 Hours)
Graphing calculator required. Consult with instructor before purchasing. Prerequisite: Admission to the SJR State Honors Program and completion of MAT 1033 or MGF 1130 or MGF 1131 with a grade of "C" or higher, or a satisfactory score on a placement test. In this course students will utilize descriptive and inferential statistical methods in contextual situations, using technology as appropriate. The course is designed to increase problem-solving abilities and data interpretation through practical applications of statistical concepts. This course is appropriate for students in a wide range of disciplines and programs. Topics will include graphs, measures of center, measures of variation, linear correlation and regression, probability, binomial distributions, normal distributions, sampling distributions, confidence intervals, and hypothesis testing. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

NURSING AND ALLIED HEALTH

Unless otherwise noted, Nursing and Allied Health courses may be considered to fulfill A.A. degree requirements by approval of the Vice President for Academic Affairs.

EMS 1119
Emergency Medical Technician
(6 Credits - 6 Hours)
Corequisites: EMS 1119L and EMS 1431. This course is an introduction to the knowledge and skills to be successful in meeting emergency medical technician certification and licensing requirements. Students will learn how to assess, treat and transport the sick and injured at the level of the emergency medical technician-basic. Included is information concerning basic structure and function of body systems and recent state of the art procedures required of the emergency medical technician. There is emphasis on assessment based learning and complies with national EMS Education Standards - EMT Instructional Guidelines.

EMS 1119L
EMT Lab
(3 Credits - 3 Hours)
Corequisite: EMS 1119 and EMS 1431. An integrated experience that is designed to allow the student to apply practical experience to material learned in Emergency Medical Technician. Laboratory practice includes emergency procedures for life-threatening disease, accident, or illness and is closely supervised to foster confidence in the student's abilities to apply theory in a laboratory setting. Techniques for patient assessment, evaluation and treatment are practiced in an assessment-based format in a laboratory setting.

EMS 1431
EMT Hospital/Field Experience
(3 Credits)
Total Course Hours: 120 Hours
Corequisite: EMS 1119 and EMS 1119L. This portion of the student's education brings the theory taught in lecture and skills taught in laboratory sessions together in practical application on live patients. Includes practical application of EMT clinical knowledge and skills under professional supervision. Provides for directed experiences in local hospitals and health facilities and field observation and experience in emergency vehicles. Along with successful completion of corequisites provides eligibility for national and State of Florida EMT certification examinations.

EMS 2010
EMS Anatomy and Physiology
(3 Credits - 3 Hours)
This is a comprehensive study of anatomy and physiology of the human body. Topics include the structure, function, and interrelationship of organ systems with emphasis on the processes which maintain homeostasis.

EMS 2603
Paramedic I
(6 Credits - 6 Hours)
Corequisites: EMS 2010, EMS 2603L, EMS 2666. This course presents the objectives and complies with the national EMS Education Standards-Paramedic Instructional Guidelines. This course stresses theory and procedures used by a comprehensive emergency medical system in advanced pre-hospital care of the emergency patient. Topics studied include roles and responsibilities, medical legal issues, well-being of the paramedic, illness and injury prevention, ethics, medical terminology review, patient assessment, airway management, venous access and medication administration, therapeutic communications, life span development, pathophysiology, management of shock and general pharmacology.

EMS 2603L
Paramedic I Lab
(2 Credits - 4 Hours)
Corequisites: EMS 2010, EMS 2603, EMS 2666. This course presents the objectives and complies with national EMS Education Standards - Paramedic Instructional Guidelines. This course stresses theory and procedures used by a comprehensive emergency medical system in advanced pre-hospital care of the emergency patient. Topics studied include illness and injury prevention, medical terminology review, patient assessment, airway management, venous access and medication administration, therapeutic communications, management of shock and general pharmacology.

EMS 2604
Paramedic II
(8 Credits - 8 Hours)
Prerequisite: EMS 2010, EMS 2603, EMS 2603L, EMS 2666 with a grade of "C" or higher. Corequisites: EMS 2604L, EMS 2667. This course presents the objectives and complies with national EMS Education Standards - Paramedic Instructional Guidelines. This course stresses theory and procedures used by a comprehensive emergency medical system in advanced pre-hospital care of the emergency patient. Topics studied include the following medical emergencies: cardiology, pulmonary, neurology, endocrinology, allergies, gastroenterology, renal, toxicology, hematology, environmental conditions, communicable diseases, gynecology, obstetrics and psychiatric emergencies. The following trauma emergencies include burns, spinal, thoracic, abdominal, musculoskeletal, head, facial, soft tissue, hemorrhage and shock.

EMS 2604L
Paramedic II Lab
(2 Credits - 4 Hours)
Prerequisite: EMS 2010, EMS 2603, EMS 2603L, EMS 2666 with grades of "C" or higher. Corequisites: EMS 2604, EMS 2667. This course presents the objectives and complies with national EMS Education Standards - Paramedic Instructional Guidelines. This course stresses theory and procedures used by a comprehensive emergency medical system in advanced pre-hospital care of the emergency patient. The laboratory will focus on cardiovascular, respiratory and traumatic emergencies, enabling students to practice the associated treatment modalities. Topics studied include the following treatment of medical emergencies: cardiology, pulmonary, neurology, endocrinology, allergies, gastroenterology, renal, toxicology, hematology, environmental conditions, communicable diseases, gynecology, obstetrics and psychiatric emergencies. The following trauma emergency treatments include burns, spinal, thoracic, abdominal, musculoskeletal, head, facial, soft tissue hemorrhage and shock.

EMS 2605
Paramedic III
(5 Credits - 5 Hours)
Prerequisites: EMS 2604, EMS 2604L, EMS 2667 with a grade of "C" or higher. Corequisites: EMS 2605L, EMS 2920, EMS 2659. This course presents the objectives and complies with national EMS Education Standards - Paramedic Instructional Guidelines. This course stresses theory and procedures used by a comprehensive emergency medical system in advanced pre-hospital care of the emergency patient. Topics studied include the following: neonatology, pediatrics, geriatrics, abuse and assault, patients with special challenges, acute interventions for the chronic care, patient assessment based management, ambulance operations, medical incident command, rescue awareness and operations, hazardous materials incidents and crime scene awareness.

EMS 2605L
Paramedic III Lab
(1 Credit - 2 Hours)
Prerequisites: EMS 2604, EMS 2604L, EMS 2667 with a grade of "C" or higher. Corequisites: EMS 2605, EMS 2920, EMS 2659. This course presents the objectives and complies with national EMS Education Standards - Paramedic Instructional Guidelines. This course stresses theory and procedures used by a comprehensive emergency medical system in advanced pre-hospital care of the emergency patient. Topics studied include the following: emergency treatment techniques for neonatology, pediatrics, geriatrics, abuse and assault, patients with special challenges, acute interventions for the chronic care patient, assessment-based management, ambulance operations, medical incident command, rescue awareness and operations, hazardous materials incidents and crime scene awareness.

EMS 2659
Paramedic Field/Clinical Internship
(5 Credits)
Total Course Hours: Field 324 Hours; Clinical 36 Hours
Prerequisites: EMS 2604, EMS 2604L, EMS 2667 with a grade of "C" or higher. Corequisites: EMS 2605, EMS 2605L, EMS 2920. This course allows students to correlate all of the didactic background in the paramedic courses with advanced patient care and offers the students opportunities to demonstrate competency in the skills learned in all of the paramedic laboratories. Students will be assigned to specific fire departments to complete field ride time. Students will also perform pediatric clinical rotations during the first part of the semester. Students will perform various emergency medical modalities and procedures under the direct supervision of a paramedic preceptor. This course will focus all treatment modalities as final preparation for the National Registry certification examination and a career as a paramedic.

EMS 2666
Paramedic I Clinical Experience
(4 Credits)
Total Course Hours: Clinical 120 Hours
Corequisites: EMS 2010, EMS 2603, EMS 2603L. This course stresses theory and procedures used by a comprehensive emergency medical system in advanced pre-hospital care of the emergency patient. This course allows students to correlate didactic background with basic patient care and offers the student opportunities to demonstrate competency in the skills learned in the Paramedic I Laboratory. Students are assigned to specific agencies to perform various emergency medical modalities and procedures under the direct supervision of a paramedic, nurse or physician.

EMS 2667
Paramedic II Clinical Experience
(4 Credits)
Total Course Hours: Clinical 240 Hours
Prerequisites: EMS 2010, EMS 2603, EMS 2603L, EMS 2666 with a grade of "C" or higher. Corequisites: EMS 2604, EMS 2604L This course stresses theory and procedures used by a comprehensive emergency medical system in advanced pre-hospital care of the emergency patient. This course allows

students to correlate didactic background with basic patient care and offers the student opportunities to demonstrate competency in the skills learned in the Paramedic II Laboratory. Students are assigned to specific agencies to perform various emergency medical modalities and procedures under the direct supervision of a paramedic, nurse or physician.

EMS 2920
Paramedic Seminar
(2 Credits - 2 Hours)
Prerequisites: EMS 2604, EMS 2604L, EMS 2667 with a grade of "C" or higher. Corequisites: EMS 2605, EMS 2605L, EMS 2659. The course presents the objectives contained in the current American Heart Association ACLS and PALS curriculum. Also presented in this course are the objectives found in the current NAEMT PHTLS Trauma First Response curriculum. These courses stress theory and procedures used by a comprehensive emergency medical system in advanced pre-hospital care of the emergency patient.

HCP 0001
Health Careers Core
(90 Contact Hours)
This course is nontransferable.
Course is the introductory course for all allied health careers. Course provides a knowledge of the health care delivery system and an understanding of wellness and disease concepts.

HCP 0120C
Nursing Assistant
(120 Contact Hours)
This course is nontransferable.
Course prepares students to be nursing assistants. Students will perform nursing procedures, provide personal patient care, care for geriatric patients and assist with rehabilitative activities. Clinical learning experience will consist of 40 hours of supervised clinical experience in a licensed nursing home.

HIM 1000
Introduction to Health Information Management ◆
(3 Credits - 3 Hours)
This course provides an introduction to the field of health information management, including: a history of the profession, professional organizations, accreditation standards, and the functions, content and structure of the health care record.

HIM 1110
Standard Healthcare Practices
(3 Credits - 3 Hours)
This course provides an introduction to the principles and concepts of performance improvement and quality management in healthcare. Topics include clinical quality improvement, utilization review case management, risk management, infection control and patient safety, medical staff credentialing and peer review, accreditation standards, laws and regulations, tools and techniques for data collection, analysis and presentation of data and the role of the HIM Department.

HIM 1211C
Health Information Systems
(3 Credits - 3 Hours)
This is a (3) credit introduction to information technology related to healthcare and the automated tools and techniques for collecting, storing and retrieving data. Topics include the implementation of information systems in the healthcare industry with a focus on the evolution and goals of the Electronic Health Record (EHR). Students will explore the transition from a paper based health record to an EHR through the AHIMA virtual lab system. Students will be given access to "hands-on" applications on a variety of healthcare electronic systems enhancing technology skills and knowledge. Students will be given opportunity to utilize and practice with current software packages common in the healthcare industry.

HIM 1282C
Basic ICD Diagnostic Coding
(3 Credits - 3 Hours)
This coding course is designed to provide an introduction to the International Classification of Disease (ICD) coding system and general diagnosis coding guidelines. This course will define basic coding definitions, introduction to billing methodology, sequence and assign appropriate diagnostic codes for both inpatient and outpatient settings. The student will assign codes to specific basic coding assignments using ICD manual and 3M Encoder software.

HIM 1442
Pharmacology for Health Professionals
(2 Credits - 2 Hours)
Prerequisites: HSC 1531, BSC 2085 and BSC 2085L with grades of "C" or higher. This course provides an introduction to the principles of pharmacology, including drug terminology, drug origins, forms, and actions; routes of administration; as well as the use of generic name drug, trade name drugs, and categories of drugs to treat various body systems. Indications and contraindications associated with drug therapy and related disease processes are described.

HIM 1500
Quality Management
(3 Credits - 3 Hours)
Prerequisite: HSC 1000 with a grade of "C" or higher. This course provides an introduction to the study of the principles and concepts of clinical quality management, compliance, risk management, case management, utilization review and performance improvement and medical staff credentialing process.

HIM 2012
Health Care Law
(3 Credits - 3 Hours)
Prerequisite or Corequisite: HSC 1000 with grade of C or higher. This course provides an introduction to the study of law as applied to the health field including: legal terminology, the judicial system, misconduct, malpractice, and legal and professional standards. The importance of proper documentation and informed consent will be emphasized. This course will also cover the fundamentals of medical ethics and ethical behavior as it relates to clinical practice.

HIM 2214
Healthcare Statistics and Research
(3 Credits- 3 Hours)
Prerequisites: College-level mathematics course, HIM 1000, and HIM 1110 with grades of "C" or higher. This course provides an introduction to the terms, definitions, and formulae used in computing health care statistics. In addition, the course will include vital statistics data and rates; basic statistical terminology and computations, including frequency distribution, measures of central tendency and measures of variation; techniques for presenting data via computer technology; and basic research terminology and methodologies.

HIM 2255C
CPT Coding
(3 Credits - 3 Hours)
Prerequisite or Corequisite: HIM 2723C with a grade of "C" or higher. This course provides an introduction to the study of Current Procedure Terminology (CPT) coding. Simulation of outpatient coding, including ambulatory surgery, diagnostic testing and procedures, and physician services using health records. Emphasis is placed on the use of official CPT coding guidelines, compliance and Ambulatory Payment Classification (APC) calculations. The student will have hands-on practice using encoder software.

HIM 2432
Concepts of Disease
(3 Credits - 3 Hours)
Prerequisite: HSC 1531 or BSC 2085 with lab with grades of "C" or higher. Pre or Corequisite: BSC 2085 with lab with grades of "C" or higher. This course provides an introduction to the study of disease processes with concurrent study of diagnostic and laboratory testing, pharmacological treatment, and surgical treatment of disease.

HIM 2512
Supervision, Organization and Management +
(3 Credits - 3 Hours)
Prerequisite: HIM 1110 with a grade of "C" or higher. This course provides an introduction to departmental management including principles of management, operational management, human resource management, and financial management. Emphasis will be on team building, identifying and understanding customers, self discovery, and leadership.

HIM 2723C
ICD Procedure Coding
(3 Credits - 3 Hours)
Prerequisite: HIM 1282C with a grade of "C" or higher. This coding course is designed to provide an introduction to the International Classification of Disease (ICD) coding system and general diagnosis coding guidelines for surgical procedures. Emphasis is placed on the use of official procedural coding guidelines, coding compliance, MS DRG calculations, sequencing, and reimbursement methodology. The student will assign codes to specific basic coding assignments using ICD manual and 3M Encoder software.

HIM 2729C
Advanced Coding and Reimbursement
(3 Credits - 3 Hours)
Prerequisites: HIM 1282C, HIM 2723C with a grade of "C" or higher. Corequisite: HIM 2255C. This course provides the HIM student an opportunity to apply advanced concepts and techniques for ICD Coding and reimbursement using actual case studies, simulated paper record cases, and electronic records. The student will also utilize the 3M Encoder software in performing outpatient and impatient coding. Lab fee.

HIM 2800
Professional Practice Experience I
(3 Credits)
Total Course Hours: Clinical 64 Hours
Prerequisite: HIM 1211C with a grade of "C" or higher. The student will learn comprehensive topics in Health Information Technology functions: Account Access and Login, Patient Care Services, Master Patient Index, Physician Care Manager, Release of Information, Deficiency Analysis, Delinquency Reporting and Revenue Cycle Management, and Chart Analysis. Virtual lab activities are a required component of this course.

HIM 2820
Professional Practice Experience II
(3 Credits)
Total Course Hours: Clinical 64 Hours
Prerequisite: HIM 1110 with a grade of "C" or higher. Corequisite: HIM 2512 with a grade of "C" or higher. This class and lab course provides a supervised practicum at a hospital or alternative healthcare setting. The course will focus on assisting the student to begin integration into the HIM field by exploring managerial duties and interaction of the PI/UR/RM/Medical Staff departments. Activities conducted will assist the student to enter the workplace. The course will introduce the student to the preparation needed to sit for the RHIT National Examination by AHIMA. Lab Fee. Traveling, Day/Evening.

HSA 1255
Office Management in Health Sciences Profession
(3 Credits - 3 Hours)
Prerequisite: CGS 110 Microcomputer Application Software with a grade of "C" or higher. This course prepares students to integrate office management skills in a medical environment.

HSA 2252
Health Care Coding
(3 Credits - 3 Hours)
Prerequisite: HSC 1531 Medical Terminology with a grade of "C" or higher. This course is designed to prepare students to work in medical offices, hospitals, nursing homes, and other medical facilities. Specifically, this course provides an introduction to the study of coding, billing and the reimbursement processes.

HSC 1000
Introduction to Health Care Delivery System ◆
(3 Credits - 3 Hours)
An introduction to the evolution and organization of the healthcare delivery system of the United States, including differentiating the roles of various providers and disciplines throughout the continuum of healthcare, the organization of healthcare delivery systems in the United States, healthcare providers and disciplines, and identification of laws, accreditations, licensure, and certification standards to Healthcare Delivery Systems.

HSC 1004
Professions of Caring ◆
(3 Credits - 3 Hours)
This course explores various nursing and allied health careers and their related programs of study. It includes self-exploration as it relates to personality and career interest, reviewing expectations of degree/certificate programs, learning study skills, test taking strategies, and organization skills unique to learning in health care professions, developing information research skills, developing critical thinking skills, and orienting to the technology of nursing and allied health careers an online environments of nursing and allied health classes and testing.

HSC 1030
Strategies for Success and Performance
(3 Credits – 3 Hours)
This course is designed to improve the student's ability to be successful in a limited access Allied Health program (Radiology, Respiratory, Paramedic, Health Information Technology). The course assists the student to assess knowledge, skill, lab and clinical performance deficits (if applicable), to develop an individual plan of improvement and remediation and to implement the plan of improvement. Practical application of Allied health patient care skills will be incorporated in the course. Based on the student's individualized improvement/remediation plan, the course may encompass in-seat class time, online class time, and/or lab and/simulation hours.

HSC 1531
Medical Terminology ◆
(3 Credits - 3 Hours)
This course provides an introduction to the terminology of medicine, making it understandable through the study of the word roots, combining forms, prefixes, suffixes, and etymology. The student will learn to build, recognize, spell, and pronounce medical terms.

HSC 1641
Legal and Ethical Issues for Healthcare Providers
(3 Credits - 3 Hours)
This course provides an introduction to the study of healthcare legal and ethical issues relating to all healthcare professionals. The importance of the healthcare delivery system, legal and ethical responsibilities and understanding of information technology applications in healthcare.

HSC 0003
Basic Healthcare Worker
(90 Contact Hours)
Classroom 60 Hours, Lab 30 Hours
This course is nontransferable.
This course provides knowledge of health occupations, the healthcare

delivery system and an understanding of the wellness and disease concepts. An overview of the following principles is included: interpersonal and communication skills, legal and ethical responsibilities, wellness and illness concepts, safety and security procedures, response in emergency situations, infection control procedures, computer literacy skills, employability skills and blood-borne disease precautions including AIDS.

HSC 2930
Special Topics - Capstone
(3 Credits)
Prerequisite: Permission of the Dean/Director. This course is designed for students preparing to graduate and transition to employment and/or continuing education. Students will complete development of an online portfolio to include a cover letter, resume, work samples, and completion of an approved culminating project or internship. Additionally, students will complete a job search related to their areas of interest and will apply for jobs prior to graduation.

MEA 0506C
Administrative Office Procedures
(90 Contact Hours)
This course is nontransferable.
This course provides the student with knowledge and skills related to the medical office. The skills covered in this course include health insurance, procedural coding, diagnostic coding, patient accounts, preparing insurance claims, posting insurance payments, patient billing, posting patient payments, collecting fees, banking procedures, accounts payable, accounting procedures, facilities management, emergency preparedness, and managing the office.

MEA 0581C
Clinical Assisting
(230 Contact Hours)
Classroom 115 Hours, Lab 115 Hours
This course is nontransferable.
This course will provide the student with the skills and knowledge needed to assist the practitioner with various aspects of the clinical practice. Students will learn to apply principles of aseptic technique and infection control in the medical office environment. Skills included in this course are vitals, patient care, preparation for examinations and procedures, treatments, surgical sterilization procedures, and equipment use, care and routine maintenance.

MEA 0543C
Electrocardiograph Aide
(75 Contact Hours)
Classroom 25 Hours, Lab 50 Hours
This course is nontransferable.
This course orients students to the structure and function of the human body specific to the cardiovascular system. Students will be able to demonstrate necessary skills and knowledge to prepare a patient for an EKG procedure; perform an EKG using standard precautions, infection control, quality assurance, and safety; and recognize basic cardiac rhythms.

MEA 0002
Introduction to Medical Assisting
(250 Contact Hours)
Classroom 125 Hours, Lab 125 Hours
This course is nontransferable.
This course introduces the student to the role of the medical assistant and the legal and ethical responsibilities as a member of the healthcare team. Students will develop an understanding of basic anatomy and physiology, diagnostic options to identify pathology, basic treatments, and dietary guidelines for common diseases. The course provides students with communication skills (including medical terminology, signs, symbols and labels) for the health care setting.

MEA 0573C
Laboratory Procedures
(125 Contact Hours)
Classroom 40 Hours, Lab 85 Hours
This course is nontransferable.
This course consists of an introduction to clinical equipment, basic laboratory diagnostic testing, specimen collection and processing. The student will gain an understanding of the various laboratory tests, safety rules, and government regulations. Students will learn how to perform basic tests and microscopic examination procedures. Topics will include emergency preparedness and protective practices.

MEA 0501C
Medical Office Procedures
(75 Contact Hours)
Classroom 25 Hours, Lab 50 Hours
This course is nontransferable.
The student will be introduced to basic administrative medical office duties. Topics covered in this course include communication; filing; use of office equipment, including the computer; establishing a medical record for the patient, use of the EMR; using telephone appropriately; appointment scheduling; scope of practice for the medical assistant; creating and maintaining supply and equipment inventories; reception; and understanding of office policies and procedures.

MEA 0530C
Pharmacology for Medical Assisting
(90 Contact Hours)
Classroom 60 Hours, Lab 30 Hours
This course is nontransferable.
The course introduces pharmacological principles and prepares the medical assistant to perform duties relevant to medication administration. The course covers drugs, their uses and effects, pharmaceutical terminology and abbreviations; methods and routes of drug administration; calculation of dosages; preparation and administration of non-parenteral, parenteral, and powdered drugs. Legal and ethical standards related to the administration and dispensing of drugs will be discussed including following the Seven Rights of Drug Administration.

MEA 0521C
Phlebotomist, Medical Assisting
(75 Contact Hours)
Classroom 25 Hours, Lab 50 Hours
This course is nontransferable.
This course focuses the practice of phlebotomy. Basic phlebotomy techniques and rationale are discussed and simulated. Course content includes but is not limited to the safe and efficient work practices, quality assurance basics; maintaining specimen integrity, preparing and labeling and transporting of specimens; blood collections equipment; venipuncture procedures; capillary blood specimens; pediatric and geriatric procedures; and special collections. The student will be able to demonstrate necessary skills and knowledge to perform phlebotomy while practicing standard precautions, infection control, quality assurance, safety, and promoting the comfort and wellbeing of the patient during specimen collection.

MEA 0942
Practicum Experience
(200 Contact Hours)
Clinical 200 Hours Ambulatory Care Setting
This course is nontransferable.
This course provides the medical assisting student the opportunity to apply the knowledge and skills learned in the classroom and laboratory setting to the ambulatory health care setting. The practicum experience allows the student to enhance their critical thinking, knowledge and skills while performing administrative and clinical procedures under the direction of a licensed physician and medical assisting professional.

NUR 1005
LPN Transition
(4 Credits - 5 Hours)
45 Hours Online, Lab 30 Hours. Simulation /Clinical 0 Hours
This course builds upon the Licensed Practical Nurse's education and readiness to advance into the associate degree program. In this course, students learn to differentiate between the roles of the practical and associate degree nurse. Emphasis is placed on advancing the critical thinking skills of the nurse in the role of caregiver, educator, and manager. Course content and lab activities practice critical thinking and evidence based practice.

NUR 1020
Foundations of Nursing Practice
(4 Credits – 4 Hours)
Didactic 60 Hours
Corequisite: NUR 1020L Foundations of Nursing Practice Lab, Prerequisite: Admission to the Nursing Program. This theory course lays a foundation for socialization into the nursing profession and provides novice nursing students with an elementary understanding of key concepts and principles supporting the practice of holistic nursing. Emphasis is on the ways that nurses assist patients meet universal healthcare requirements and aid the patient or members of his / her family capable of meeting the patient's self-care requisites. This course introduces the profession of nursing, the roles of the nurse as a member of the health team, and the legal and ethical foundations of nursing. The student is introduced to the use of the nursing process as the framework to provide nursing care activities to meet patients' needs. Principles of caring behaviors, cultural diversity, professionalism, critical thinking, health teaching, personal accountability and responsibility, and therapeutic communication skills are stressed. This course acquaints the student with psychological and physiological human needs and the nurse's role in assisting a person to meet these needs using evidence-based practice. Beginning competence in meeting basic human needs when caring for adults with common health derived limitations is stressed.

NUR 1020L
Foundations of Nursing Practice Lab
(5 Credits)
Total Course Hours: Didactic 15 Hours; Lab 90 Hours; Clinical 45 Hours
Corequisite: NUR 1020 Foundations of Nursing Practice, Prerequisite: Admission to the Nursing Program. This course complements the Foundations of Nursing Practice II course and is an integration of lecture, skills lab, and clinical experiences that emphasize the nurse as the caregiver in evidence-based nursing practice. The student is provided opportunities to develop clinical competencies in nursing activities needed to assist individuals in meeting basic human needs. The application of nursing process in maintaining microbial, physical, and psychological safety is introduced The nurse-patient relationship, health assessment, communication, and development of professional behaviors are emphasized. Students gain competency through demonstration and return demonstration in a supportive and supervised environment. Students provide 40 hours of direct patient care in the long term care setting. Demonstration of competency in the lab and in the clinical setting in performing basic nursing skills and dosage calculations for individuals with common health alterations is emphasized.

NUR 1140
Clinical Pharmacology
(3 Credits – 3 Hours)
Didactic 45 Hours
Prerequisite: NUR 1020 Foundations of Nursing Practice, NUR 1020L Foundations of Nursing Practice Lab. This course introduces the student to basic pharmacological concepts. Students learn pharmacodynamics, pharmacokinetics, drug classifications and prototypical drugs, drug dosages, drug interactions, legal/ethical considerations, and related nursing interventions.

NUR 1210C
Adult Health Nursing I
(5 Credits)
Total Course Hours: Didactic 45 Hours; Lab 15 Hours;
Clinical/Simulation 67.5 Hours
Prerequisite: NUR 1020 Foundations of Nursing Practice, NUR 1020L Foundations of Nursing Practice Lab. This course focuses on identifying self-care requisites of the adult, older adult and elderly patients using a systematic approach. The student will be introduced to physical assessment and the use of critical thinking in the study of relevant diagnostic tests and how changes affect the patient. Patient response to abnormal and normal pathophysiological events will be included. This course encompasses didactic, lab, simulation, and clinical experiences.

NUR 1212C
Adult Health Nursing II
(5 Credits)
Total Course Hours: Didactic 45 Hours; Lab 5 Hours;
Clinical/Simulation 83 Hours
Prerequisites: NUR 1140 Clinical Pharmacology, NUR 1210C Adult Health Nursing I. This course focuses on the care of the adult, older adult and elderly patients with self-care requisites. Emphasis is placed on the medical-surgical patient. The student will be able to recognize the normal and abnormal physical and sociological needs of the patient to improve patient outcomes. This course encompasses didactic, lab, simulation, and clinical experiences.

NUR 1521C
Mental Health Nursing
(3 Credits)
Total Course Hours: Didactic 38 Hours; Simulation/Clinical 25 Hours
Prerequisites: NUR 1140 Clinical Pharmacology, NUR 1210C Adult Health I. This course explores normal and psychopathological deviations of self care. Emphasis is placed on the ways that patients achieve restoration of psychological and emotional self care through counseling modalities, group dynamics, and psychopharmacologic agents. The roles of the nurse in promoting optimal psychosocial human functioning are analyzed. Clinical learning experiences will occur in hospital and in community settings. Effective application of the nursing process in meeting psychosocial human needs when caring for individuals across the life span with alterations of mental health is emphasized.

NUR 2244C
Adult Health Nursing III
(5 Credits)
Total Course Hours: Didactic 40 Hours; Simulation/Clinical 106 Hours
Prerequisites: NUR 1212C Adult Health II Nursing, NUR 1512C Mental Health Nursing. This course focuses on more complex diseases and self-care requisites of the adult, older adult and elderly patients in medical/surgical and critical care area. Emphasis is placed on advancing critical thinking skills to detect changes in patient status and to be able to respond appropriately to those changes. Analyzes effectiveness of nursing interventions based on patient outcomes. This course encompasses didactic, lab, simulation, and clinical experiences.

NUR 2460C
Parent Child Nursing
(4 Credits – 6 Hours)
Didactic 45 Hours, Clinical/Simulation 45 Hours
Prerequisites: NUR 1212C Adult Health Nursing II, and NUR 1521C Mental Health Nursing. This course focuses on the care of the patient and family during the childbearing years and the care of the child from infancy through adolescence. This course builds on the knowledge of the previous courses of study. It includes instruction about normal and abnormal physical events and the resolution of self-care deficits of the patient and family which present due to these events. The clinical experience includes opportunities to care for prenatal, intrapartum, postpartum, and pediatric patients in various patient care and simulation settings. The simulation and lab experiences will enhance the clinical and didactic learning.

NUR 2251C
Adult Health Nursing IV
(4 Credits)
Total Course Hours: Didactic 38 Hours; Simulation/Clinical 67.5 Hours
Prerequisites: NUR 2244C Adult Health Nursing III, NUR 2460C Parent Child Nursing. This course focuses on adult, older adult and elderly adult patients with multi-system organ dysfunction in various settings. Emphasis is placed on initiating and evaluating appropriate care including the restoration of the patient's self-care agency in an advanced healthcare setting. This course encompasses didactic, lab, simulation, and clinical experiences.

NUR 2810
Nursing Preparation for Practice
(Variable 1 - 3 Hours)
Didactic 15 - 45 Hours
Prerequisites: Permission of the Dean of Nursing or the Director of the BSN program. This course introduces students to topics related to the transition from student to practicing nurse. Topics include critical thinking, clinical judgment, collaboration and communication skills, evidence-based practice, and professional values and responsibilities. A key focus is introducing students to professional nursing and behaviors necessary for professional accountability. Students and faculty will complete a contract including number of credits, course objectives, student expectations, and methods of completing objectives, methods of evaluation to fulfill objectives.

NUR 2943C
Transitional Nursing
(4 Credits – 8 Hours)
Didactic 30 Hours, Clinical 90 Hours
Prerequisites: NUR 2244C Adult Health Nursing III, NUR 2460C Parent Child Nursing. This course provides the Student with the opportunity to synthesize the concepts of the curriculum in reference to patient care and patient care management. It also offers guidance in adapting to the roles of a graduate nurse. Opportunities are provided which allow the Student to enhance their organizational and critical thinking skills under the direction of an instructor and clinical agency preceptor in various acute care, sub-acute care, skilled nursing, and community settings. This course focuses on the higher level of critical thinking. Emphasis is placed on the medical-surgical patient. The student will be able to recognize the normal and abnormal physical and sociological needs of the patient to improve patient outcomes. Advanced development of the concepts of prioritization and delegation of patient care by the nurse will occur as it applies to the care of adult patients with health care deficits due to disease processes. This course encompasses didactic, lab, simulation, and clinical experiences.

PRN 0098C
Practical Nursing Foundations 1
(300 Contact Hours)
This course provides knowledge related to the healthcare system, healthcare delivery, and healthcare occupations. Students are introduced to the role and ethical/ legal responsibilities of the practical nurse. General concepts of the human body structure and function in relation to the health-illness continuum are discussed. Students will gain an understanding of policies and procedures for safe patient care measures in healthcare. The use of communication skills and technologies in patient care is explored. Emphasis is on the care of the geriatric patient and the nursing process in long-term care settings. Clinical experiences are provided in both a nursing laboratory and various healthcare facilities under faculty.

PRN 0099C
Practical Nursing Foundations 2
(300 Contact Hours)
Prerequisite: PRN 0098 Practical Nursing Foundations 1. This course introduces the student to specific nursing procedures in the care of patients in acute and long term care. This course encompasses general concepts of growth and development. Health maintenance of disease prevention, and health promotion are explored. Mental health status and psychosocial functioning, therapeutic nurse/client relationship, and the psychodynamics of behavior are explored. Students learn basic pharmacologic concepts and principles related to the safe administration of therapeutic agents by nurses to patients of all ages. The course is designed to facilitate the students' understanding of the mechanisms of drug actions and provide a safe approach to drug administration. Clinical experiences are provided in both a nursing simulated laboratory and various healthcare facilities under faculty supervision.

PRN 0290C
Medical Surgical Nursing I
(300 Contact Hours)
Prerequisite: PRN 0099 Practical Nursing Foundations 2. This course is designed to introduce the student to general concepts related to medical and surgical nursing and the nursing process in acute and long-term care settings. The health-illness continuum is covered including pathophysiological processes and medical-surgical interventions. Nursing care of patients with specific disease / disorders are discussed. Clinical experiences are provided in both a nursing simulated laboratory and various healthcare facilities under faculty supervision.

PRN 0291C
Medical Surgical Nursing II
(300 Contact Hours)
Prerequisite: PRN 0290 Medical Surgical Nursing I. This course builds on the concepts related to medical and surgical nursing and the nursing process in acute and long-term care settings. The health-illness continuum is covered including pathophysiological processes and medical-surgical interventions. Nursing care of patients with specific disease / disorders are discussed. Clinical experiences are provided in both a nursing simulated laboratory and various healthcare facilities under faculty supervision.

PRN 0690C
Comprehensive Nursing & Transitional Skills
(150 Contact Hours)
Prerequisite: PRN 0291 Medical Surgical Nursing II. This course encompasses general concepts of maternal/newborn and pediatric nursing using the nursing process in the acute and long-term care settings. Students learn to organize and care for multiple patients with health care deficits. Emphasis is placed on the role of the practical nurse in the clinical setting. Clinical experiences are provided in both a nursing simulated laboratory and various healthcare facilities under faculty supervision.

RET 1024C
Fundamentals of Respiratory Care
(4 Credits – 5 Hours)
Didactic 45 Hours, Lab 30 Hours, Clinical 0 Hours
This course investigates the role of the respiratory care practitioner (RCP) in the basic diagnosis and treatment of cardiopulmonary diseases using evidence and expert-based therapeutic objectives, specifically improving ventilation and oxygenation, delivery of medications, and arterial blood gas sampling. The course includes up-to-date treatment modalities, medical devices, indications for the treatments and medicines prescribed by physicians to treat respiratory diseases. The course also includes the use of universal precautions and the prevention of infection. Lecture and laboratory experience will enable the student to provide consultation to physicians treating medical cases.

RET 1027C
Respiratory Therapeutics and Diagnostics
(4 Credits – 5 Hours)
Didactic 45 Hours, Lab 30 Hours, Clinical 0 Hours
Prerequisite: RET 1024C with a "C" or higher. This course will include bronchial hygiene therapies, intermittent positive pressure breathing, airway care, intubation, and extubation procedures, weaning parameters, arterial lines, oxygen analyzers and chest tube insertion.

RET 1264C
Introduction to Respiratory Critical Care
(3 Credits – 4 Hours)
Didactic 30 Hours, Lab 30 Hours, Clinical 0 Hours
This course provides entry-level skills in adult mechanic al ventilation. Upon completion, the student should be able to demonstrate a basic understanding of positive airway pressure therapies, modes of ventilator support, and initiate and monitor mechanical ventilation in the laboratory setting.

RET 1284C
Cardiac Diagnostics
(3 Credits – 3 Hours)
Didactic 45 Hours, Lab 0 Hours, Clinical 0 Hours
This course focuses on the anatomy and physiology of the heart, diagnostic tests for structure and functions of the heart including, but not limited to: 12 lead ECG, hemodynamics, echocardiography, cardiac stress testing, and advanced cardiac diagnostics. In addition, advanced cardiac life support will be covered during this class.

RET 1350C
Cardiopulmonary Pharmacology
(3 Credits – 3 Hours)
Didactic 45 Hours Lab 0 Hours, Clinical 0 Hours
This course includes a study of pharmacological agents used in cardiopulmonary care. This would include the principles of pharmacological therapy, drug dosages, safe and effective administration, and indications and contraindications of these agents.

RET 1485C
Cardiopulmonary Anatomy and Physiology
(3 Credits- 3 Hours)
Didactic 45 Hours, Lab 0 Hours, Clinical 0 Hours
This course provides a concentrated study of cardiopulmonary anatomy and physiology essential to the practice of respiratory care. Emphasis is placed on cardiovascular and pulmonary physiology, and gas exchange.

RET 1874L
Clinical Education I
(1 Credit - 5 Hours)
Didactic 0 Hours, Lab 0 Hours, Clinical 75 Hours
Students will be oriented to local healthcare facilities with online presentations and power points in the classroom. Students will obtain an understanding of the principles of medical ethics and legal issues to include confidentiality, safety, and medical records. Students will gain an understanding of asepsis, and vital signs with patient assessment. Students will perform simulations to orient themselves to a replica of the hospital environment. This course is an introduction to the basic modalities in respiratory care.

RET 1875L
Clinical Education II
(3 Credits- 16 Hours)
Didactic 0 Hours, Lab 0 Hours, Clinical 240 Hours
Prerequisite: RET 1874L with a "C" or higher. This course introduces the student to the basic modalities in the assessment and treatment of cardiopulmonary conditions in the clinical setting. Students will rotate to several local hospitals during the semester. Students will obtain experience in bedside patient assessments, medical gas, aerosol, humidity, hyperinflation, and bronchial hygiene therapies; and arterial punctures with analyses of the results.

RET 2280C
Advanced Respiratory Critical Care
(4 Credits – 5 Hours)
Didactic 45 Hours, Lab 30 Hours, Clinical 0 Hours
Prerequisite: RET 1264C with a "C" or higher. This course focuses on the critically ill patients on high levels of ventilatory support. Students will utilize ventilation modes on lung simulators. The course emphasizes early detection of worsening pulmonary disease through monitoring and the utilization of data such as waveform analyses, loops, curves and arterial blood gas results. Case studies and clinical simulations will develop skills needed for these patients.

RET 2418C
Advanced Diagnostics and Therapeutics
(3 Credits – 3 Hours)
Didactic 45 Hours, Lab 0 Hours, Clinical 0 Hours
Prerequisite: RET 2280C with a "C" or higher. This course is a continuation of diagnostic equipment utilized in the assessment of patients with cardiopulmonary disorders. Topics include advanced monitoring and assessment of ventilatory management, home care, and pulmonary rehab. Other topics include cardiopulmonary diagnostic tools including heliox/ nitric oxide administration and titration, advanced pulmonary function studies, specialized mechanical ventilation to include high frequency ventilation (HFV), liquid lung and extracorporeal membrane oxygenation (ECMO).

RET 2601C
Cardiopulmonary Pathophysiology
(3 Credits – 3 Hours)
Didactic 45 Hours, Lab 0 Hours, Clinical 0 Hours
Prerequisite: RET 1024C with a "C" or higher. This course covers the etiology, pathophysiology, clinical manifestations, and management of cardiopulmonary disorders. The student will be introduced to clinical simulations to help develop skills that will enable a thorough clinical assessment and allow the student to recommend appropriate interventions.

RET 2714C
Pediatric and Neonatal Respiratory Care
(3 Credits – 4 Hours)
Didactic 30 Hours, Lab 30 Hours, Clinical 0 Hours
Prerequisite: RET 1264C with a "C" or higher. This course provides in-depth coverage of the concepts of neonatal and pediatric respiratory care. Emphasis is placed on normal neonatal and fetal development, airway management/resuscitation, normal/ abnormal lab values, pathophysiology and on the special equipment and therapeutic needs of infants and children. Pediatric and neonatal simulations will be designed for students to increase clinical and critical thinking skills. Pediatric advanced life support will be covered in this class.

RET 2876
Clinical Education III
(3 Credits – 16 Hours)
Didactic 0 Hours, Lab 0 Hours, Clinical 240 Hours
Prerequisite: RET 1875L with a "C" or higher. This course allows the student to apply critical care principles in a variety of clinical settings. Students will be responsible for the initiation, monitoring, evaluation, and weaning of patient mechanical ventilation. Students are exposed to various life-support systems and monitors.

RET 2877
Clinical Education IV
(3 Credits – 16 Hours)
Didactic 0 Hours, Lab 0 Hours, Clinical 240 Hours
Prerequisite: RET 2876 with a "C" or higher. This course will place the student in advanced and specialized areas in cardiopulmonary care. The student will be exposed to clinical areas to include various intensive care units, pediatric/neonatal intensive care, pulmonary rehabilitation, and advanced cardiopulmonary diagnostic studies.

RET 2878L
Clinical Education V
(3 Credits – 12 Hours)
Didactic 0 Hours, Lab 0 Hours, Clinical 180 Hours
Prerequisite: RET 2877 with a "C" or higher. This is a capstone clinical course where the students attend a clinical internship primarily in the adult critical

care area. Students are required to successfully complete clinical objectives and summative evaluations indicating readiness for professional respiratory care practice.

RET 2930C
Respiratory Care Seminar
(3 Credits – 3 Hours)
Didactic 45 Hours, Lab 0 Hours, Clinical 0 Hours
Prerequisite: RET 2418C with a "C" or better. This seminar includes a comprehensive review of respiratory care modalities, and techniques that encourage safe practice and success on the national credentialing examinations.

RTE 1000C
Introduction to Patient Care in Radiologic Sciences
(3 Credits – 5 Hours Lecture, 2 Hours Lab) (Half-semester course)
The content of this course will introduce the student to the history of radiography, the health care system, and will emphasize safety and patient health care needs. Specific topics addressed include workplace safety, patient transfer, the healthcare delivery system, professional role, behaviors, attitudes and communication, legal considerations, infection control, surgical asepsis, patient assessment, medication and medications administration (including venipuncture), emergency response, and response to patient needs.

RTE 1385
Radiobiology and Radiation Protection
(3 Credits – 3 Hours Lecture)
Prerequisite: RTE 1418C with a "C" or higher. This course is primarily concerned with the content specifications within the radiation protection category of the ARRT examination in radiography. The topics include: patient and personnel protection, biological effects, minimizing patient and personnel exposure, methods of protection, basic properties and units of radiation measurement, NCRP recommendations for protective devices and personnel monitoring, and dosimeters.

RTE 1418C
Radiologic Science
(4 Credits – 3 Hours Lecture, 2 Hours Lab)
This course is primarily concerned with content specifications within the image production and evaluation category of the ARRT examination in radiography. The topics include: radiographic exposure, contrast, distortion and detail, attenuation of the x-ray beam, scatter production and control, technical factors, digital imaging, image evaluation, quality control, PACS. Laboratory activities will require students to perform experiments related to the topics covered, and perform image analysis.

RTE 1503C
Radiographic Positioning I
(5 Credits – 4 Hours Lecture, 2 Hours Lab)
This course provides the student with an introduction in radiographic principles, terminology, radiation protection and instruction in the radiography anatomy and positioning of the chest, bony thorax, abdomen, pelvis and extremities. Trauma, mobile and pediatric radiography are included. Laboratory activities include exam simulations and radiography of phantoms.

RTE 1513C
Radiographic Positioning II
(5 Credits - 4 Hours Lecture, 2 Hours Lab)
Prerequisite: RTE 1503C with a "C" or higher. This course provides the student with instruction in the radiographic anatomy and positioning of the cervical spine, thoracic spine, lumbar spine, skull, cranial bones, facial bones, paranasal sinuses, mastoids, upper and lower gastrointestinal system, gall bladder, biliary ducts, urinary system and other specialized procedures. Required laboratory activities provide the student with the opportunity to participate in simulated examinations for each of the procedures covered in this course. Students will also produce phantom radiographs.

RTE 1804
Clinical Education I
(1 Credit – 12 Clinical Hours/week) (Half-semester course)
Prerequisite: RTE 1000C with a "C" or higher. This course begins halfway through the first fall semester of the program after RTE 1000C is complete. Affiliation agreements with various hospitals enable SJR State radiography students to gain valuable clinical experience in departments of radiology. During this clinical rotation students will observe and perform under direct and indirect supervision the application of those skills learned in the classroom and laboratory. This course is the first of five sequential clinical education courses.

RTE 1814
Clinical Education II
(3 Credits – 18 Clinical Hours/week)
Prerequisite: RTE 1804 with a "C" or higher. Affiliation agreements with various hospitals enable SJR State radiography students to gain valuable clinical experience in departments of radiology. During this clinical rotation students will observe and perform under direct and indirect supervision the application of those skills learned in the classroom and laboratory. This course is the second of five sequential clinical education courses.

RTE 1824
Clinical Education III
(5 Credits – 30 Clinical Hours/week)
Prerequisite: RTE 1814 with a "C" or higher. Affiliation agreements with various hospitals enable SJR State radiography students to gain valuable clinical experience in departments of radiology. During this clinical rotation students will observe and perform under direct and indirect supervision the application of those skills learned in the classroom and laboratory. This course is the third of five sequential clinical education courses.

RTE 2061
Radiologic Science Seminar
(5 Credits – 5 Hours Lecture)
Prerequisite: RTE 1385, RTE 2573C, RTE 2782C with a "C" or higher. This course provides the student with a comprehensive review of all subject content covered on the American Registry of Radiologic Technologist national certification examination in radiography.

RTE 2573C
Special Imaging Modalities
(3 Credits – 3 Hours Lecture)
Prerequisite: RTE 1513C and RTE 2613 with a "C" or higher. Study of the principles of computerized imaging, including computerized tomography (CT), Magnetic Resonance Imaging (MRI), Ultrasound, Digital Radiography, SPECT and PET. Study of applications in producing diagnostic images and safety issues in the various modalities. Will also emphasize normal and abnormal cross sectional anatomy.

RTE 2613
Radiologic Physics
(3 Credits – 3 Hours Lecture)
Prerequisite: RTE 1418C with a "C" or higher. This course is primarily concerned with the content specifications within the image production category of the ARRT examination in radiography. The topics include; X-ray generators, transformers, rectification systems, digital imaging units, electricity, magnetism, electromagnetism, X-ray tube, X-ray, production, X-ray imaging systems, fluoroscopic systems, conventional systems, and PACS systems. Evaluation of radiographic equipment and accessories will also be covered.

RTE 2782C
Radiographic Pathology
(3 Credits –3 Hours Lecture)
Prerequisite: RTE 1513C with a "C" or higher. This course will provide students with an understanding of the manifestations of pathological conditions and their relevance to radiographic procedures. Also discussed will be examples/

sites, complications, prognosis, etiology of the disease and various imaging modalities used.

RTE 2844
Clinical Education IV
(4 Credits – 24 Clinical Hours/week)
Prerequisite: RTE 1824 with a "C" or higher. Affiliation agreements with various hospitals enable SJR State radiography students to gain valuable clinical experience in departments of radiology. During this clinical rotation students will observe and perform under direct and indirect supervision the application of those skills learned in the classroom and laboratory. This course is the fourth of five sequential clinical education courses.

RTE 2854
Clinical Education V
(4 Credits – 24 Clinical Hours/week)
Prerequisite: RTE 2844 with a "C" or higher. Affiliation agreements with various hospitals enable SJR State radiography students to gain valuable clinical experience in departments of radiology. During this clinical rotation students will observe and perform under direct and indirect supervision the application of those skills learned in the classroom and laboratory. This course is the fifth of five sequential clinical education courses.

SON 1000
Introduction to Sonography
(3 Credits – 3 Hours)
This course presents the fundamental concepts, proficiencies, and methods related to providing high-quality patient care. It underscores the importance of medical terminology, ethical and legal aspects, sterilization practices, ergonomics, patient transfers, patient care methods, emergent situations, and the historical evolution of the role of the sonographer. Students will showcase their aptitude for making well-informed clinical assessments through hands-on scanning, executing patient care responsibilities, and displaying oral competency.

SON 1111
Abdominal Sonography I
(3 Credits – 3 Hours)
Prerequisites: SON 1000, SON 1113 and SON 1211 with a "C" or higher. Corequisite: SON 1111L. The objective of this course is to provide students with a comprehensive grasp of the structure, function, and disorders pertaining to the abdominal aorta, pancreas, biliary system, and liver. Emphasis will be placed on sonographic features and characteristics of normal anatomy as well as the various disease processes that affect each organ. The course will incorporate clinical and diagnostic protocols, both general and specific to individual organs, enhancing the overall understanding of these subjects.

SON 1111L
Abdominal Sonography I Lab
(1 Credit – 2 Hours)
Prerequisites: SON 1000, SON 1113 and SON 1211 with a "C" or higher. Corequisite: SON 1111. This course provides a laboratory environment for the student to work with ultrasound equipment to develop the skills necessary to perform abdominal exams. Students will practice scanning techniques, protocols, image optimization, patient positioning, technical impression worksheets, terminology, and mock physician presentations for each organ covered including abdominal aorta, pancreas, biliary system, and liver.

SON 1112
Abdominal Sonography II
(3 Credits – 3 Hours)
Prerequisites: SON 1000, SON 1111, SON 1111L, SON 1113 and SON 1211 with a "C" or higher. Corequisite: SON 1112L. Building upon the foundation laid in Abdominal I, this course aims to further enrich students' comprehension of the structure, function, and anomalies within the vascular systems of the liver, urogenital region, adrenal glands, spleen, gastrointestinal tract, and pediatric abdomen. The characteristics of normal and diseased anatomy of each organ will be discussed. Additionally, students will learn related clinical procedures and other diagnostic exams for each organ.

SON 1112L
Abdominal Sonography II Lab
(1 Credit – 2 Hours)
Prerequisites: SON 1000, SON 1111, SON 1111L SON 1113 and SON 1211 with a "C" or higher. Corequisite: SON 1112. This course provides an in-depth laboratory environment for the student to continue developing skills necessary to prepare for performing diagnostic exams in the clinical environment. Students will practice scanning techniques, protocols, image optimization, patient positioning, technical impression worksheets, terminology, and mock physician presentations for each organ covered including urogenital system, adrenal glands, spleen, GI tract and the pediatric abdomen.

SON 1113
Sonographic Cross-Sectional Anatomy
(2 Credits – 2 Hours)
The primary objective of this course is to equip sonography students with the ability to discern internal structures such as vital organs and vascular systems that are integral to the field of sonography. This entails understanding their positioning, interconnections, and visual characteristics. To achieve this, students will expand upon their foundational understanding of gross anatomy, honing their ability to identify cross-sectional anatomical features. Additionally, the curriculum will encompass sonographic scanning protocols and medical terminology specific to the anatomical structures under examination. The course aims to strengthen anatomical recognition and develop understanding of pathology.

SON 1121
Obstetrics/Gynecology Sonography I
(3 Credits – 3 Hours)
Prerequisites: SON 1000, SON 1113 and SON 1211 with a "C" or higher. The objective of this course is to provide students with comprehensive insights into the structure, function, and anomalies of the non-gravid female pelvis, along with the typical and atypical sonographic appearances. Additionally, the course serves as an introduction to the initial stage of pregnancy, encompassing embryonic growth, pertinent anatomical and physiological aspects, as well as potential complications for both the mother and embryo/fetus. Topics to be covered include embryology, early fetal progression, the ability to sonographically detect and visualize the embryo and fetus, as well as the utilization of transabdominal and transvaginal scanning techniques.

SON 1150
Neurosonology/Superficial Structures
(2 Credits – 2 Hours)
Prerequisites: SON 1000, SON 1113 and SON 1211 with a "C" or higher. Corequisite: SON 1150L. The objective of this course is to equip students with an understanding of the anatomy, physiology and pathological aspects of superficial anatomical structures. Attention will be devoted to the sonographic attributes and qualities of healthy anatomical structures, as well as the diverse disease processes that can impact each organ. The course content will encompass examinations of the thyroid, breast, testicle, prostate, neonatal spine, chest wall, in addition to addressing the structures related to the brain of premature infants and potential pathological conditions associated with premature birth.

SON 1150L
Neurosonology/Superficial Structures Lab
(1 Credit – 2 Hours)
Prerequisites: SON 1000, SON 1113 and SON 1211 with a "C" or higher. Corequisite: SON 1150. This course offers a hands-on setting where students will use ultrasound to refine the competencies required for conducting sonographic assessments of the thyroid, breast, testicle, prostate, neonatal spine, chest wall, and neonatal head. Participants will gain experience in ultrasound scanning methods, procedural guidelines, image enhancement, patient positioning, technical assessment forms, medical terminology, and simulated physician discussions. Attention will be given to the unique

requirements associated with each protocol.

SON 1211
Medical Sonographic Physics I
(3 Credits – 3 Hours)
This course is designed to present the sonography student with detailed explanations of ultrasound physics and its application. Students will learn about ultrasound instrumentation, image artifacts, biologic effects, and quality control. Explores Doppler principles and applications, basic types of equipment and image optimization.

SON 1804
Clinical Education I
(3 Credits – 120 Clinical Hours)
Prerequisites: SON 1000, SON 1111, SON 1111L, SON 1113 and SON 1211 with a "C" or higher. This course continues to build on clinical instruction in abdominal, obstetric, gynecologic, and vascular scanning protocols. Patient care, the role and duties of the sonographer in the health care environment and instruction in the use of various types of ultrasound equipment will be discussed. Students receive instruction and guidance in producing quality sonographic images and the parameters used to evaluate the images throughout their clinical rotations. This course requires the student to spend two days a week in an approved ultrasound department. Students will perform a variety of exams and procedures under the supervision of the designated clinical instructor. Students are given specific learning objectives for the rotation. Progress is evaluated according to a competency-based clinical education system.

SON 2122
Obstetrics/Gynecology Sonography II
(3 Credits – 3 Hours)
Prerequisites: SON 1000, SON 1113, SON 1121 and SON 1211 with a "C" or higher. Corequisite: SON 2122L. The primary objective of this course is to guide students to a comprehensive understanding of the anatomy, physiology and pathology of the gravid female pelvis and correlate the typical and atypical sonographic presentation. Moreover, this course serves as an introduction to the middle and final stages of pregnancy, encompassing fetal growth and development, pertinent anatomical and physiological aspects, and potential complications for both the expectant mother and the fetus. Key topics to be addressed include sonographic recognition and visualization of the developing fetus, fetal measurements, and the management of obstetric patients.

SON 2122L
Obstetrics/Gynecology Sonography II Lab
(1 Credit – 2 Hours)
Prerequisites: SON 1000, SON 1113, SON 1121 and SON 1211 with a "C" or higher. Corequisite: SON 2122. This course provides an in-depth laboratory environment for students to develop scanning skills and protocols as related to the second and third trimester obstetric patient. Students will practice scanning techniques, protocols, fetal biometrics, identification of normal fetal anatomy, in the level one second and third trimester exam.

SON 2171
Vascular Sonography I
(3 Credits – 3 Hours)
Prerequisites: SON 1000, SON 1113 and SON 1211 with a "C" or higher. Corequisite: SON 2171L. This course initiates the exploration of peripheral vascular, neck, and head blood flow assessment. The focus of this course centers on the principles, rationale, practical application, execution, and interpretation of ultrasound in the context of carotid, transcranial, and venous examinations. Normal and abnormal anatomy and hemodynamics will be discussed. Students will interpret normal and aberrant color flow patterns, spectral Doppler flow characteristics, with an emphasis on the velocity criteria. Furthermore, students will be introduced to surgical interventions within this context. Students will review the physics and instrumentation aspects of Doppler ultrasound, contrast normal and pathologic hemodynamics, and gain proficiency in the protocols and diagnostic criteria associated with cerebrovascular evaluations.

SON 2171L
Vascular Sonography I Lab
(1 Credit – 2 Hours)
Prerequisites: SON 1000, SON 1113 and SON 1211 with a "C" or higher. Corequisite: SON 2171. This course provides a laboratory environment for the student to gain skills in the use of fundamental ultrasonic equipment designed to detect blood flow in cerebrovascular arteries as well as the veins of the upper and lower extremity. Students will be taught scanning protocols for the carotid duplex exam, lower and upper extremity venous. Focus will be on image optimization, identification of normal anatomy, demonstration of physics principles and patient positioning.

SON 2175
Vascular Sonography II
(3 Credits – 3 Hours)
Prerequisites: SON 2171 and SON 2171L with a "C" or higher. Corequisite: SON 2175L. This course provides an overview of the attributes of irregular blood flow, pathology, and approaches to treatment. It explores the diagnostic techniques employed to identify vascular disorders in the limbs and abdominal region, encompassing assessments of arterial conditions in the upper and lower extremities, indirect arterial testing, evaluations of bypass grafts, dialysis fistulas, and the vascular system within the abdomen.

SON 2175L
Vascular Sonography II Lab
(1 Credit – 2 Hours)
Prerequisites: SON 2171 and SON 2171L with a "C" or higher. Corequisite: SON 2175. This course provides a laboratory environment for the student to work with vascular ultrasound and physiologic testing equipment in order to develop the skills necessary to perform vascular studies of the peripheral vascular system. Students will learn protocols, image optimization, patient positioning, and indications for exams. Studies covered include indirect arterial, lower extremity arterial, upper extremity arterial, mesenteric studies and complete abdominal doppler.

SON 2814
Clinical Education II
(5 Credits – 360 Clinical Hours)
Prerequisites: SON 1121, SON 1112, SON 1112L, SON 1150 and SON 1150L with a "C" or higher. This course continues to build on the skills learned in Clinical Rotation I continuing to provide clinical instruction in abdominal, obstetric, gynecologic and vascular scanning protocols. Patient care, the role and duties of the sonographer in the health care environment and instruction in the use of various types of ultrasound equipment will be discussed. Students receive instruction and guidance in producing quality sonographic images and the parameters used to evaluate the images. This course requires the student to spend three days a week in an approved ultrasound department. Students will perform a variety of exams and procedures under the supervision of the designated clinical instructor. Students are given specific learning objectives for the rotation. Progress is evaluated according to a competency-based clinical education system.

SON 2824
Clinical Education III
(7 Credits – 480 Clinical Hours)
Prerequisites: SON 2814 with a "C" or higher. This course continues to build on the skills learned in Clinical Rotation II continuing to provide clinical instruction in abdominal, obstetric, gynecologic and vascular scanning protocols. Patient care, the role and duties of the sonographer in the health care environment and instruction in the use of various types of ultrasound equipment will be discussed. Students receive instruction and guidance in producing quality sonographic images and the parameters used to evaluate the images. This course requires the student to spend four days a week in an approved ultrasound department. Students will perform a variety of exams and procedures under the supervision of the designated clinical instructor. Students are given specific learning objectives for the rotation. Progress is

evaluated according to a competency-based clinical education system.

SON 2930
Special Topics
(2 Credits – 2 Hours)
Prerequisites: SON 1112, SON 1112L, SON 1121, SON 1150 and SON 1150L with a "C" or higher. Corequisite: SON 2824. This course offers advanced critical thinking principles learned in prior sonography program courses. Included in this course are film critiques, discussion of patient case studies, review of lab values and how they relate to the patient symptoms and pathological process, advanced protocols related to disease processes. Emphasis is on the correlation of all patient data, including sonographic images obtained to assist in the differential diagnosis process. Students will take mock registry exams, practice computerized testing practices, and review test taking skills.

NATURAL SCIENCE

Science laboratory courses have an assigned credit hour value and will be assigned a separate grade from the lecture component. In the event that a student earns a passing grade in one component and not the other, only that component failed needs to be repeated.

Prerequisite and corequisite requirements must be observed. Failure to enroll in required corequisites will result in administrative withdrawal from the course. In addition, if after registration a student decides to withdraw from either the lecture or the laboratory, he must also withdraw from its corequisite. However, during the last 10 days of the withdrawal period for fall and spring terms or during the last five days of the withdrawal period during summer terms, a student may request approval from the instructor (of the course the student is not withdrawing from) to withdraw from a corequisite. This request requires approval by both the instructor of the course the student is not withdrawing from and the Dean of Arts and Sciences.

AST 1002
Introduction to Astronomy ◆
(3 Credits - 3 Hours)
Corequisite: AST 1002L. This course provides a comprehensive look at modern astronomy, emphasizing the use of the scientific method and the application of physical laws to understand the Universe including Earth and its environment. Throughout this course, students will develop the ability to discern scientific knowledge from non-scientific claims by using critical thinking.

AST 1002L
Laboratory for Introduction to Astronomy ◆
(1 Credit - 2 Hours)
Corequisite: AST 1002. This course is the laboratory that explores the topics covered in the Introduction to Astronomy lecture course, including the areas of optics, telescope design and structure, spectra, and analysis of data from observations of the sun, moon, planets, and other celestial objects. Some required observing sessions may occur at times other than the scheduled laboratory classes.

BSC 1003
Microbes and Society ◆
(3 Credits - 3 Hours)
This course will serve as an introduction for non-science majors into the unseen world of microorganisms (microbes). Students will learn about the biology of bacteria , fungi, viruses, and other microbes. They will examine the historical aspects of the interactions between microbes and human society, including the use of microbes in industries including food production, agriculture, and biotechnology. The role of microbes in the environment and disease will also be covered. This course will contain some hands-on laboratory experiences investigating non-infectious microbes. This course does not fulfill requirements for nursing or allied health programs.

BSC 1005
Introduction to Biology ◆
(3 Credits - 3 Hours)
Corequisite: BSC 1005L. This course applies the scientific method to critically examine and explain the natural world including but not limited to cells, organisms, genetics, evolution, ecology, and behavior.

BSC 1005L
Laboratory for Introduction to Biology ◆
(1 Credit - 2 Hours)
Corequisite: BSC 1005. A hands-on laboratory experience to reinforce and supplement the material presented in the BSC 1005 lecture. The emphasis will be on major biological concepts such as cell structure and function, biochemistry and metabolism, genetics and the interrelationships among organisms.

BSC 1020C
Human Biology and Laboratory ◆
(3 Credits - 5 Hours)
This is a course designed for students not majoring in biology. It includes study of the human body's major organ systems and processes. Human diseases, their prevention, treatment and the bioethical issues they raise will be considered. This is a combined course; it has 3 contact hours for the lecture, and a 2 contact hour laboratory. This course is not designed to fulfill requirements for allied health students.

BSC 2010
General Biology I ◆
(3 Credits - 3 Hours)
Corequisite: BSC 2010L. In this course students will apply the scientific method to critically examine and explain the natural world. This course will cover molecular biology, cellular biology, genetics, metabolism, and replication.

BSC 2010
Honors General Biology I ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program. Corequisite: BSC 2010L. In this course students will apply the scientific method to critically examine and explain the natural world. This course will cover molecular biology, cellular biology, genetics, metabolism, and replication. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

BSC 2010L
Laboratory General Biology I ◆
(1 Credit - 3 Hours)
Corequisite: BSC 2010. Primarily for science majors, this is a laboratory course to provide a hands-on experience to reinforce and supplement material presented in BSC 2010. This course emphasizes biology at the cellular level. Topics will include measurement; use and care of the microscope; chemistry and biochemistry; cell structure and function; cell division, including mitosis and meiosis; metabolism, including cellular respiration and photosynthesis; and genetics, including Mendelian and molecular genetics and biotechnology.

BSC 2010L
Honors Laboratory for General Biology I ◆
(1 Credit – 3 Hours)
Prerequisite: Admission to the SJR State Honors Program. Corequisite: BSC 2010. Primarily for science majors, this is a laboratory course to provide a hands-on experience to reinforce and supplement material presented in BSC 2010. This course emphasizes biology at the cellular level. Topics will include measurement; use and care of the microscope; chemistry and biochemistry; cell structure and function; cell division, including mitosis and meiosis; metabolism, including cellular respiration and photosynthesis; and genetics, including Mendelian and molecular genetics and biotechnology. This course involves significant reading, writing, discussion, challenge problems and/or

student participation.

BSC 2011
General Biology II ◆
(3 Credits - 3 Hours)
Prerequisite: BSC 2010 and BSC 2010L with a grade of "C" or higher. Corequisite: BSC 2011L. Primarily for science majors, this course emphasizes topics above the cellular level. Topics will include biodiversity; structure and function of tissues, organs, and systems within plants and animals; evolution and ecology.

BSC 2011
Honors General Biology II ◆
(3 Credits – 3 Hours)
Prerequisite: Admission to the SJR State Honors Program and BSC 2010 and BSC 2010L, with a grade of "C" or higher. Corequisite: BSC 2011L. Primarily for science majors, this course emphasizes topics above the cellular level. Topics will include biodiversity; structure and function of tissues, organs, and systems within plants and animals; evolution and ecology. This course involves significant reading, writing, discussion, challenge problems and/or student participation.

BSC 2011L
Laboratory General Biology II ◆
(1 Credit - 3 Hours)
Corequisite: BSC 2011. Primarily for science majors, this is a laboratory course to provide a hands-on experience to reinforce and supplement material presented in BSC 2011. This course emphasizes topics above the cellular level. Topics will include biodiversity; structure and function of tissues, organs, and systems within plants and animals; evolution and ecology.

BSC 2011L
Honors Laboratory for General Biology II ◆
(1 Credit – 3 Hours)
Prerequisite: Admission to the SJR State Honors Program. Corequisite: BSC 2011. Primarily for science majors, this is a laboratory course to provide a hands-on experience to reinforce and supplement material presented in BSC 2011. This course emphasizes topics above the cellular level. Topics will include biodiversity; structure and function of tissues, organs, and systems within plants and animals; evolution and ecology. This course involves significant reading, writing, discussion, challenge problems and/or student participation.

BSC 2085
Human Anatomy and Physiology I ◆
(3 Credits - 3 Hours)
Corequisite: BSC 2085L. This course is the first part of a two-semester sequence in which students examine human anatomy and physiology through a systems approach based on the interaction between form and function, from the microscopic components of cells and tissues to the organismal level. Emphasis is placed on histology and the integumentary, skeletal, muscular, and nervous systems.

BSC 2085
Honors Human Anatomy and Physiology I ◆
(3 Credits - 3 Hours)
Corequisite: BSC 2085L. Prerequisite: Admission to the SJR State Honors Program. This course is the first part of a two-semester sequence in which students examine human anatomy and physiology through a systems approach based on the interaction between form and function, from the microscopic components of cells and tissues to the organismal level. Emphasis is placed on histology and the integumentary, skeletal, muscular, and nervous systems. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

BSC 2085L
Laboratory for Human Anatomy and Physiology I ◆
(1 Credit - 2 Hours)
Corequisite: BSC 2085. This laboratory course provides an overview of cell structure and function, tissues, and a thorough understanding of the anatomy and physiology of the skeletal, muscular, nervous, and special sense organs of the human body.

BSC 2085L
Honors Laboratory for Human Anatomy and Physiology I ◆
(1 Credit - 2 Hours)
Corequisite: BSC 2085. Prerequisite: Admission to the SJR State Honors Program. This laboratory course provides an overview of cell structure and function, tissues, and a thorough understanding of the anatomy and physiology of the skeletal, muscular, nervous, and special sense organs of the human body. This course involves significant reading, writing, discussion, challenge problems and/or student participation.

BSC 2086
Human Anatomy and Physiology II ◆
(3 Credits - 3 Hours)
Corequisite: BSC 2086L. Prerequisite: BSC 2085 and BSC 2085L with a grade of "C" or higher. This course is a continuation of BSC 2085. It provides students with a thorough understanding of the anatomy and physiology of the cardiovascular, respiratory, lymphatic, immune, digestive, urinary and reproductive systems of the human body.

BSC 2086
Honors Human Anatomy and Physiology II ◆
(3 Credits - 3 Hours)
Corequisite: BSC 2086L. Prerequisite: Admission to the SJR State Honors Program and BSC 2085 and BSC 2085L with a grade of "C" or higher. This course is a continuation of BSC 2085. It provides students with a thorough understanding of the anatomy and physiology of the cardiovascular, respiratory, lymphatic, immune, digestive, urinary and reproductive systems of the human body. This course involves significant reading, writing, discussion, challenge problems and/or student participation.

BSC 2086L
Laboratory for Human Anatomy and Physiology II ◆
(1 Credit - 2 Hours)
Corequisite: BSC 2086. This laboratory course is a continuation of BSC 2085L and provides a thorough understanding of the anatomy and physiology of the cardiovascular, respiratory, lymphatic, immune, digestive, urinary, and reproductive systems of the human body.

BSC 2086L
Honors Laboratory for Human Anatomy and Physiology II ◆
(1 Credit - 2 Hours)
Corequisite: BSC 2086. Prerequisite: Admission to the SJR State Honors Program. This laboratory course is a continuation of BSC 2085L and provides a thorough understanding of the anatomy and physiology of the cardiovascular, respiratory, lymphatic, immune, digestive, urinary, and reproductive systems of the human body. This course involves significant reading, writing, discussion, challenge problems and/or student participation.

CHM 1020
Introduction to Chemistry ◆
(3 Credits - 3 Hours)
This course provides students with an introduction to chemical principles and applications for the non-science major. Students will engage in problem solving and critical thinking while applying chemical concepts. Topics will include the scientific method of problem solving, classification of matter, atomic theory, the periodic table, gases, chemical reactions, energy, and chemical bonds.

CHM 1032
Principles of General Chemistry ◆
(3 Credits - 3 Hours)
Corequisite: CHM 1032L. Prerequisite: Satisfactory score on placement tests or completion of MAT 1033 with a grade of "C" or higher. A course designed primarily for students who are entering the allied health fields. Includes the fundamental laws and theories of inorganic chemistry and an introduction to carbon chemistry. The applications of chemistry to health related fields will be stressed.

CHM 1032L
Lab for Principles of General Chemistry ◆
(1 Credit - 3 Hours)
Corequisite: CHM 1032. An introductory laboratory course designed primarily for students who are entering the allied health fields. Exercises include making qualitative observations and taking quantitative measurements to complement the topics discussed in CHM 1032.

CHM 1045
General Chemistry I ◆
(3 Credits - 3 Hours)
Corequisite: CHM 1045L. Prerequisite: Successful completion of MAC 1105 with a grade of "C" or higher and CHM 1020 or CHM 1032 with a grade of "C" or higher or one year of high school chemistry with a grade of "C" or higher. Students who have completed only one year of high school chemistry are strongly encouraged to take CHM 1020 or CHM 1032 before enrolling in CHM 1045. This course is designed for students pursuing careers in the sciences or who need a more rigorous presentation of chemical concepts than is offered in an introductory course. Students will engage in problem solving and critical thinking while applying chemical concepts. Topics will include the principles of chemistry including atomic theory, electronic and molecular structure, measurement, stoichiometry, bonding, periodicity, thermochemistry, nomenclature, solutions, and the properties of gases.

CHM 1045
Honors General Chemistry I ◆
(3 Credits - 3 Hours)
Corequisite: CHM 1045L. Prerequisite: Admission to the SJR State Honors Program and successful completion of MAC 1105 with grade of "C" or higher and CHM 1020 or CHM 1032 with a grade of "C" or higher, or two years of high school chemistry with a grade of "C" or higher. Students who have completed one year of high school chemistry are strongly recommended to take CHM 1020 or CHM 1032 before enrolling in CHM 1045. This course is designed for students pursuing careers in the sciences or who need a more rigorous presentation of chemical concepts than is offered in an introductory course. Students will engage in problem solving and critical thinking while applying chemical concepts. Topics will include the principles of chemistry including atomic theory, electronic and molecular structure, measurement, stoichiometry, bonding, periodicity, thermochemistry, nomenclature, solutions, and the properties of gases. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

CHM 1045L
Laboratory for General Chemistry I ◆
(1 Credit - 3 Hours)
Corequisite: CHM 1045. A laboratory course for science majors with exercises to demonstrate experimental techniques on the topics discussed in CHM 1045. Topics include atomic theory, nomenclature, chemical bonding, molecular geometry, reaction stoichiometry, behavior of gases, and thermochemistry.

CHM 1045L
Honors Laboratory for General Chemistry I ◆
(1 Credit - 3 Hours)
Corequisite: CHM 1045. A laboratory course for science majors with exercises to demonstrate experimental techniques on the topics discussed in CHM 1045. Topics include atomic theory, nomenclature, chemical bonding, molecular geometry, reaction stoichiometry, behavior of gases, and thermochemistry. This course involves significant reading, writing, discussion, challenge problems and/or student participation.

CHM 1046
General Chemistry II ◆
(3 Credits - 3 Hours)
Prerequisite: CHM 1045 and CHM 1045L with a grade of "C" or higher. Corequisite: CHM 1046L. This course is designed for science majors. Topics include kinetics, acids and bases, equilibrium, thermodynamics, and electrochemistry.

CHM 1046
Honors General Chemistry II ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program and CHM 1045 and CHM 1045L with a grade of "C" or higher. Corequisite: CHM 1046L. This course is designed for science majors. Topics include kinetics, acids and bases, equilibrium, thermodynamics, and electrochemistry. This course requires significant reading, writing, discussion, challenge problems and/or student participation.

CHM 1046L
Laboratory for General Chemistry II ◆
(1 Credit - 3 Hours)
Corequisite: CHM 1046. A laboratory course for science majors with exercises to demonstrate experimental techniques on the topics discussed in CHM 1046. Topics include kinetics, acids and bases, equilibrium, thermodynamics, and electrochemistry.

CHM 1046L
Honors Laboratory for General Chemistry II ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program. Corequisite: CHM 1046L. A laboratory course for science majors with exercises to demonstrate experimental techniques on the topics discussed in CHM 1046. Topics include kinetics, acids and bases, equilibrium, thermodynamics, and electrochemistry. This course requires significant reading, writing, discussion, challenge problems, and/or student participation.

CHM 2210
Organic Chemistry I ◆
(3 Credits - 3 Hours)
Prerequisite: CHM 1045 and CHM 1045L with a grade of "C" or higher. Corequisite: CHM 2210L. Topics include structure and bonding, nomenclature, functional groups, thermochemistry, kinetics, and a mechanistic approach to organic reactions. Alkanes, alkenes, alkynes, alkyl halides, and alcohols will be discussed.

CHM 2210L
Laboratory for Organic Chemistry I ◆
(1 Credit - 3 Hours)
Corequisite: CHM 2210. A laboratory course for science majors with exercises to demonstrate experimental techniques on the topics discussed in CHM 2210. Topics include separation methods and organic reactions.

CHM 2211
Organic Chemistry II ◆
(3 Credits - 3 Hours)
Prerequisite: CHM 2210 and CHM 2210L with a grade of "C" or higher. Corequisite: CHM 2211L, CHM 1046 and CHM 1046L. Topics include radical reactions conjugated alkenes, aromaticity, electrophilic and nucleophilic aromatic substitution, carbonyl chemistry, aldehydes, ketones, carboxylic acids, acid derivatives, enols, aldol condensations, and amines.

CHM 2211L
Laboratory for Organic Chemistry II ◆
(1 Credit - 3 Hours)
Corequisite: CHM 2211. A laboratory course for science majors with exercises

to demonstrate experimental techniques on the topics discussed in CHM 2211. Topics include organic synthesis reactions and mechanisms.

ESC 1000
Earth and Space Science ◆
(3 Credits - 3 Hours)
Using the scientific method, critical thinking skills, data analysis, this course will examine the fundamental processes of the Earth system, composed of an atmosphere, hydrosphere, lithosphere, biosphere, and exosphere, through time. The course will also explore interactions between these spheres, including critical analysis of scientific theories and emphasize Earth's connections with humans.

EVR 1001C
Introduction to Environmental Science and Laboratory ◆
(3 Credits - 5 Hours)
This course is a survey of basic chemical, biological, and physical principles of environmental science and their applications to environmental issues. This course is appropriate for students in a wide range of disciplines or programs.

HUN 1201
Human Nutrition ◆
(3 Credits - 3 Hours)
An introduction to basic principles of nutrition. Emphasis will be on metabolic pathways, nutrient requirements, and nutrition and disease throughout the life cycle.

MCB 2010
Microbiology ◆
(3 Credits - 3 Hours)
Prerequisite: BSC 2086 and BSC 2086L, or BSC 2085 and BSC 2085L and biology and biology lab (BSC 1005 and BSC 1005L, or BSC 2010 and BSC 2010L), all with a grade of "C" or higher. Corequisite: MCB 2010L. A basic study of microorganisms with emphasis on scientific principles within a laboratory framework. The student will be exposed to a variety of laboratory procedures.

MCB 2010
Honors Microbiology ◆
(3 Credits – 3 Hours)
Prerequisite: Admission to the SJR State Honors Program and BSC 2086 and BSC 2086L, or BSC 2085 and BSC 2085L and biology and biology lab (BSC 1005 and BSC 1005L, or BSC 2010 and BSC 2010L), all with a "C" or higher. Corequisite: MCB 2010L. A basic study of microorganisms with emphasis on scientific principles within a laboratory framework. The student will be exposed to a variety of laboratory procedures. This course requires significant reading, writing, discussion, challenge problems, and/or student participation.

MCB 2010L
Laboratory for Microbiology ◆
(1 Credits - 3 Hours)
Corequisite: MCB 2010. Students work in a hands-on setting to learn basic lab skills used routinely by microbiologists including isolation and growth of various microbes and the use of diagnostic tests to identify microorganisms.

MCB 2010L
Honors Laboratory for Microbiology ◆
(1 Credits – 3 Hours)
Corequisite: MCB 2010. Students work in a hands-on setting to learn basic lab skills used routinely by microbiologists including isolation and growth of various microbes and the use of diagnostic tests to identify microorganisms. This course requires significant reading, writing, discussion, challenge problems, and/or student participation.

OCB 1000
Marine Biology ◆
(3 Credits - 3 Hours)
Corequisite: OCB 1000L. This course is a broad introduction to the biology of the seas and its inhabitants. Emphasis will be on the structure, form and function, physiological and behavioral adaptations and a survey of the major local marine organisms and habitat zones. Special attention will be given to unique habitats like coral reefs, estuaries, sea grass beds and mangrove areas. Discussions will include the relationship of the physical, biological and chemical environments to the overall distribution of marine plants and animals. This course will also address man's impact on the ocean environment.

OCB 1000L
Laboratory for Marine Biology ◆
(1 Credits - 2 Hours)
Corequisite: OCB 1000. A hands-on laboratory experience to reinforce and supplement the material presented in OCB 1000. Emphasis will be on structure, function, and physiological adaptations of local marine fauna. Other hands-on experiences will introduce the student to physical and chemical parameters of the marine environment and the inhabitants' adaptation to such. Finally, other hands-on experiences will expose students to humans' impact on the marine environment.

PHY 1020
Introduction to Physics ◆
(3 Credits - 3 Hours)
Prerequisite: Satisfactory score on math placement tests, or completion of MAT 1033 with a grade of "C" or higher. This course offers a comprehensive survey of physics, covering a wide range of topics including motion, Newton's laws, energy, sound, heat, electricity, magnetism, and optics. Emphasizing a conceptual understanding of physics, the course integrates critical thinking skills and real-world applications.

PHY 1020L
Laboratory for Introduction to Physics ◆
(1 Credit - 2 Hours)
Corequisite: PHY 1020. This course is the laboratory that explores the topics covered in the PHY 1020 Introduction to Physics lecture course. The experiments will involve laboratory exercises dealing with kinematics of free fall and projectile motion, forces and motion, laws of conservation of energy and momentum, optical laws of reflection and refraction, the behavior of lenses, basic electric circuits, electromagnetic forces, standing waves, and heat phenomena.

PHY 1053
General Physics I ◆
(3 Credits - 3 Hours)
Corequisite: PHY 1053L. Prerequisite: Completion of MAC 1105 with a grade of "C" or higher. Knowledge of trigonometry is recommended. This course is the first in a two-part series intended for non-physics majors, offering an algebra and trigonometry approach to topics such as kinematics, dynamics, energy, momentum, rotational motion, fluid dynamics, oscillatory motion, and waves. The course fosters analytical and critical thinking skills to promote a scientific understanding of the real world.

PHY 1053L
Laboratory for General Physics I ◆
(1 Credit - 3 Hours)
Corequisite: PHY 1053. This course is the laboratory that explores the topics covered in the General Physics I lecture course. The experiments will involve laboratory exercises dealing with fundamental principles and laws in mechanics, oscillations/waves, and thermodynamics to predict and analyze the behavior of matter and energy in each of these disciplines.

PHY 1053
Honors General Physics I ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to SJR State Honors Program and completion of MAC 1105 with a grade of "C" or higher. Knowledge of trigonometry is recommended. Corequisite: PHY 1053L. This course is the first in a two-part series intended for non-physics majors, offering an algebra and trigonometry approach to topics such as kinematics, dynamics, energy, momentum, rotational motion, fluid dynamics, oscillatory motion, and waves. The course fosters analytical

and critical thinking skills to promote a scientific understanding of the real world. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

PHY 1053L
Honors Laboratory for General Physics I ◆
(1 Credit - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program. Corequisite: PHY 1053. This course is the laboratory that explores the topics covered in the General Physics I lecture course. The experiments will involve laboratory exercises dealing with fundamental principles and laws in mechanics, oscillations/waves, and thermodynamics to predict and analyze the behavior of matter and energy in each of these disciplines. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

PHY 1054
General Physics II ◆
(3 Credits - 3 Hours)
Prerequisite: PHY 1053 and PHY 1053L with a grade of "C" or higher. Corequisite: PHY 1054L. A continuation of PHY 1053. Electricity, magnetism, waves, optics, and modern topics of physics are the areas of study.

PHY 1054L
Laboratory for General Physics II ◆
(1 Credit - 3 Hours)
Corequisite: PHY 1054. This course is the laboratory that explores the topics covered in the General Physics II lecture course. The experiments will involve laboratory exercises dealing with fundamental principles and laws of electricity, magnetism, waves, optics, and modern topics of physics.

PHY 1054
Honors General Physics II ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program and PHY 1053 and PHY 1053L with a grade of "C" or higher. Corequisite: PHY 1054L. A continuation of PHY 1053. Electricity, magnetism, waves, optics, and modern topics of physics are the areas of study. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

PHY 1054L
Honors Laboratory for General Physics II ◆
(1 Credit - 3 Hours)
Prerequisite: Admission to SJR State Honors Program. Corequisite: PHY 1054. This course is the laboratory that explores the topics covered in the General Physics II lecture course. The experiments will involve laboratory exercises dealing with fundamental principles and laws of electricity, magnetism, waves, optics, and modern topics of physics. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

PHY 2048
Physics I with Calculus ◆
(3 Credits - 3 Hours)
Prerequisite: MAC 2311 with a grade of "C" or higher. Corequisite: PHY 2048L. This calculus-based course serves as the first in a two-part series, covering topics like kinematics, dynamics, energy, momentum, rotational motion, fluid dynamics, oscillatory motion, and waves. Designed for science and engineering majors, the course integrates critical thinking, analytical skills, and real-world applications.

PHY 2048L
Laboratory for Physics I with Calculus ◆
(1 Credit - 3 Hours)
Corequisite: PHY 2048. This course is the laboratory that explores the topics covered in the Physics I with Calculus lecture course. The experiments will involve laboratory exercises dealing with fundamental principles and laws in mechanics, oscillations/waves, and thermodynamics to predict and analyze the behavior of matter and energy in each of these disciplines.

PHY 2048
Honors Physics I with Calculus ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program and completion of MAC 2311 with a grade of "C" or higher. Corequisite: PHY 2048L. This calculus-based course serves as the first in a two-part series, covering topics like kinematics, dynamics, energy, momentum, rotational motion, fluid dynamics, oscillatory motion, and waves. Designed for science and engineering majors, the course integrates critical thinking, analytical skills, and real-world applications. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

PHY 2048L
Honors Laboratory for Physics I with Calculus ◆
(1 Credit - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program. Corequisite: PHY 2048. This course is the laboratory that explores the topics covered in the Physics I with Calculus lecture course. The experiments will involve laboratory exercises dealing with fundamental principles and laws in mechanics, oscillations/waves, and thermodynamics to predict and analyze the behavior of matter and energy in each of these disciplines. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

PHY 2049
Physics II with Calculus ◆
(3 Credits - 3 Hours)
Prerequisite: PHY 2048 and PHY 2048L with a grade of "C" or higher. Corequisite: PHY 2049L. A continuation of PHY 2048, including the areas of sound, light, charged particle motion in electric and magnetic fields, circuits, magnetism, and nuclear physics.

PHY 2049L
Laboratory for Physics II with Calculus ◆
(1 Credit - 3 Hours)
Corequisite: PHY 2049. This course is the laboratory that explores the topics covered in the PHY 2049 Physics II with Calculus lecture course, including the areas of sound, light, charged particle motion in electric and magnetic fields, circuits, magnetism, and nuclear physics.

PHY 2049
Honors Physics II with Calculus ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program and PHY 2048 and PHY 2048L with a grade of "C" or higher. Corequisite: PHY 2049L. A continuation of PHY 2048, including the areas of sound, light, charged particle motion in electric and magnetic fields, circuits, magnetism, and nuclear physics. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

PHY 2049L
Honors Laboratory for Physics II with Calculus ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program. Corequisite: PHY 2049. This course is the laboratory that explores the topics covered in the PHY 2049 Physics II with Calculus lecture course, including the areas of sound, light, charged particle motion in electric and magnetic fields, circuits, magnetism, and nuclear physics. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

ZOO 2010
Zoology ◆
(3 Credits - 3 Hours)
Prerequisite: BSC 1005 and BSC 1005L or BSC 2010 and BSC 2010L with grades of "C" or higher. Corequisite: ZOO 2010L. A study of major phyla of the animal kingdom with emphasis upon the structure, function and evolutionary relationships.

ZOO 2010L
Laboratory for Zoology ◆
(1 Credit - 3 Hours)
Corequisite: ZOO 2010.

SOCIAL SCIENCE

AMH 1070
Florida Heritage ◆
(3 Credits - 3 Hours)
A survey of the culture, economy, government, geography, history, and natural resources of Florida. Emphasis is given to the rapid progress in the development of agriculture, industry, and education during the past 20 years.

AMH 2010
United States History to 1877 ◆
(3 Credits - 3 Hours)
In this course, students will examine United States history from before European contact to 1877. Topics will include but are not limited to Indigenous peoples, the European background, the Colonial Period, the American Revolution, the Articles of Confederation, the Constitution, issues within the new republic, sectionalism, manifest destiny, slavery, the American Civil War, and Reconstruction.

AMH 2010
Honors United States History to 1877 ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program. In this course, students will examine United States history from before European contact to 1877. Topics will include but are not limited to Indigenous peoples, the European background, the Colonial Period, the American Revolution, the Articles of Confederation, the Constitution, issues within the new republic, sectionalism, manifest destiny, slavery, the American Civil War, and Reconstruction. This course requires significant reading, writing, discussion, challenge problems, and/or student participation.

AMH 2020
United States History Since 1877 ◆
(3 Credits - 3 Hours)
In this course, students will trace the history of the United States from the end of the Reconstruction Era to the contemporary era. Topics will include but are not limited to the rise of industrialization, the United States' emergence as an actor on the world stage, constitutional amendments and their impact, the Progressive Era, World War I, the Great Depression and New Deal, World War II, issues of civil and minority rights, the Cold War, and the United States since 1989.

AMH 2020
Honors United States History Since 1877 ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program. In this course, students will trace the history of the United States from the end of the Reconstruction Era to the contemporary era. Topics will include but are not limited to the rise of industrialization, the United States' emergence as an actor on the world stage, constitutional amendments and their impact, the Progressive Era, World War I, the Great Depression and New Deal, World War II, issues of civil and minority rights, the Cold War, and the United States since 1989. This course requires significant reading, writing, discussion, challenge problems, and/or student participation.

ANT 2000
General Anthropology ◆
(3 Credits - 3 Hours)
In this course, students will learn the foundations of anthropology as the study of human variation in its biological, social, and cultural dimensions. Students will learn about anthropological concepts, principles, and methodologies to understand and explore past and present human behavior. They will apply the anthropological approach to analyze issues pertaining to past and contemporary cultures, and develop intellectual skills and habits to understand behavioral, social and cultural issues from multiple disciplinary perspectives.

ANT 2100
Introduction to Archaeology ◆
(3 Credits – 3 Hours)
This course provides an introduction to archaeology from a scientific perspective. It will explain how archaeologists locate, analyze, and interpret evidence from the past with the goal of better understanding our human past. The history of archaeology is traced from its origins to its emergence as a scientific discipline within anthropology.

ANT 2511
Human Origins ◆
(3 Hours - 3 Credits)
This course provides a survey of human biological and cultural evolution from early pre-Pleistocene hominids through the development of agriculture, with the goal of better understanding our human heritage.

CLP 2140
Abnormal Psychology ◆
(3 Credits - 3 Hours)
Prerequisite: PSY 2012 with a grade of "C" or higher. An introduction to mental illness, its definition, classification, and treatment. Includes the historical background of abnormal psychology, the major conceptualizations, and the nature and descriptions of psychological disorders. Assumes knowledge of concepts typically learned in an introductory psychology course.

DEP 2002
Child Psychology ◆
(3 Credits - 3 Hours)
Prerequisite: PSY 2012 or DEP 2004 with a grade of "C" or higher. A study of the development of the child from birth to the adolescent years. Emphasizes developmental and psychosocial aspects of childhood, including heredity, environment, maturational, intellectual, physical, psychological, and social determinants of a child's world.

DEP 2004
Human Growth and Development ◆
(3 Credits - 3 Hours)
A study of the interaction of physical growth, health, cognition, family, and social networks in the development of persons of all ages. All psychological aspects of development through the life cycle are considered.

DEP 2004
Honors Human Growth and Development ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program. A study of the interaction of physical growth, health, cognition, family, and social networks in the development of persons of all ages. All psychological aspects of development through the life cycle are considered. This course requires significant reading, writing, discussion, challenge problems, and/or student participation.

DEP 2302
Adolescent Psychology ◆
(3 Credits - 3 Hours)
Prerequisite: PSY 2012 or DEP 2004 with a grade of "C" or higher. A topical approach to the study of adolescence, including social, emotional, physical, and cognitive development. Content includes developmental patterns associated with identity, puberty, thought, and moral judgment relating to biological and environmental influences with suggested applications for parents, teachers, counselors, nurses, and social workers.

DEP 2402
Psychology of Adulthood and Aging ◆
(3 Credits - 3 Hours)
Prerequisite: PSY 2012 or DEP 2004 with a grade of "C" or higher. This course

examines the physical, social, cognitive, and psychological characteristics of individuals during early, middle, and late adulthood. The course will investigate key events in adult and family life such as marriage, choice of occupation, parenthood, and retirement and the aging process.

ECO 1931
Financial Literacy ◆
(1 Credit - 1 Hour)
This course will provide students with skills, knowledge, and problem solving techniques. It uses core personal finance literacy concepts that can be incorporated into students' daily lives. Topics include budgeting, financial goal setting, saving and investment, responsible use of credit, rent and mortgages, taxes and insurance.

ECO 2013
Macroeconomics ◆
(3 Credits - 3 Hours)
In this course, students will learn the foundations of macroeconomics as the branch of economics concerned with how decision-making, in an environment of scarcity, maps onto the aggregate economy. Students will examine theories and evidence related the following core set of topics: national income determination, money, monetary and fiscal policy, macroeconomic conditions, international trade and the balance of payments, and economic growth and development.

ECO 2013
Honors Macroeconomics ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program. In this course, students will learn the foundations of macroeconomics as the branch of economics concerned with how decision-making, in an environment of scarcity, maps onto the aggregate economy. Students will examine theories and evidence related the following core set of topics: national income determination, money, monetary and fiscal policy, macroeconomic conditions, international trade and the balance of payments, and economic growth and development. This course requires significant reading, writing, discussion, challenge problems, and/or student participation.

ECO 2023
Microeconomics ◆
(3 Credits - 3 Hours)
A study of an economy's components, namely, households, firms and the markets in which they interact. A strong emphasis is placed on the competitive (or lack of) environment of the firm, a deeper examination of market outcomes and government intervention.

ECO 2023
Honors Microeconomics ◆
(3 Credits – 3 Hours)
Prerequisite: Admission to the SJR State Honors Program. A study of an economy's components, namely, households, firms and the markets in which they interact. A strong emphasis is placed on the competitive (or lack of) environment of the firm, a deeper examination of market outcomes and government intervention. This course requires significant reading, writing, discussion, challenge problems, and/or student participation.

POS 1041
United States Federal Government ◆
(3 Credits - 3 Hours)
In this course, students will investigate how the national government is structured and how the American constitutional republic operates. It covers the philosophical and historical foundations of American government, including but not limited to the Declaration of Independence, the United States constitution and all its amendments, and The Federalist Papers. The course examines the branches of government and the government's laws, policies, and programs. It also examines the ways in which citizens participate in their government and ways their government responds to citizens.

POS 1041
Honors United States Federal Government ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program. In this course, students will investigate how the national government is structured and how the American constitutional republic operates. It covers the philosophical and historical foundations of American government, including but not limited to the Declaration of Independence, the United States constitution and all its amendments, and The Federalist Papers. The course examines the branches of government and the government's laws, policies, and programs. It also examines the ways in which citizens participate in their government and ways their government responds to citizens. This course requires significant reading, writing, discussion, challenge problems, and/or student participation.

POS 1112
State and Local Government ◆
(3 Credits - 3 Hours)
Activities and functions of state, regional, county, city, and special district governments are studied. Florida's constitution and structure, parties, politics, elections, interest/ethnic groups, public opinion and governmental services are examined and compared with those of other states in the U.S. Important environmental and growth management problems are analyzed.

POT 2002
Introduction to Political Theory ◆
(3 Credits - 3 Hours)
This course aims to provide students with an overview of some of the main traditions and themes in Western political theory/philosophy. Students will be exposed to some classic pieces in this field and will receive training in how to approach and work with theoretical and philosophical texts from various periods. In engaging with these texts the course attempts to tackle some of the fundamental questions (and some exemplary answers) that pervade the realm of politics: What is the purpose of government, what is the nature of democracy and how do individuals relate to the communities they live in? The students will engage with the authors in their respective historical contexts and examine to what extent these classic texts can still guide our perception of current political affairs.

PSY 2012
General Psychology ◆
(3 Credits - 3 Hours)
In this course, students will gain an introduction to the scientific study of human behavior and mental processes. Topics may be drawn from historical and current perspectives in psychology.

PSY 2012
Honors General Psychology ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program. In this course, students will gain an introduction to the scientific study of human behavior and mental processes. Topics may be drawn from historical and current perspectives in psychology. This course involves significant reading, writing, discussion, challenge problems, and/or student participation.

SYG 1000
Introduction to Sociology ◆
(3 Credits - 3 Hours)
In this course, students will gain an understanding of the basic sociological concepts and vocabulary, including the methodological tools, sociological perspectives, and scientific procedures used by social scientists to collect data and conduct research. Topics generally include: society and culture, institutions, socialization, social control, crime, social change, social groups, sex and gender, race and ethnicity, family, social class and social mobility, and population.

SYG 1000
Honors Introduction to Sociology ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program. In this course, students will gain an understanding of the basic sociological concepts and vocabulary, including the methodological tools, sociological perspectives, and scientific procedures used by social scientists to collect data and conduct research. Topics generally include: society and culture, institutions, socialization, social control, crime, social change, social groups, sex and gender, race and ethnicity, family, social class and social mobility, and population. This course involves significant reading, writing, discussion, challenge problems and/or student participation.

SYG 1430
Marriage and the Family ◆
(3 Credits - 3 Hours)
A functional course designed to help the student understand and manage the problems and adjustments encountered in marriage and family living. Emphasis is placed on preparation for marriage, spouse selection, the causes and resolution of marital conflict, sexual roles, parenthood, family finance management, and an exploration of current changes in values and structures.

SYG 2010
Contemporary Social Problems ◆
(3 Credits - 3 Hours)
This course covers the nature, development, and dimensions of social problems in contemporary society. Problems are studied from three perspectives: symbolic interaction theory, functionalist theory, and conflict theory.

WOH 1012
World Civilization to 1600 ◆
(3 Credits - 3 Hours)
A survey course tracing the development, growth, and interaction of civilized societies from prehistoric times to the 17th century, showing their influences on each other and their contributions to human culture.

WOH 1012
Honors World Civilization to 1600 ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program. A survey course tracing the development, growth, and interaction of civilized societies from prehistoric times to the 17th century, showing their influences on each other and their contributions to human culture. This course requires significant reading, writing, discussion, challenge problems, and/or student participation.

WOH 1022
World Civilization Since 1600 ◆
(3 Credits - 3 Hours)
A survey of civilization from the 17th century to the present. Topics include industrialization, nationalism, imperialism, the emergence of the modern state system, U. S. constitutional development, revolutions and wars of the 20th century, and the present world structure.

WOH 1022
Honors World Civilization Since 1600 ◆
(3 Credits - 3 Hours)
Prerequisite: Admission to the SJR State Honors Program. A survey of civilization from the 17th century to the present. Topics include industrialization, nationalism, imperialism, the emergence of the modern state system, U.S. constitutional development, revolutions and wars of the 20th century, and the present world structure. This course requires significant reading, writing, discussion, challenge problems, and/or student participation.

All courses are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System (SCNS). For more information on SCNS and the transferability of courses, see page 203.

Unless indicated otherwise, registration in the courses listed below is limited to those students who have been admitted to the Florida School of the Arts.

+ Open to any SJR State student
◆ Meets A.A. degree requirements

VISUAL ART

FOUNDATION

ARH 1006
Visual Ideas: Portfolio Seminar ◆
(1 Credit – 1 Hour)
A comprehensive study of aesthetics and the historical development of art intended to jump-start the visual arts student's awareness of the art world, focusing on the development of the modernist aesthetic and its evolution into postmodern and contemporary art. An exit grade of "C" or higher is required.

ART 1201C
Two - Dimensional Design + ◆
(3 Credits - 6 Hours)
A studio investigation of basic visual phenomena in a two-dimensional design. Emphasis on the formal elements (line, shape, value, color, and texture) and the principles of design in the organization of the picture plane. An exit grade of "C" or higher is required.

ART 1300C
Drawing I + ◆
(3 Credits - 6 Hours)
Structured to develop basic drawing techniques by concentration on the elements of descriptive drawing – line, proportion, composition and full value – using a wide range of media. An exit grade of "C" or higher is required.

ART 1301C
Drawing II ◆
(3 Credits - 6 Hours)
Prerequisites: ART 1201C and ART 1300C or permission of the instructor. Drawing primarily with the live model in a variety of media. Develop and refine your eye for drawing and composition by exploring contour, gesture, mass, proportion, light and shade. The elements of shape, form, space, line, texture, unity, harmony, repetition, proportion, balance and movement will also be emphasized. An exit grade of "C" or higher is required.

ART 2203C
Three - Dimensional Design ◆
(3 Credits - 6 Hours)
Prerequisites: ART 1201C and ART 1300C or permission of the instructor. A focus on the structural and spatial exploration of the three-dimensional form through a variety of media with an emphasis on design and construction. Students will develop presentation skills and craftsmanship, while formulating problem-solving skills and concept generation. An exit grade of "C" or higher is required.

ART 2955
Portfolio Presentation: Capstone Seminar ◆
(1 Credit - 1 Hour)
Prerequisites: DIG 2580 and GRA 1413 or permission of instructor. A focused development of presentation skills through a cohesive and professional print and digital portfolio that meets requirements for graduation. Also includes completion of self-directed studio work and preparation for a graduating exhibition that completes the Florida School of the Arts Visual Arts curriculum.

DIG 1000
Introduction To Digital Media + ◆
(3 Credits - 3 Hours)
A digital foundation course that explores the principles of creative design. Basic concepts of visual communication are examined as well as the practical application of design principles. Introduction of Apple OSX platform, digital lab equipment as well as the study of Adobe Creative Suite software will be addressed. An exit grade of "C" or higher is required.

DIG 2580
Digital Portfolio: Portfolio Seminar ◆
(1 Credit - 1 Hour)
Prerequisite: GRA 1413 or permission of instructor. Through lecture research and demonstration this course will address strategies for exploring and creating dynamic digital portfolios. Students will study contemporary practices used to effectively present both digital and analog works. Students will research and produce a showcase portfolio of current works as well as preparing a developmental portfolio presentation. An exit grade of "C" or higher is required.

GRA 1413
Professional Development: Portfolio Seminar ◆
(1 Credit - 1 Hour)
Development of career exploration skills as well as preparation of a resume and cover letter, job interviewing exercises and presentation of portfolio. An exit grade of "C" or higher is required.

PGY 1800
Photographic Techniques + ◆
(3 Credits - 3 Hours)
An introduction to observational seeing through an exploration of two-dimensional design issues particular to photography. The class focuses on composition of images within the camera, then selecting photographs that most effectively convey the objectives of the experiment. Successful students learn the value of light to photography while distinguishing the contrast between a photograph that is about subject rather than simply of it. Fundamental functions of the camera, creative exposure techniques, effective composition and critique strategies will be emphasized.

STUDIO ART

ART 1400C
Printmaking I + ◆
(3 Credits - 6 Hours)
An introduction to the medium of printmaking, concentrating on the technical production of various print media including: Intaglio, relief, monoprint and serigraphy (screen printing). Emphasis on drawing, design, and understanding the technical procedures and the investigation of the positive/negative concepts, as well as color printing. An exit grade of "C" or higher is required.

ART 1540C
Watercolor I + ◆
(3 Credits - 6 Hours)
Techniques in the use of the watercolor medium in wet and dry methods, composition, and matting of paintings. An exit grade of "C" or higher is required.

ART 2164C
Mixed Media ◆
(3 Credits - 6 Hours)
Prerequisite: ART 2203C. An exploration of the boundaries between the flat two-dimensional image and three-dimensional space by researching relevant artists from the Modern to present and by creating artwork utilizing a variety of media and formats. Students will develop presentation skills and craftsmanship, while formulating problem-solving skills and concept

generation. An exit grade of "C" or higher is required.

ART 2401C
Printmaking II ◆
(3 Credits - 6 Hours)
Prerequisite: ART 1400C. Techniques in a selected printing area or mixed media. Personal expression through printing methods. Emphasis on edition printing. An exit grade of "C" or higher required.

ART 2500C
Painting I ◆
(3 Credits - 6 Hours)
Fundamentals of basic painting methods emphasizing values, composition, paint handling, and understanding of materials. Students will work from nature to develop eye-hand coordination with the paint medium. An exit grade of "C" or higher is required.

ART 2501C
Painting II ◆
(3 Credits - 6 Hours)
Prerequisite: ART 2500C or permission of the instructor. Further development of the fundamentals of composition developing toward color usage and orchestration. An exit grade of "C" or higher is required.

ART 2701C
Sculpture I ◆
(3 Credits – 6 Hours)
Prerequisite: ART 2203C. An exploration of traditional and contemporary sculpture utilizing techniques of subtraction, addition, construction and substitution. Emphasis will also be placed on conceptual development. An exit grade of "C" or higher is required.

ART 2702C
Sculpture II ◆
(3 Credit – 6 Hours)
Prerequisite: ART 2701C. Student will refine and expand on their craft in regards to the techniques learned in Sculpture I, and work to develop a personal and contemporary aesthetic. An exit grade of "C" or higher is required.

ART 2750C
Ceramics I + ◆
(3 Credits – 6 Hours)
An introduction to the techniques and concepts of traditional and contemporary ceramics. Kiln and glaze technology, hand building, wheel throwing, and glaze technology will be studied in depth. An exit grade of "C" of higher is required.

ART 2751C
Ceramics II ◆
(3 Credits – 6 Hours)
Prerequisite: ART 2750C or permission of the instructor. A continuation in the methods and techniques introduced in Ceramics I. Development of a contemporary expression within the ceramics tradition is encouraged. An exit grade of "C" or higher is required.

ART 2930C
Special Topics in Art ◆
(1 - 3 Credits)
Investigation of topics of current interest to the student or instructor. Application to do work in Special Problems must be made to the instructor who is to direct the study. A design of the study must be presented to the instructor and approved by the Dean of Florida School of the Arts prior to the new semester. May be repeated 3 times for credit. An exit grade of "C" or higher is required.

GRAPHIC DESIGN/NEW MEDIA

DIG 1115C
Digital Imaging ◆
(3 Credits - 6 Hours)
Prerequisite: DIG 1000. An overview of raster based imaging materials and processing methods. Visual communication will be explored through the application of design principles and formal research. This course offers students a foundation for incorporating digital tools into their creative process as well as exploring the dynamics of visual communication. Students will prepare images by taking advantage of various output options including print, web, and multimedia presentation.

GRA 1206C
Typography: Expressive and Experimental ◆
(3 Credits - 6 Hours)
Prerequisite: DIG 1000. Basic concepts and vocabulary of typography with an emphasis on the expressive potential of the letter form. Students will explore various typographic constructs and principles in a study of how the organization, stress and shape of letter forms can affect the ideas they are meant to communicate. An exit grade of "C" or higher is required.

DIG 2100
Web Design ◆
(3 Credits - 3 Hours)
Introduces the fundamentals of interactive design for electronic publishing. Students practice critical organizational methods as well as basic design and coding skills to create standard compliant web projects. An exit grade of "C" or higher is required.

GRA 2190C
Traditional and Digital Illustration ◆
(3 Credits - 6 Hours)
This studio/critique based course surveys the broad field of illustration through projects that explore areas such as advertising/promotional design, editorial art and narrative illustration. Students will examine current aesthetics, using both traditional and digital means in order to communicate ideas through visual imagery. An exit grade of "C" or higher is required.

GRA 2195C
Advertising Design ◆
(3 Credits - 3 Hours)
Prerequisites: DIG 1115C, GRA 1206C. An overview of design for advertising including historical perspectives, business of ad design, and the design processes used to create such things as magazine ads, package design, editorial pages and various other commercial media. Students investigate marketing design and branding strategies through process oriented experiments and client interaction. An exit grade of "C" or higher is required.

DIG 2282C
Time Based Media ◆
(3 Credits - 6 Hours)
Prerequisite: DIG 1000. An introduction to the four-dimensional fundamentals of time based media. Aspects and elements of time will be emphasized along with basic production techniques and project planning. Aesthetic, historical, and conceptual issues will also be addressed as students explore time based media as an expressive and communicative art form. An exit grade of "C" or higher is required.

DIG 2284C
Imagery in Motion ◆
(3 Credits - 6 Hours)
Prerequisite: DIG 2282C. Concentration on experimental video and digital imaging methods. Using non-linear editing techniques and contemporary presentation concepts, students expand on previous studies of process development as they work toward incorporating various digital media into the production of technically accomplished and conceptually rich moving image projects. An exit grade of "C" or higher is required.

DIG 2930C
Special Topics in New Media Design ◆
(1 - 3 Credits)
An independent study course designed to enable a student to pursue a studio or research project not covered in his area of specialization. The direction of the study will be formulated with the instructor. Application to do work in special problems must be made to the instructor who is to direct the study. A design of the study must be presented to the instructor and approved by the Dean of Florida School of the Arts prior to the new semester. May be repeated 3 times for credit. An exit grade of "C" or higher is required.

NEW MEDIA/PHOTOGRAPHY
PGY 1201C
Media Lighting Techniques ◆
(3 Credits - 6 Hours)
Prerequisite: PGY 1800. Effective quality of light is at the heart of every effective photographic image. Using the five characteristics of light as a foundation, this course examines artificial and natural sources in and out of the studio. Successful students learn to effectively design lighting solutions through placement, modification and balance of light for a variety of imaging objectives.

PGY 2107C
Large Format Photography ◆
(3 Credits - 6 Hours)
Prerequisite: PGY 1800 and permission of instructor. Development of photographic vision and technical craft through the introduction and use of large format materials. Discussion and coursework will focus on the aesthetic possibilities and technical strategies of large format photography in relationship to various contemporary genres, as well as the role of scale, presentation and installation of the photographic print will be addressed. An exit grade of "C" or higher is required.

PGY 2220C
Commercial Photography ◆
(3 Credits - 6 Hours)
Overview of studio practices and location photography with an emphasis on the commercial context of image making. This will include both creative and technical assignments that challenge the student to sync vision with technique, beauty with function and content with craft. A exit grade of "C" or higher is required.

PGY 2905C
Special Topics in Photography ◆
(1 - 3 Credits)
An independent study course designed to enable a student to pursue a studio or research project not covered in the area of specialization. The direction of the study will be formulated with the instructor. Application to do work in the special problems must be made to the instructor who is to direct the study. A design of the study must be presented to the instructor and approved by the Dean of Florida School of the Arts prior to the new semester. May be repeated 3 times for credit. An exit grade of "C" or higher is required.

ANIMATION
ART 2370C
Drawing for Animation ◆
(3 Credits - 6 Hours)
Prerequisite: DIG 2300C Principles of 2D Animation. This course is designed to develop the drawing skills that are most essential for effective animation. Life drawings accompanied by a study of structural anatomy in both humans and animals will be the emphasis of the course curriculum. Additional topics will include sequential drawing, the role of exaggeration and simplification in character development, composition of scenic elements as related to the development of mood and context, and the development of a smooth animated sequence.

DIG 2300C
Principles of 2D Animation ◆
(3 Credits - 6 Hours)
Prerequisite: ART 1300C Drawing I. Studio/lecture based course applies methods for traditional animation using digital tools. Students will examine hand-drawn animation techniques and principles.

DIG 2341C
Introduction to Motion Graphics and Compositing ◆
(3 Credits - 6 Hours)
Prerequisite: DIG 2300C Principles of 2D Animation. This course focuses on digital post-production used for film animation, video, digital media and the web. It identifies production methods, compositing and sophisticated motion control for high-quality, two-dimensional animation. Focus is placed on digital media components, video tape and screen outputs for special and specialty projects while exploring foundations for computer-aided digital production. The topics of work flow issues and the variety of design and production vehicles will be addressed.

DIG 2437C
Storytelling ◆
(3 Credits - 6 Hours)
Prerequisite: ART 1300C Drawing I. This course is for students majoring in animation and game art. It introduces the conceptual structure and design of visual storytelling. Students will learn principles of animation, mechanics, cinematics, character development, structure of story and adapting movement for the animation medium.

DANCE

STUDIO TECHNIQUE: BALLET
DAA 1200
Fundamentals of Ballet (non-majors) + ◆
(1 Credit - 2 Hours)
Study of classical ballet technique with emphasis on positions, barre exercises, center work and vocabulary.

DAA 1201
Fundamentals of Ballet II (non-majors) ◆
(2 Credits - 3 Hours)
Prerequisite: DAA 1200 or permission of instructor. Continuation of the study of classical ballet technique with emphasis on strength and technical development.

DAA 1204
Ballet I ◆
(2 Credits - 5 Hours)
Prerequisite: Audition and acceptance into Florida School of the Arts Dance program or permission of the instructor. This is the first of four leveled technique courses in the study of classical and contemporary ballet. An emphasis will be placed on correct alignment of the body, a progressive development of positions and barre exercises, as well as the application of classical ballet terminology at a beginner/intermediate level.

DAA 1205
Ballet II ◆
(2 Credits - 5 Hours)
Prerequisite: DAA 1204 or permission of the instructor. A continuation of first year ballet instruction to include more advanced and complex movement sequences within the study of classical and contemporary ballet with the emphasis still being placed on correct alignment, strength and technical development at an intermediate level.

DAA 2206
Ballet III ◆
(2 Credits - 5 Hours)
Prerequisite: DAA 1205 or permission of the instructor. Second year ballet technique courses include more evolved technical instruction with

intensification of barre and center exercises for development of strength and form. An emphasis will be placed on the artistic quality of movement and phrasing at an intermediate/advanced level.

DAA 2207
Ballet IV ◆
(2 Credits - 5 Hours)
Prerequisite: DAA 2206 or permission of the instructor. A continuation of second year ballet instruction with emphasis on artistry, stylization and performance at an intermediate/advanced level.

DAA 2220
Point Technique ◆
(2 Credits - 3 Hours)
The study of intermediate/advanced ballet technique with special emphasis on point work through classical ballet exercises at barre, in center and traveling. Exercises will be specifically designed to increase foot and ankle strength, balance and fast footwork.

DAA 2230
Men's Technique ◆
(2 Credits - 3 Hours)
The study of intermediate/advanced ballet technique with special emphasis on the traditional role of the male dancer through a classically designed ballet class, which incorporates barre exercises, work in center and movement across the floor.

DAA 2250
Partnering ◆
(2 Credits - 3 Hours)
Prerequisite: DAA 1204 or DAA 1104 or have instructor permission. This course introduces the intermediate dancer to the classical pas de deux in ballet technique and the foundational elements explored within contemporary partnering. In this class, students learn their respective roles in a partnership and learn the balance, coordination and artistic line involved in dancing with another person.

DAA 2670
Ballet Repertory ◆
(2 Credits - 3 Hours)
Study and preparation of classical and contemporary ballet variations with emphasis on style, musical interpretation and dramatic intensity. Video reconstruction skills will be implemented to prepare students for professional company life.

STUDIO TECHNIQUE: CONTEMPORARY

DAA 1100
Fundamentals of Contemporary Dance I (non-majors) + ◆
(1 Credit - 2 Hours)
This course will introduce students to the fundamentals of contemporary dance techniques. An emphasis will be placed on proper placement, execution of skills, and combinations of simple steps. Students will develop an artistic awareness of how to use movement as an expression of idea through physicality, kinesthetic self-awareness and development of musicality.

DAA 1104
Contemporary Dance I ◆
(2 Credits - 5 Hours)
Prerequisite: Audition and acceptance into the Florida School of the Arts Dance program or permission of instructor. First year exploration of modern dance technique as well as contemporary approaches will be emphasized. The course includes, but is not limited to, proper body alignment, mechanics of breathing and phrasing, and verbal and movement vocabulary.

DAA 1101
Intermediate Contemporary Dance (non-majors) + ◆
(2 Credits - 2 Hours)
This course will develop students' skills in contemporary dance. Further development of basic technique skills will be gained as well as a special emphasis on retention and performance abilities. Continued focus on proper placement, execution of skills, and performing combinations of more advanced steps will be introduced in this course. Students will continue to develop an artistic awareness of how to use movement as an expression of idea through physicality, kinesthetic self-awareness and development of musicality. This course is open to the public; however, the student must have instructor permission or have taken Fundamentals of Contemporary Dance. The student with prior dance training may use the first day of class to audition for placement without having previously taken Fundamentals of Contemporary Dance.

DAA 1105
Contemporary Dance II ◆
(2 Credits - 5 Hours)
Prerequisite: DAA 1104 or permission of the instructor. A continuation of first year modern dance instruction. Study will include, but is not limited to, proper body alignment, mechanics of breathing and phrasing, and verbal and movement vocabulary.

DAA 2106
Contemporary Dance III ◆
(2 Credits - 5 Hours)
Prerequisite: DAA 1105 or permission of the instructor. Intermediate study and exploration of modern dance technique and its theoretical concepts within the traditions of modern and contemporary dance. It emphasizes the mastery of modern dance technique at an intermediate level. The course combines movement artistry, quality, and phrasing with intermediate technical skills.

DAA 2107
Contemporary Dance IV ◆
(2 Credits - 5 Hours)
Prerequisite: DAA 2106 or permission of the instructor. A continuation of second year contemporary instruction that combines movement artistry, quality, and phrasing with advanced technical skills.

DAA 2661
Contemporary Repertory ◆
(2 Credits - 3 Hours)
Prerequisite: DAA 1105 or permission of the instructor. The study and preparation of modern dance repertory with concentration on phrasing, musical interpretation, and style. Video reconstruction skills will be emphasized to prepare students for professional company life.

STUDIO TECHNIQUE: JAZZ

DAA 1500
Fundamentals of Jazz Dance (non-majors) + ◆
(1 Credit - 2 Hours)
Exploration of basic/intermediate jazz dance technique and principles. An exit grade of "C" or higher is required for musical theater majors.

DAA 1501
Fundamentals of Jazz II (non-majors) ◆
(2 Credits - 3 Hours)
Prerequisite: DAA 1500 or permission of instructor. The continuation of jazz technique with emphasis on vocabulary, steps, and technical development.

DAA 2504
Jazz Dance I ◆
(2 Credits - 3 Hours)
Prerequisite: Audition and acceptance into the Florida School of the Arts Dance program or permission of instructor. Introduction to the fundamental vocabulary and technique of basic jazz dance, positions, weight distribution, arm movements, and syncopation.

DAA 2505
Jazz Dance II ◆
(2 Credits - 3 Hours)
Prerequisite: DAA 2504 or permission of the instructor. A continuation of the study of styles found in jazz dance technique with an emphasis on intermediate/advanced dance vocabulary and technique.

STUDIO TECHNIQUE: TAP

DAA 1520
Fundamentals of Tap Dance (non-majors) + ◆
(1 Credit - 2 Hours)
The study of elementary/intermediate tap dance technique with emphasis on vocabulary, steps, rhythm, and dynamics. An exit grade of "C" or higher is required for musical theater majors.

DAA 2521
Tap Dance I ◆
(2 Credits - 3 Hours)
Prerequisite: Audition and acceptance into the Florida School of the Arts Dance program or permission of instructor. Beginning level tap technique course with emphasis on steps, rhythm, dynamics, style, phrasing, and performance.

STUDIO TECHNIQUE: MUSICAL THEATER

DAA 2544
Musical Theater Dance Styles ◆
(1 Credit - 2 Hours)
Prerequisite: DAA 1501 or DAA 2504. This course, designed for the musical theater major, presents basic styles of dance, which commonly occur in musical theater.

DAA 2562
Musical Theater Tap ◆
(1 Credit - 2 Hours)
Prerequisite: DAA 1520 or DAA 2521. Designed for the musical theater major, presents a study of tap technique directed to the needs of theatrical performance with emphasis on style, musical interpretation, rhythm, and dynamics.

DAA 2570
Musical Theater Jazz ◆
(1 Credit - 2 Hours)
Prerequisite: DAA 1500 or DAA 2504. A continued study of jazz technique with an emphasis on theatrical jazz dance repertory. Student will learn a diverse selection of stylized jazz dances to advance the student's skills as performed within an ensemble and the theatrical environment.

CREATIVE STUDIES

DAA 1000
Fundamentals of Dance (non-majors) + ◆
(1 Credit - 2 Hours)
This course will introduce the non-major student to the basic elements of dance performance. This is a course intended for beginning students interested in obtaining the fundamentals skills necessary to perform a variety of dance techniques including: ballet, jazz, contemporary, among others. The course will involve significant physical study with additional work including viewing filmed or live works, discussion, performance, lecture, and writing projects. This class is open to the public.

DAA 1680
Dance Ensemble I ◆
(1 Credits - 3 Hours)
Prerequisite: Audition and acceptance into the Florida School of the Arts Dance program or permission of instructor. The study, preparation and performance of dance works with emphasis on technique, style, stage presence and professionalism as required for work in a dance ensemble. May be repeated once for credit.

DAA 1681
Dance Ensemble II ◆
(1 Credits - 3 Hours)
Prerequisite: DAA 1680 or permission of instructor. A continuation of study, preparation and performance of dance works with emphasis on technique, style, stage presence and professionalism as required for work in a dance ensemble. May be repeated once for credit.

DAA 2393C
World Dance +
(2 Credits - 2 Hours)
The study of cultural expressions of dance from across the globe. Students will study basic elements of specific artistic and cultural dances selected from a wide range of regions around the world. Study will include reviewing historical and contemporary works. Students will interact with course material through physical practice, lectures, video, discussions, and creative projects.

DAA 2610
Dance Composition and Improvisation I ◆
(2 Credits - 3 Hours)
This course includes individual experience in developing movement phrases and combinations based on solving problems within a form and a movement framework, as well as the movement imagery designed to develop the dancer's creative imagination.

DAA 2611
Dance Composition and Improvisation II ◆
(2 Credits - 3 Hours)
Prerequisite: DAA 2610. A continuation of instruction to further develop students' application of improvisational practices and compositional tools and devices. Students will create, perform, and critique choreographic work.

DAA 2743
Pilates Body Conditioning + ◆
(2 Credits - 2 Hours)
This course will introduce students to Pilates mat-work, standing exercises, and apparatus work. Through physical practice and discussion, this course emphasizes the development of core stability, flexibility, kinesthetic self-awareness, proper alignment and coordination to improve physical performance. Students completing the course will also leave with a working knowledge of Pilates repertory and physical training fundamentals as preparation to pursue Pilates and/or physical trainer certifications.

DAA 2750
Dance Conditioning + ◆
(2 Credits - 2 Hours)
This course will prepare dancers with the physical and intellectual understanding to increase performance demands and longevity in professional dance careers. Through physical exercises, lectures and reading assignments, this course emphasizes training methods with special attention given to the concerns of the dancer: core stability, flexibility, kinesthetic self-awareness, proper alignment, coordination, nutrition, and basic anatomical understanding.

DAA 2933
Special Topics in Dance ◆
(1-3 Credits)
Directed study in an area of dance and the dance profession. Application to do special studies must be made to the instructor who is to direct the study. A design of the study must be presented to the instructor and approved by the Dean of Florida School of the Arts prior to the new semester. May be repeated 3 times for credit.

DANCE THEORY

DAN 2100
Survey of Dance + ◆
(3 Credits - 3 Hours)
This course is designed as an introduction into the multicultural world of

dance. It will include information on history, cultures and performance aspects of dance as an art form.

DAN 2600
Music for Dance ◆
(2 Credits - 2 Hours)
Introductory course in music to introduce the dancer to the vocabulary and theoretical foundations of music.

MUSICAL THEATER

MUN 1641
Musical Theater Vocal Company ◆
(1 Credit - 3 Hours)
An ensemble designed for musical theater majors, or permission of instructor to improve vocal and physical presentation skills. A variety of musical styles including musical theater excerpts will be studied and performed. May be repeated 3 times for credit.

MUS 1010
Student Recital
(0 Credits -1 Hour)
Corequisites: MVV 1011, MVV 1311, MVV 1312, MVV 2321, MVV 2322, MVV 1111 or permission of instructor. Performance element for Applied Voice Prep, Applied Major Voice and Class Voice I. Performance of literature studied in class for an audience. May include special lectures by faculty and guest artists. May be repeated.

MUS 2905
Special Problems in Musical Theater ◆
(1 - 3 Credits)
Directed studies in the area of music. Application to do work in special problems must be made to the instructor who is to direct the study. A design of the study must be presented to the instructor and approved by the Dean of Florida School of the Arts prior to the new semester. May be repeated 3 times for credit.

MUT 1001
Fundamentals of Music Theory + ◆
(2 Credits - 2 Hours)
Beginning theory instruction for the student with little or no music theory study. Introduction to music fundamentals, including notation, terminology, major key signatures, simple meters and time signatures, major scales, and intervals. An exit grade of "C" or higher is required for musical theater majors.

MUT 1111
Music Theory I ◆
(3 Credits - 3 Hours)
Prerequisites: MUT 1001 and MVK 1111. Corequisite for musical theatre majors: MUT 1221. A continuation of MUT 1001 with emphasis placed on mastery of music fundamentals. May be repeated once for credit.

MUT 1221
Sight Singing I ◆
(1 Credit - 2 Hours)
Prerequisite: MUT 1001 and MVK 1111. Corequisite for musical theater majors: MUT 1111. A study of sight singing and ear training with emphasis upon diatonic materials.

MVK 1111
Class Piano I + ◆
(2 Credits - 2 Hours)
Beginning piano instruction for the student with little or no piano study. Emphasis is on general musicianship and basic piano techniques developing the student's ability to play and enjoy music on the elementary level. May be repeated once for credit. An exit grade of "C" or higher is required for musical theater majors.

MVV 1111
Class Voice I + ◆
(2 Credits - 2 Hours)
Voice production fundamentals: correct posture, use and control of breath, placement and development of tone, diction (vowels and consonants), and vocal expression. May be repeated once for credit. An exit grade of "C" or higher is required for musical theater majors.

APPLIED MUSIC - PRIVATE INSTRUCTION

MVV 1011
Applied Voice Prep ◆
(1 Credit - 1/2 Hour) (2 Credits - 1 Hour)
Permission of the instructor. Private instruction on the elementary level. Emphasis on developing strong foundation fundamentals of breath control and correct vowel placement. Foundation work accomplished through use of musical theater and classical literature. An exit grade of "C" or higher is required for musical theater majors. May be repeated for credit.

MVV 1011L
Applied Voice Prep Lab
(0 Credit - 1 Hour)
Group technique lab component for students taking Applied Voice Prep. Emphasis given to warming up body and voice for singing. Technical exercises will be used to strengthen voice and prepare the student for a day of vocal use.

MVV 1311
Applied Major Voice I ◆
(1 Credit - 1/2 Hour) (2 Credits - 1 Hour)
Prerequisite: MVV 1011 or permission of the instructor. Second semester of private instruction on the elementary level. Continued foundation work with emphasis on developing strong fundamental principles of breath control and correct vowel placement. Foundations accomplished through works in musical theater and classical literature. An exit grade of "C" or higher is required for musical theater majors. May be repeated for credit.

MVV 1311L
Applied Major Voice I Lab
(0 Credit - 1 Hour)
Group technique lab component for students taking Applied Major Voice I. Emphasis given to warming up body and voice for singing. Technical exercises will be used to strengthen voice and prepare the student for a day of vocal use.

MVV 1312
Applied Major Voice II ◆
(1 Credit - 1/2 Hour) (2 Credits - 1 Hour)
Prerequisite: MVV 1311 or permission of the instructor. Third semester of private instruction on the elementary-intermediate level. Continued emphasis on developing a strong foundation of breath control and correct vowel placement. Foundations accomplished through works in musical theater, pop and classical literature. An exit grade of "C" or higher is required for musical theater majors. May be repeated for credit.

MVV 1312L
Applied Major Voice II Lab
(0 Credit - 1 Hour)
Group technique lab component for students taking Applied Major Voice II. Emphasis given to warming up body and voice for singing. Technical exercises will be used to strengthen voice and prepare the student for a day of vocal use.

MVV 2321
Applied Major Voice III ◆
(1 Credit - 1/2 Hour) (2 Credits - 1 Hour)
Prerequisite: MVV 1312 or permission of the instructor. Fourth semester of private instruction on the elementary-intermediate level. A continuation

of skills studied in MVV 1312. A course designed to further develop the student's musical voice potential while exploring vocal techniques used in musical theater styles of singing. Concepts are practiced through use of musical theater, classical, and commercial music literature. An exit grade of "C" or higher is required for musical theater majors. May be repeated for credit.

MVV 2321L
Applied Major Voice III Lab
(0 Credit - 1 Hour)
Group technique lab component for students taking Applied Major Voice III. Emphasis on expansion of techniques given to warming up body and voice for singing. Technical exercises will be used to strengthen voice and prepare the student for a day of vocal use.

MVV 2322
Applied Major Voice IV ◆
(1 Credit - 1/2 Hour) (2 Credits - 1 Hour)
Prerequisite: MVV 2321 or permission of the instructor. Fifth semester of private instruction on an intermediate level. A course designed to further develop the student's musical voice potential via foundations established in MVV 2321 of breath control and correct vowel placement. Continued exploration of musical theater styles of singing. Concepts are practiced through use of musical theater, classical, and commercial music literature. An exit grade of "C" or higher is required for musical theater majors. May be repeated for credit.

MVV 2322L
Applied Major Voice IV Lab
(0 Credit - 1 Hour)
Group technique lab component for students taking Applied Voice IV. Emphasis on expansion of techniques given to warming up body and voice for singing. Technical exercises will be used to strengthen voice and prepare the student for a day of vocal use.

PRODUCTION DESIGN

TPA 1040
Costume Design + ◆
(3 Credits - 3 Hours)
Examination of the fundamental techniques of costume design through a series of projects focusing on script/ character analysis, design principles, figure drawing, and visualization of design concept. Emphasis will be placed on imagination and problem solving shown through the design process and growth in both costume rendering and presentation.

TPA 1200
Introduction to Production/Design + ◆
(3 Credits - 3 Hours)
An introduction to the theories and methods used in script analysis, research design, construction and operation of production elements. Twenty hours of production work required. For non-production/design majors.

TPA 1202
Stagecraft ◆
(3 Credits - 3 Hours)
Development of technical craft skills necessary to work in the Production/Design shops for theatre. An introduction to equipment, tools, and materials basic to the stage and shops are applied to the interpretation of drawings and their execution. For Production/Design majors only or permission of the instructor.

TPA 1232
Costume Construction I + ◆
(3 Credits - 3 Hours)
An introduction to the study of theatrical costume construction techniques through work with costume shop equipment, basic hand and machine sewing, flat pattern drafting/ draping, textiles/dyeing, and basic costume crafts. Emphasis is placed on the various skills needed to interpret a two-dimensional design into a three dimensional costume for the stage.

TPA 1233
Costume Pattern Drafting and Draping + ◆
(3 Credits - 3 Hours)
Prerequisite: TPA 1232 or permission of instructor. The study and creation of advanced costume patterns through the use of flat patterning and draping techniques.

TPA 1248
Stage Makeup ◆
(3 Credits - 3 Hours)
Development of the skills needed to analyze and reproduce various physical characteristics in theatrical makeup. Stage makeup kit required.

TPA 1260
Sound for the Stage ◆
(3 Credits - 3 Hours)
Prerequisite: TPA 1200, or TPA 1202, or permission of the instructor. An introduction to production sound design and basic audio equipment and systems. The course includes recording techniques, sound reinforcement, sound and sound effects research and sound composition for the stage and production.

TPA 1274
Stage Properties ◆
(2 Credits - 2 Hours)
An introduction to the design and creation of practical scenic and hand properties. The course includes specialty tools, materials, crafting techniques and detailed processes required for the creation and or reproduction of stage properties.

TPA 1342
Drafting for the Stage ◆
(3 Credits - 3 Hours)
Prerequisite: TPA 1200 or TPA 1202 or permission of instructor. Creation of drafted plates to build or implement scenery into shops and the theatrical spaces is fundamental. The course includes an introduction to the tools and techniques of drafting as well as theatrical standards, architectural research, and preparation of plates showing construction details and perspectives.

TPA 1600
Stage Management ◆
(3 Credits - 6 Hours)
Prerequisite: Permission of the instructor is required for all non-majors. This course is the study and application of the methods and techniques used by the stage manager in all phases of the production process. The class is structured to mirror the production process beginning with pre-production and moving through auditions, rehearsals, production meetings, performances and strike. Particular focus is given to the stage manager's role as the communication and organizational hub of the production in each phase of the process. In addition to class assignments, students serve as stage managers, assistant stage managers or production assistants in a realized production from the semester's production schedule.

TPA 1603
Stage Management Preparation and Practice ◆
(1 Credit - 2 Hours)
Prerequisite: TPA 1600 Stage Management. Working on an actual stage management project from the production schedule, the student will be mentored through each phase of the rehearsal process. Particular emphasis is given to problem-solving, clarity in both written and verbal communication skills, organization and use of the production book, and managing rehearsals, performances and meetings. Class projects will also include developing a resume, portfolio, and stage management kit. This course will be repeated 2 times for credit.

TPA 2000
Theatre Design Basics + ◆
(3 Credits - 3 Contact Hours)
An exploration of the fundamental elements and principles of design and how they are applied in designing for the stage. Emphasis is placed on the visualization and execution of design concepts.

TPA 2063
Principles of Scenic Design ◆
(3 Credits - 3 Hours)
Prerequisite: TPA 1342 or permission of instructor. An introduction to beginning design techniques. The course includes design process, research, design development, sketching, ground plan, perspective, rendering and model building.

TPA 2070
Scene Painting ◆
(3 Credits - 3 Hours)
The study and application of stage scenery painting techniques. Involves equipment, preparation, color mixing, faux finish techniques, and lay-out. May be repeated 2 times for credit.

TPA 2071
Theatre Rendering Techniques + ◆
(3 Credits - 3 Hours)
This course explores specific rendering techniques used to create images that enhance visual communication in scenic, lighting, or costume design.

TPA 2083
Special Problems in Production/Design ◆
(1 - 3 Credits)
A directed study in the area of Production/Design that provides for independent work related to the profession. Application to do work in special problems must be made to the instructor who is to direct the study. A design of the study must be presented to the instructor and approved by the Dean of Florida School of the Arts prior to the new semester. May be repeated 3 times for credit.

TPA 2091
Advanced Design ◆
(1 Credits - 3 Hours)
Course demonstrates, through theory and practice for the student, a clear process in developing a design idea all the way through to executing the final presentation. May be repeated 3 times for credit.

TPA 2220
Lighting Design ◆
(3 Credits - 3 Hours)
An introduction to the design and use of light on stage. Coursework includes experimentation with properties of light, research and script analysis in regards to light design and application, practical work with stage lighting instruments and programming control boards, drafting the plot and developing lighting paperwork, and the development of lighting techniques for theatre and dance.

TPA 2290L
Theatre Production Laboratory ◆
(1 Credit - 6 Hours)
The development of practical work in the various areas of theatrical production including pre-production and running crew assignments. May be repeated 4 times for credit.

TPA 2343
CAD for Theatre ◆
(3 Credits - 3 Hours)
Prerequisite: TPA 1208 or permission of instructor. Projects oriented course covering fundamental through advanced material in computer aided drafting and design and its application for theatre.

THEATER

THE 1925
Play Production ◆
(1 Credit - 2 Hours)
Practical work in many of the aspects of play production, including performance, technical and costuming work, performance assignments, running crews, stage management, and directing. May be repeated three times for credit.

THE 2300
Dramatic Literature + ◆
(3 Credits - 3 Hours)
Prerequisite: ENC 1101 with a grade of "C" or higher OR permission of Instructor. Using Aristotle's Poetics as a foundation for script analysis, the class analyzes selected masterpieces of dramatic literature from a wide variety of genres. For selected texts the class examines not only the dramatic structure of the specific text, but also the relationship between the theatre and the society which shapes it. This relationship is examined by exploring the historical and social contexts in which the playwrights were working.

THE 2304
Script Analysis ◆
(3 Credits - 3 Hours)
This course will provide students with a formalist analysis of a script. Students will develop the skills to analyze a script in a way that will help them better communicate and collaborate their ideas working as designers and technicians.

TPP 1120
Improvisation for the Theater ◆
(3 Credits - 3 Hours)
This class explores the use of creativity and imagination, engaging the actor in a wide variety of theatre games and improvisations in a laboratory setting.

TPP 1514
Stage Movement for the Actor ◆
(3 Credits - 3 Hours)
Development of the kinesthetic awareness and skills necessary for actors to function successfully in rehearsal and performance. The class uses a variety of physical skills and exercises to develop the actor's sense of balance, relaxation, coordination and control.

TPP 1710
Stage Voice I + ◆
(3 Credits - 3 Hours)
Analysis, interpretation, and presentation of selections from various types of literature, including narrative prose, poetry, and drama.

TPP 1810
Stage Speech I ◆
(3 Credits - 3 Hours)
This class provides actors the foundation skills necessary to care for and develop the full potential of their speaking voice. The physical mechanisms of speech and the corresponding vocabulary are identified. Core breathing techniques are introduced and explored. Proper articulation of speech sounds is emphasized through ongoing drills and exercises. Habits, techniques and concepts introduced in this class will be developed further in subsequent speech courses.

TPP 1811
Stage Speech II ◆
(3 Credits - 3 Hours)
Prerequisite: TPP 1810 with a grade of "C" or higher. Building on the foundation skills and vocabulary introduced in TPP 1810, TPP 1811 is a continuation of the development of the actor's voice to its full potential. Proper breath support and articulation continue to be particular points of focus. The International Phonetic Alphabet is introduced and used to

correct speech problems as well as lay a foundation for dialect work. Cold reading and impromptu speaking skills are developed through exercises and assignments which allow the students to gain practical experience in front of an audience with minimal preparation time. Finally, the elements of a vocal warm-up are introduced and explored. Students learn to prepare warm-ups tailored to the needs of their own voices.

TPP 2100
Introduction to Acting + ◆
(3 Credits - 3 Hours)
A survey course for non-acting majors in methods and acting techniques used to develop and perform a role from the text.

TPP 2110
Acting I ◆
(3 Credits - 6 Hours)
An introduction to the concepts, principles, and skills needed to create and effectively communicate a believable character to an audience. The class places heavy emphasis on using the given circumstances as the source for character choices, using simple objectives to play identifiable actions, and using appropriate and effective rehearsal techniques to achieve performance goals. Students will apply the above concepts to specific acting challenges in a variety of monologue and scene performances. The class culminates in combining a written character analysis with a performance of a scene from the selected text.

TPP 2111
Acting II ◆
(3 Credits - 6 Hours)
Prerequisite: TPP 2110 with a grade of "C" or higher. This course augments the creative process of character development by applying the principles of Stanislavsky through the use of in-class discussion, studio exercises, monologue and scene application.

TPP 2118
Acting III ◆
(3 Credits - 6 Hours)
Prerequisite: TPP 2111 with a grade of "C" or higher. A.A. students must have permission of the instructor. Scene study. Utilizing selections from contemporary plays, the focus of the course is placed upon character-to-character relationships within the context of a scene.

TPP 2119
Acting IV ◆
(3 Credits - 6 Hours)
Prerequisite: TPP 2111 with a grade of "C" or higher. Beginning with an examination of the nature of "style" itself, this class presents actors with an approach to tackling the challenges of the period text. Techniques for unlocking the particular style of a text are explored and then applied to the performance of selected scenes from several different periods: Greek, Elizabethan and Comedy of Manners. The course identifies and provides solutions for the acting challenges specific to each of these styles. Additionally, the class explores how the techniques learned in approaching these styles can be more widely applied to other non-realistic styles of theatre.

TPP 2141
Acting in Shakespeare ◆
(3 Credits - 3 Hours)
Prerequisite: TPP 2111 with a grade of "C" or higher. An introduction to the concepts, principles, and skills needed to bring the characters of Shakespeare to life on the stage. Following the precepts of John Barton in Playing Shakespeare, this course focuses on how to use the hidden directions given by Shakespeare in the text to unlock character choices. Specific analysis techniques and poetic terminology are introduced and examined as they relate to characterization. Application of these techniques will be presented in several performances of Shakespearean scenes and monologues.

TPP 2220
Audition Techniques ◆
(3 Credits - 3 Hours)
Prerequisite: TPP 2111 with a grade of "C" or higher or permission of the instructor. This class is built on the following premise: successful auditions begin with a clear understanding of the casting process and the development of a healthy relationship to that process. Starting with selecting successful material, the class moves chronologically through each phase of the audition experience with a focus on practical preparation. All of the "business" aspects of auditioning will be covered including resumes, headshots, interviews, unions and self-management. To demonstrate mastery of the material each student will prepare and perform a well-rounded audition package selected to highlight his or her unique strengths.

TPP 2260
Acting for the Camera ◆
(3 Credits - 3 Hours)
Prerequisite: TPP 2111 with a grade of "C" or higher. An approach designed for the actor to meet the demands of working in television or film.

TPP 2261
Acting for the Camera II ◆
(3 Credits - 3 Hours)
Prerequisite: TPP 2260 with a grade of "C" or higher. This course develops the fundamental screen acting technique acquired in TPP 2260. Students engage in advance individual exercises and group scene work to build a video portfolio that exhibits a wide range of performance abilities suitable for professional presentation.

TPP 2300
Play Directing ◆
(3 Credits - 3 Hours)
Prerequisities: TPP 2111 Acting II and permission of instructor or THE 2304 Script Analysis with a grade of "C" or higher. An introductory course examining the fundamental elements of the director's craft. Interpretation and communication skills are explored at length, along with developing the directorial concept into practical aspects of stage composition, movement, rhythm, and overall story and dramatic action.

TPP 2803
Stage Speech IV ◆
(3 Credits - 3 Hours)
Prerequisite: TPP 2812 with a grade of "C" or higher. Study of regional and foreign dialects for character impersonation.

TPP 2812
Stage Speech III ◆
(3 Credits - 3 Hours)
Prerequisite: TPP 1811 with a grade of "C" or higher. Special and advanced work in the interpretation and presentation of various forms of literature, particularly classical selections.

TPP 2280
Special Problems in Acting ◆
(1 - 3 Credits)
This course is designed to provide individual investigation into an area of acting of particular interest or need to the student. Application to do work in special problems must be made to the instructor who is to direct the study. A design of the study must be presented to the instructor and approved by the Dean of Florida School of the Arts prior to the new semester. This course may be repeated 3 times for credit.