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**INDIAN RIVER  
STATE COLLEGE**

**2010 • 2011 CATALOG**

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**INDIAN RIVER STATE COLLEGE**

3209 Virginia Avenue • Fort Pierce, FL 34981-5596

Toll-free 1-866-792-4772 (IRSC)

(772) 462-4772 • Fax (772) 462-4796

Chastain Campus.....(772) 283-6550

Dixon Hendry Campus .....(863) 824-6000

St. Lucie West Campus..... (772) 879-4199

Mueller Campus.....(772) 569-0333

Treasure Coast Public Safety Training Complex..... (772) 462-7150

Indiantown Education Center..... (772) 597-5130

IRSC Blackburn Educational Building..... (772) 462-7100

## ***In Dedication To Our Students...***

- *You are a student preparing for life...*  
*IRSC is a resource in your learning for life...as we have been for over a million students before you.*
- *We are people providing a learning environment, and an unparalleled spirit to support you in reaching your fullest potential.*  
*Thoughtful people... giving of themselves the best they know how.*  
*State of the art equipment and facilities... enabling you to learn faster, better and with enduring value.*  
*An "up with student" spirit... so great and contagious it will move you and always be with you.*
- *What you will find is... learning in an environment where you are encouraged, challenged, and championed...*  
*Encouraged to explore and grow... discovering who you are and building the foundation for your life.*  
*Challenged to stretch... to never, never, never give up in becoming the very best you can be.*  
*Championed to reach...performance and goals you might not have thought possible before joining our family.*

## ***We Commit To...***

- *Sustain our leading edge...*  
*we choose to continually assess our institutional relevance by sensing and responding to both the present and the future.*
- *Perpetually determine student skill and knowledge requirements in a fast changing world...*  
*and as a result optimize education within a superior learning environment.*
- *Create an all-encompassing environment where learning complements rather than complicates our lives...*  
*strengthening IRSC's entrepreneurial and innovative posture in the communities we serve.*
- *Assure a culture throughout the College...*  
*where the dignity of every individual is honored and respected by deeds and subject-focused communication.*
- *A Strong and Viable College...*  
*through disciplined processes that provide for a consistent endeavor for excellence through intellectual investigation, interpersonal communication and pride in a set of shared values.*

***... One Student at a Time***

## DISTRICT BOARD OF TRUSTEES

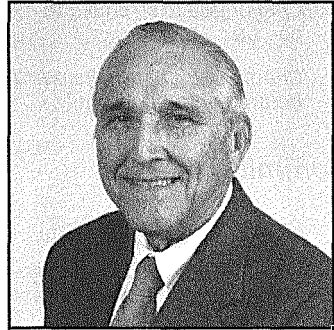
*The District Board of Trustees of Indian River State College is appointed by the Governor of the State of Florida and represents Indian River, Martin, Okeechobee, and St. Lucie counties.*

- J. "Hal" Roberts, Chair..... St. Lucie County  
T. René Perez, Vice Chair..... Indian River County  
Werner Bols..... Martin County  
Vicki H. Davis..... Martin County  
Cheryl Kirton..... Okeechobee County  
Samuel L. Patterson..... St. Lucie County  
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Board of Trustees

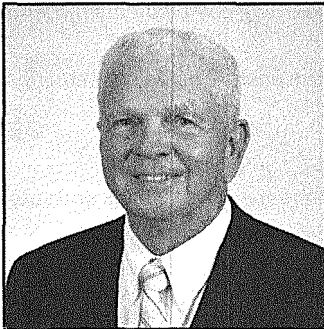
## DISTRICT BOARD OF TRUSTEES



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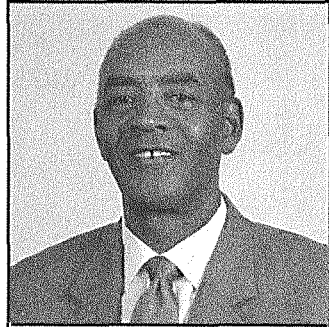


VICKI H. DAVIS  
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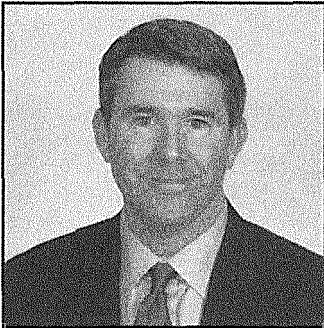




**CHERYL KIRTTON**  
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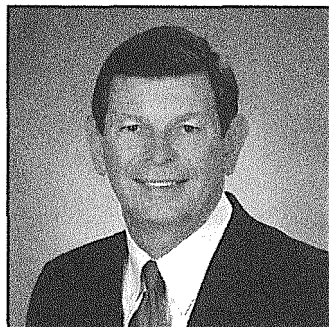
**GERALD T. RODEN**  
Indian River County



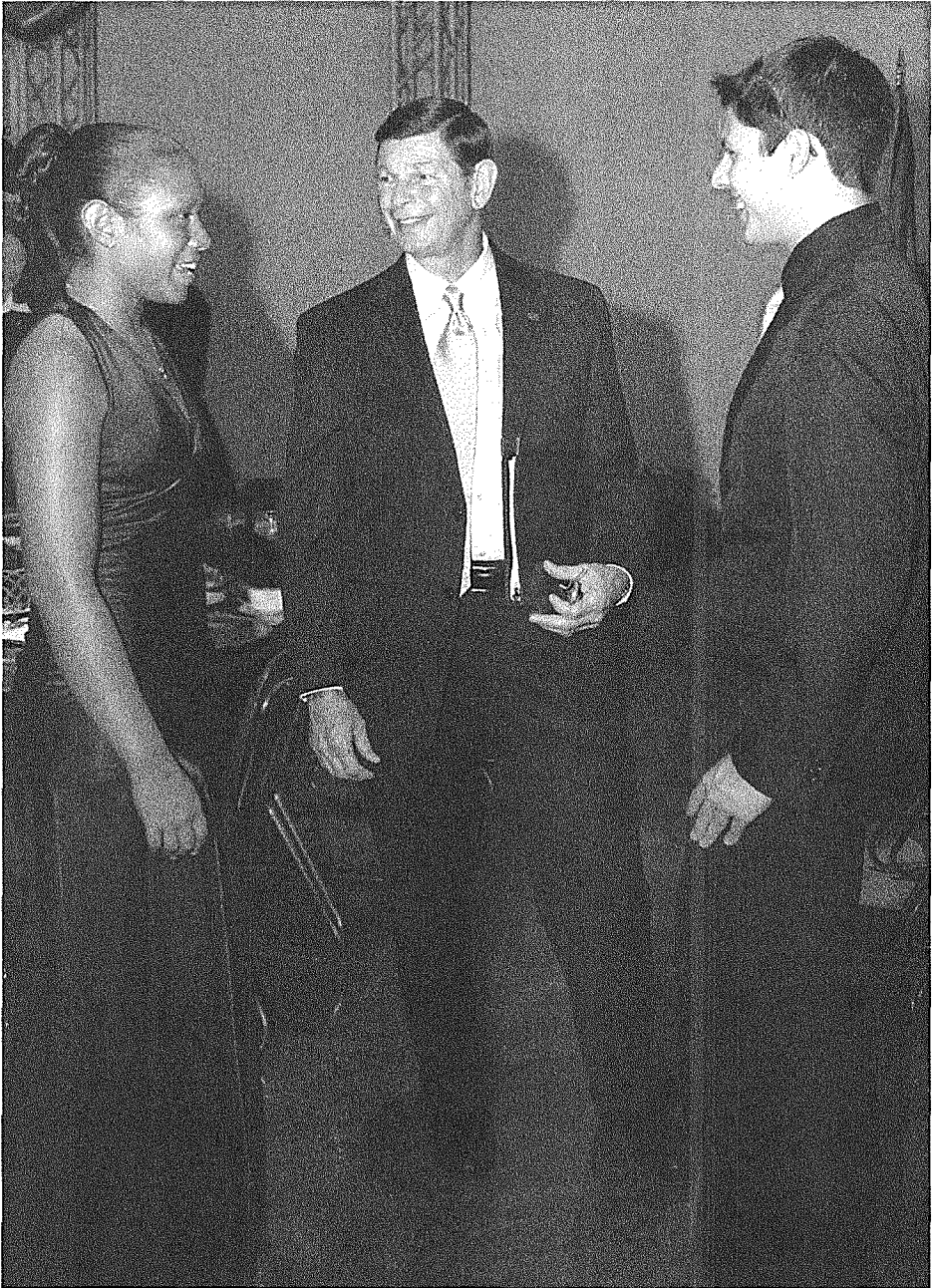
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**EDWIN R. MASSEY, Ph.D.**  
President





**INDIAN RIVER STATE COLLEGE**  
Office of the President

Welcome to Indian River State College!

Fifty years ago, on September 6, 1960, Indian River Junior College held its first class in a small, military barrack in Fort Pierce, Florida. Over the next five decades, the College would welcome tremendous growth, experience mission shifts, undergo identity changes and continuously improve the manner in which higher education is provided throughout the Treasure Coast. Through it all, one thing has remained constant: putting student success first.

As the College celebrates 50 Years of Innovation, the IRSC administration, faculty and staff remain fully dedicated to educational excellence and sustaining our mission to positively impact your lives by making possibilities a reality.

Indian River State College is here to help you reach your career and personal goals by offering a wide array of educational opportunities. Our four-year degree programs will allow you to earn a Bachelor's Degree close to where you live and work. IRSC's Associate in Arts Degree will prepare you for seamless transition into Baccalaureate studies. You can gain valuable technical skills with an Associate in Science Degree, Associate in Applied Science Degree or one of our many certification programs. Whichever program is right for you, IRSC stands ready to fulfill your educational dreams.

To assist our students in finding the pathway that is right for them, IRSC offers over 150 program options which will enable you to achieve your greatest potential and establish a firm foundation for your future academic and career pursuits. Additionally, I encourage you to work with the many Student Services professionals in our Educational Services Division. They are eager to assist you in any way possible. Please come and visit with us in person so you can learn more about how IRSC can enhance your life.

The past 50 years have been an amazing story of progress and innovation for Indian River State College, and the next half-century holds even greater promise for our College, community and students. Once again, I welcome you to IRSC and wish you the very best in the 2010-2011 Academic Year.

Sincerely,

A handwritten signature in black ink that reads 'Edwin R. Massey'.

Edwin R. Massey, Ph.D.  
President

**FALL 2010 ACADEMIC CALENDAR**

July 8, Thursday	First day to register for Fall 2010. New Student Orientations throughout the semester. For a schedule, visit <a href="http://www.irsc.edu">www.irsc.edu</a> .
July 15, Thursday	Priority deadline for Baccalaureate applications with transcripts and supporting documentation.
August 16, Monday	New Faculty report.
August 17, Tuesday	Returning Faculty report.
August 19, Thursday	Registration Deadline - Last day to pay without late fees.++ Internet Course Orientation 4:00 p.m., 5:00 p.m., and 6:00 p.m., Kight Center V-110, Main Campus.
August 20, Friday	Late Registration begins. \$30 late fee on or after this date. Drop/Add begins.
August 23, Monday	Classes begin, Fall Semester and Fall "A" Term.
August 27, Friday	Drop/Add ends - Priority date to apply for Fall 2010 Graduation. Last day to pay all fees. NO REFUNDS after this date. Educational Services and Cashiers Office closes at 5:00 p.m. Web Services are available until 9:00 p.m.
September 6, Monday	*HOLIDAY - Labor Day.
September 20, Monday	12 Week Express Session classes begin.
October 18, Monday	Last day of classes, Fall "A" Term.
October 19, Tuesday	Classes begin, Fall "B" Term.
November 1, Monday	First day to register for Spring 2011.
November 8, Monday	Last day to withdraw from full semester classes with a "W".
November 11, Thursday	*HOLIDAY - Veteran's Day.
November 24, 25 & 26 Wednesday, Thursday & Friday	*HOLIDAY - Thanksgiving.
December 10, 13, 14, 15, & 16 Friday, Monday, Tuesday, Wednesday, & Thursday	Semester Exams.
December 16, Thursday	Grades due/entered by 8:00 p.m.
December 17, Friday	Grades available online.
December 20 - 31, Monday - Thursday	*HOLIDAY - Winter Break.

\*Official Holiday — All offices closed. No classes.

++Students who have not paid their tuition and fees or received payment coverage from other sources will be dropped from their classes and must pay a late fee and re-register.



## SPRING 2011 ACADEMIC CALENDAR

December 3, Friday	Priority deadline for Baccalaureate applications with transcripts and supporting documentation.
January 3, Monday	Registration Deadline - Last day to pay without late fees. ++ New Student Orientations continue throughout the semester. For a schedule, visit <a href="http://www.irsc.edu">www.irsc.edu</a> . All Faculty report.
January 4, Tuesday	Late Registration begins. \$30 late fee on or after this date. Drop/Add begins. Internet Course Orientation 4:00 p.m., 5:00 p.m., and 6:00 p.m., Kight Center V110, Main Campus.
January 5, Wednesday	Classes begin, Spring Semester and Spring "A" Term.
January 11, Tuesday	Drop/Add ends. Last day to pay all fees. NO REFUNDS after this date. Priority date to apply for Spring 2011 Graduation.
January 17, Monday	*HOLIDAY - Martin Luther King, Jr. Day.
February 2, Wednesday	12 Week Express Session classes begin.
February 11, Friday	Professional Enhancement Day (no classes, day and night).
March 2, Wednesday	Last day of classes, Spring "A" Term.
March 3, Thursday	Classes begin, Spring "B" Term.
March 21, Monday	Last day to withdraw from full semester classes with a "W".
March 28 - April 1 Monday-Friday	*HOLIDAY - Spring Break
April 4, Monday	First day to register for Summer I and Summer II Terms.
April 6, Wednesday	Deadline to apply for Spring 2011 Commencement Ceremony participation.
April 27, 28, 29, & May 2, 3 Wednesday, Thursday, Friday, Monday & Tuesday	Semester Exams.
May 3, Tuesday	Grades due/entered by 8:00 p.m.
May 4, Wednesday	Grades available online.
May 6, Friday	Commencement.

\*Official Holiday — All offices closed. No classes.

++Students who have not paid their tuition and fees or received payment coverage from other sources will be dropped from their classes and must pay a late fee and re-register.

**SUMMER I 2011 ACADEMIC CALENDAR**

April 8, Friday	Priority deadline for Baccalaureate applications with transcripts and supporting documentation.
May 4, Wednesday	Registration Deadline - Last day to pay without late fees.++ New Student Orientations continue throughout the semester. For a schedule visit <a href="http://www.irsc.edu">www.irsc.edu</a> .
May 5, Thursday	Late Registration begins. \$30 late fee on or after this date. Drop/Add begins. Internet Course Orientation 4:00 p.m., 5:00 p.m., and 6:00 p.m., Kight Center V-110, Main Campus. Faculty report.
May 9, Monday	Classes begin.
May 11, Wednesday	Drop/Add ends. Last day to pay all fees. NO REFUNDS after this date. Priority date to apply for Summer I & II Graduation.
May 30, Monday	*HOLIDAY - Memorial Day.
June 6, Monday	Last day to withdraw from a class with a "W".
June 21 & 22 Tuesday & Wednesday	Semester Exams.
June 23, Thursday	Grades due/entered by 8:00 p.m.
June 24, Friday	Grades available online.

\*Official Holiday – All offices closed. No classes.

++Students who have not paid their tuition and fees or received payment coverage from other sources will be dropped from their classes and must pay a late fee and re-register.

## SUMMER II 2011 ACADEMIC CALENDAR

May 19, Thursday	Priority deadline for Baccalaureate applications with transcripts and supporting documentation.
June 23, Thursday	New Student Orientations throughout the semester. For a schedule visit <a href="http://www.irsc.edu">www.irsc.edu</a> . Internet Course Orientation 4:00 p.m., 5:00 p.m., and 6:00 p.m., Kight Center V-110, Main Campus. Faculty return.
June 26, Sunday	Registration Deadline - Last day to pay without late fees. ++
June 27, Monday	Classes begin. Late Registration begins. \$30 late fee on or after this date. Drop/Add begins.
June 29, Wednesday	Drop/Add ends. Last day to pay all fees. NO REFUNDS after this date.
July 4, Monday	*HOLIDAY - Independence Day observed.
July 11, Monday	First day to register for Fall 2011.
July 27, Wednesday	Last day to withdraw from a class with a "W".
August 9 & 10 Tuesday & Wednesday	Semester Exams.
August 11, Thursday	Grades due/entered by 8:00 p.m.
August 12, Friday	Grades available online.

\*Official Holiday — All offices closed. No classes.

++Students who have not paid their tuition and fees or received payment coverage from other sources will be dropped from their classes and must pay a late fee and re-register.

## College Mission & Goals

As a leader in education and innovation, Indian River State College positively impacts lives by making possibilities a reality.

We respond to our community by

- Creating a superior learning environment
- Cultivating student success
- Embracing diversity
- Stimulating economic growth
- Promoting cultural enrichment
- Providing lifelong learning

Indian River State College, a comprehensive college accredited to award Associate and Baccalaureate Degrees, serves the residents of Indian River, Martin, Okeechobee, and St. Lucie counties and beyond. Our Mission is fulfilled through the accomplishments of the following goals:

- **Student Access and Success**

Facilitate increased student access to educational opportunity, retention, program completion/graduation, and success after graduation in employment or higher education.

- **Student Development and Satisfaction**

Strengthen student service programs, activities, and organizations that motivate students to maximize their potential for learning through goal achievement, competitiveness, teamwork, and leadership opportunities, critical thinking and problem solving techniques, and good citizenship.

- **Educational Programs**

Lead the community in raising the overall quality and standards of education at all levels, with particular emphasis on the science, math, and technology education necessary for student success and economic development in the 21st century.

- **Cultural Diversity and Enrichment**

Improve the cohesiveness, quality of life, and ability of all citizens to contribute toward the betterment of the community by promoting and supporting the appreciation of cultural diversity and serving as a resource for cultural enrichment.



## College Mission & Goals

- Technology

Supply to the community a well-prepared, technologically literate operation, and maximize the quality of education, efficiency of operations, and service to students through the appropriate integration and utilization of technology.

- Fiscal Resources

Ensure that the funding received and utilized by the College is commensurate with the mission, goals, and priorities of the institution, as well as the educational needs of the community.

- Access to Learning

Provide the necessary land, facilities, information technology resources, and electronically-based instruction systems to ensure proper access to educational offerings in a positive and safe environment for effective learning at all College campuses.

- Workforce Development

Prepare unemployed youth and adults to obtain employment in the region's targeted high-skill, high-wage occupations through high-involvement leadership and collaboration in the school-to-work, welfare-to-work, and one-stop career center workforce development initiatives.

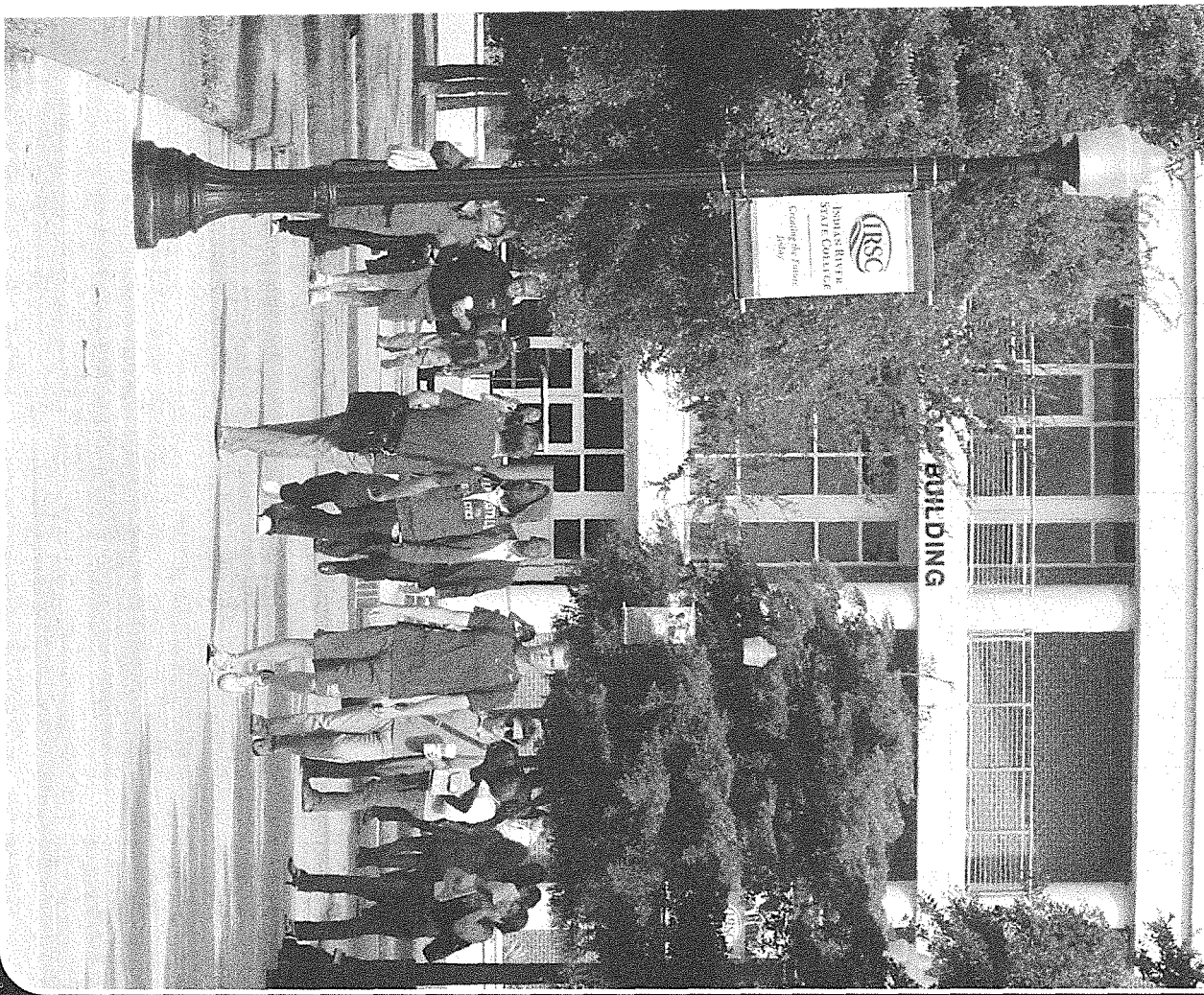
- Economic Development

Contribute to the success of existing businesses and increase the appeal of the Treasure Coast to prospective desirable industries through leadership in economic development.

- College Personnel

Enhance the organizational strength and performance of the College faculty and staff through education and training, leadership development, internal communication, employee recognition, and the empowerment to participate in strategic planning to improve the effectiveness of programs, services, and operations.

# INDIAN RIVER STATE COLLEGE



**IRSC**

## INDIAN RIVER STATE COLLEGE

Indian River State College has earned a statewide and national reputation for excellence. Dedicated to the success of each student, IRSC offers over 150 programs leading to Bachelor's Degrees, Associate Degrees, Technical Certificates and Applied Technology Diplomas. Continuing a 50-year tradition of responsiveness to community needs, IRSC is committed to advancing the educational, cultural, career training, workforce, and economic development of its surrounding area. IRSC is recognized as a key partner in the continuing development of the Research Coast region and as a national model for innovative use of technology in education.

IRSC is an equal access, equal opportunity educational institution welcoming students of any age, race, religion, nationality, gender, and physical ability. Special adjustments within the College, such as architectural modifications for the disabled and classes in English as a Second Language, ensure that all students have equal opportunities for success at IRSC.

The open door policy in force at the College guarantees that anyone who holds a high school or high school equivalency diploma will be admitted to the College. Close cooperation among the administration and faculty, a collegial atmosphere of open communication, and concern for the overall success of the student allow IRSC to give its students a high quality education at a reasonable cost. In addition, many financial aid and scholarship programs are readily available to eligible students.

High school students who wish to get a head start on college can discover new challenges and broaden their experience through IRSC's Dual Enrollment and Early Admissions Programs. Most area high school graduates take their first steps toward future plans at IRSC. In fact, over 70% of the region's college-bound high school seniors attend IRSC following graduation. Persons already established in careers attend IRSC to expand their skills and retrain for new positions. Area residents 50 and over pursue their interests through the Lifelong Learning Institute.

The region's comprehensive educational provider, state-designated career and technical center, and cultural hub, IRSC has a reputation for quality that inspires over 33,000 people to enroll in classes each year.

## ACADEMIC PROGRAMS

Linking Indian River, Martin, Okeechobee, and St. Lucie counties, IRSC offers a wide range of degree and certificate programs, including Baccalaureate Degrees, Associate in Arts, Associate in Science, and Associate in Applied Science degrees, as well as shorter term certificate and Adult Education programs. The College strives to provide its students with a maximum of educational choices; programs are offered not only for students who plan to pursue a Bachelor's Degree program and upper-division studies, but also for students who wish to pursue careers immediately upon completion of shorter-term Associate Degree and Technical Certificate programs.

With its community in mind, IRSC provides a comprehensive and diverse curriculum for students who want to take classes to expand their interests and enhance specific job skills. The Division of Arts & Sciences, Communications & Social Sciences, Advanced Technology, Business Technology, Health Sciences, Public Service Education, Industrial Education, and Developmental Education emphasize academic excellence combined with "real world" experience, providing IRSC graduates with outstanding preparation for 21<sup>st</sup> Century careers.

## HISTORY

Indian River State College has grown in the past fifty years from a one building structure to the dominant educational and cultural center in the region. Authorized by the Florida Legislature in 1959, Indian River Junior College moved to its present campus on Virginia Avenue in 1963 after the City of Fort Pierce donated 87 acres of land to IRSC. In 1965, with the advent of integration, Indian River Junior College and Lincoln Junior College merged, creating one college for all Treasure Coast students. As the College continued to grow in scope and role, the Board of Trustees felt a name representative of the College's comprehensive service was appropriate, and, in 1970, changed its name to Indian River Community College.

In 2007, IRSC was approved to offer Bachelor's degrees to address the region's growing need and demand for upper-division programs. In July 2008, Governor Crist signed into law a legislative bill that included Indian River in the State College Pilot Project, providing the newly named Indian River State College the opportunity to expand its Baccalaureate programs to meet both regional and statewide employment needs.

The past decades have been ones of notable growth at IRSC. Although students from nearly every state and many foreign countries attend the College, it maintains its commitment to providing academic, occupational, technical, cultural, and service programs that meet the needs of the surrounding four-county region.

Governed by a District Board of Trustees representative of the four-county area, IRSC maintains an open, innovative administration, a dedicated staff, and concerned, well-qualified faculty. College faculty and staff members contribute to their community through involvement in many local organizations.

## AREA HIGHLIGHTS

Located in an area of unsurpassed natural beauty, tropical weather, and closeness to the ocean, IRSC is oriented toward outdoor life. Open areas and courtyards on campus give students places to gather or study. With Lake Okeechobee to the west, the Indian River to the east, and the white sandy beaches of the Atlantic Ocean only minutes away from campus, activities such as swimming, surfing, fishing, scuba, and snorkeling are always within easy access. The cities of Fort Pierce, Vero Beach, Stuart, Okeechobee, and Port St. Lucie offer an array of recreational and cultural events, and leisure time activities such as museums, Jai Alai, rodeos, theatre, professional baseball, shopping and dining.

Within an hour's drive on the Florida Turnpike or I-95 are the city of West Palm Beach, many natural attractions, Kennedy Space Center, and a multitude of job opportunities. Only a short distance farther are the Florida Keys, Orlando, Disney World, and by air or boat, the Bahamas.

On campus, a diverse group of organizations, formal and informal gatherings, and stimulating special events ensure that IRSC students always have the opportunity to explore their interests, discover new ones, and make friends to share them with. Students find that challenges, work, research, study, service, discovery, and fun all have a place at IRSC.



## FACILITIES

### Main Campus

Fifty-four buildings on 295 beautifully landscaped acres compose IRSC's Main Campus in the coastal city of Fort Pierce. Reflecting the diversity of IRSC students and their interests, the Main Campus encompasses such specialized facilities as the Kight Center for Emerging Technologies, Treasure Coast Public Safety Training Complex, Mary L. Fields Health Science Center, Vernon and Brenda Smith Florida State University College of Medicine Regional Campus, Science Center and Hallstrom Planetarium, a world class aquatic complex, a modern child development center, a physical fitness lab, a physical therapy assistant training center, and a large, comfortable student center.

The College's \$20 million Kight Center is one of the nation's most technologically sophisticated educational facilities. With an advanced manufacturing suite, photonics laboratory, engineering and digital media laboratory, and editing suite/virtual studio, it provides highly innovative instruction in evolving technologies and serves as an unprecedented resource for economic development.

The 50-acre Treasure Coast Public Safety Training Complex is the nation's most comprehensive center for education and professional development in criminal justice, emergency management, homeland security and fire science. The state-of-the-art \$38 million complex attracts professionals in these fields from around the nation and world for seminars and conferences.

In August 2008, a regional campus of the Florida State University College of Medicine was established on the IRSC Main Campus. This community-based medical school directs clinical rotations for third and fourth year medical students and supports regional development of a strong knowledge-based economy linked to science and medicine.

The Science Center provides a technologically advanced setting for the study of math and science and the Treasure Coast's only Planetarium. The Health Science Center houses 14 laboratory suites and classrooms which simulate "real world" Health Care environments, including a hospital emergency room, nursing ward, dental clinic, and medical laboratory.

The Tomeu Center for Career and Academic Advancement is specifically designed to serve students preparing for a GED diploma, earning credits in Adult High School, developing English language skills, preparing for American citizenship or transitioning into career training and upper-division studies at IRSC.

The IRSC Fine Arts Complex which includes the McAlpin Fine Arts Center, Wynne Black Box Theatre, Fee Dance Studio, Art Gallery and music and drama rehearsal rooms emphasizes IRSC's commitment to the development of well rounded students and inspires participation in the arts and cultural activities. Each year, the College-sponsored Performing Arts Series brings outstanding professional musical productions and dramatic performances to the Treasure Coast.

Complementing the Main Campus are branch campuses in Stuart, Vero Beach, Okeechobee, and Port St. Lucie, all inter-connected with the IRSC Main Campus through a live interactive instructional television system.

Facilities in the surrounding communities include the Blackburn Educational Building in Northwest Fort Pierce, Prima Vista Adult Education Center in Port St. Lucie, and the

Indiantown Education Center in Indiantown. IRSC offers free Adult Education, including literacy instruction, GED high school diploma preparation and English as a Second Language classes at over 30 community outreach locations.

### **Chastain Campus**

Located in Martin County, the Chastain Campus provides a wide range of programs during the day, evening, and weekend hours. Students may complete the entire A.A. Degree and many A.S. Degree programs at this location. The Robert Morgade Administration & Student Services Center provides an array of student services, including a career/financial aid center, bookstore and café. High-tech labs for computer, electronic, and drafting and design programs allow for hands-on learning, using state-of-the-art equipment and software programs to prepare students for high-skill jobs. Customized programs for businesses, an Academic Support Center (ASC), and GED, Adult Basic Education and Adult High School classes are available. In addition, located on this campus is the multi-purpose 15,000 square foot Robert Morgade Library operated in conjunction with the Martin County Library System. The Clare & Gladys Wolf High-Technology Center serves as a hub for technical career preparation and business training, and the Clark Advanced Learning Center – a national model charter high school – offers high school sophomores, juniors and seniors the ability to earn both high school and college credits at no cost.

### **Dixon Hendry Campus**

Located in Okeechobee, the Dixon Hendry Campus offers a creative and flexible schedule for daytime, evening, and weekend courses for A.A., A.S., and A.A.S. Degree programs. The campus offers up-to-date technology with live interactive TV courses, a high-tech computer lab, electronic access to research materials, an Academic Support Center (ASC), GED preparation, and Health Science testing preparation. Career programs directly address the needs of the surrounding community, including customized training for businesses and expanded technical programs in nursing, automotive technology, and other fields. The new Williamson Conference and Education Center provides students and Okeechobee residents with a technologically sophisticated facility for conferences, courses, seminars, strategic planning sessions, and community activities.

### **Mueller Campus**

Located in Indian River County, the Mueller Campus offers daytime, evening, and weekend classes leading toward the A.A. and A.S. Degree. Customized industry training, workforce development, computer technology, and professional certification programs are also available. At the Schumann Center, students can obtain educational/career counseling, apply for financial aid, register/pay for classes and purchase textbooks all in one place. In addition, the Schumann Center features biology laboratories, a high-speed computer lab for graphic design and a teacher training center.

The most recent addition at the Mueller Campus is the Brackett Library, a joint-use facility with Indian River County, which serves both IRSC students and the local community and houses the Marion C. Link Electronic Resource Center. The Richardson Center, home of the Culinary Institute of the Treasure Coast, is an educational, entrepreneurial and conference facility providing a unique high-tech environment for community and economic development activities, business conferences, and a

multitude of classes, workshops and seminars. In addition, the Mueller Campus offers art classes at the Vero Beach Museum of Art, provides outreach programs at the Gifford Youth Activities Center and offers a variety of courses at the Historic Sebastian School.

### **St. Lucie West Campus**

Located in rapidly growing south St. Lucie County, the IRSC St. Lucie West Campus, a joint-use campus with Florida Atlantic University, offers an innovative daytime, evening, and Friday-only schedule of college credit classes for the A.A. Degree. Two-year Associate in Science (A.S.), Associate in Applied Science (A.A.S.), and one-year professional certifications are also available. Golf Course Operations, Landscape & Horticulture Technology and Agricultural Production Technology programs are augmented with a six-hole golf course and horticulture lab. English as a Second Language (ESL) and the General Equivalency Diploma (GED) are offered through the Adult Education Department.

A state-of-the-art academic and public library, free individualized tutoring at the Academic Support Center (ASC), assessment center and tutorial lab help to ensure student success. Additional student services include advisement on career, transfer credits, and programs of study.

The Schreiber Conference Center offers customized business training through IRSC's Corporate & Community Training Institute as well as providing a professional venue for local business, government, and community conferences, seminars, and meetings.

The St. Lucie West Campus will soon break ground for the new STEM (Science, Technology, Engineering, and Mathematics) Building, a multi-use facility which will position the College with an exemplary teaching facility to support the life science firms locating in the Research Coast corridor.

### **Treasure Coast Public Safety Training Complex**

An outstanding national model for public safety and disaster relief training, the eight-building, 101,000 square foot Treasure Coast Public Safety Training Complex provides a world-class environment for professional development in coordinated emergency response. Facilities include a Tactical Village enabling students to work as a team to make on-the-spot decisions to defuse simulated crimes and emergencies, and gain skills through virtual reality practice and mock disasters. There is also an Incident Command Center for training in field command, a Crime Lab observation area for viewing of DNA testing, ballistics and advanced forensics, a Fire Station Training Center, Live Burn Simulator and Mock Court Room.

### **Indiantown Education Center**

Supporting the economic development of the area, the Indiantown Education Center greatly expands opportunities for Indiantown residents to gain a top-quality education. Local firms and organizations benefit with customized business training programs, while Associate in Science Degree and Technical Certificate programs provide area residents with skills for career advancement. Online learning programs available in the well-equipped computer lab allow access to courses toward an Associate in Arts Degree.

**Stuart Square Site/Technology and Business Incubation Center**

IRSC operates a Technology and Business Incubation Center and offers technical training at the easily accessible Stuart Square in downtown Stuart. The Business Incubation Center provides support services to help new technology-based businesses get off to a successful start. Also offered at the site are instructional programs in business and the IRSC Institute of Cosmetology and Barbering.

**Corporate & Community Training Institute**

The Corporate & Community Training Institute (CCTI) located on the IRSC Main Campus in Fort Pierce, provides customized training and educational services and seminars covering an array of topics from basic computer classes to courses in communication, customer service, finance and accounting, human resource management, personal development and interpersonal communication skills, sales and marketing and legal issues in the work place. The CCTI is committed to providing “Business Solutions” – high quality training and employee enhancement programs to individuals, corporations, small businesses and governmental agencies in a professional and timely manner. Courses are provided at the time and location most convenient for the business or organization. CCTI also offers E-Learning and Workplace Spanish courses. Classes are offered on a credit and non-credit basis at flexible days and times. For more information go to the CCTI web site at [www.irsc.edu/ccti](http://www.irsc.edu/ccti).

**Small Business Development Center at IRSC**

To expand support of entrepreneurship and small business, Indian River State College operates the Florida Small Business Development Center (SBDC) serving St. Lucie, Indian River, Martin and Okeechobee counties. The SBDC at IRSC offers free management counseling, low-cost seminars and training sessions in each of the four counties served by the College.





**EDUCATIONAL SERVICES**

## EDUCATIONAL SERVICES DIVISION

### ENSURING YOUR SUCCESS - Academic Advising

The success of each student is the top priority at IRSC. The Educational Services Division encompasses a variety of services to help students benefit from their college experiences from the first visit to the College to graduation. Services include: Student Advising, Educational Program Planning, Financial Aid, Veterans Affairs, Admissions and Records, Curriculum Support, Career Planning and Job Placement Center, and Student Success Services/Enrollment Center. These services ensure that each student's program of study will be uniquely suited to his/her interests and abilities.

After an initial counseling and program planning session with an academic advisor, students may register in person at any campus, online at [www.irsc.edu](http://www.irsc.edu) or by telephone to schedule classes that will meet degree requirements.

Continuous evaluation and updating of the curriculum ensures that the programs of study at IRSC are current and relevant, with courses that provide a firm foundation for career success and continued education. IRSC graduates are well-prepared for transition to upper-level programs, including the opportunity to earn a Bachelor's Degree at IRSC. To assist students planning to continue studies toward a Bachelor's Degree, the Educational Services Division evaluates university specifications for credit transfer and advises students on the courses available at IRSC that fulfill these requirements.

In addition to academic advisement and career counseling, the IRSC Health and Wellness Center, IRSC advisors and branch campuses have resource materials available to refer students in need of personal counseling to appropriate agencies within the four-county service district.

## ADMISSIONS & PROCEDURES

### ADMISSIONS - Associate, Certificate, Vocational Programs

Any person planning to enroll in Indian River State College Associate Degree, Certificate and/or Vocational programs should complete an IRSC Application for Admission and Statement of Residency. Applicants may complete this form online at [www.irsc.edu](http://www.irsc.edu). Applications are also available in the Educational Services Division at all IRSC campuses. The completed application may be submitted at any IRSC campus.

1. Under the open-door admissions policy in effect at IRSC, students with one of the following educational credentials will be admitted to Associate Degree programs:
  - a standard high school diploma
  - a high school equivalency diploma (GED) as prescribed in Section 1003.435, Florida Statute
  - a high school Certificate of Completion as prescribed in Section 1003.433(2)(b) Florida Statute
  - previously demonstrated competency in college credit postsecondary coursework to include at least 30 semester hours or more of college credit with a minimum 2.0 cumulative GPA and college level placement scores on the SAT, ACT, or Florida Entry Level Placement Test (FELPT).
  - Home-School Affidavit submitted by the student's parent or legal guardian attesting that the student has completed a home education program pursuant to the requirements of Section 1002.41, Florida Statute.

2. According to state law, all degree-seeking students entering the Florida College System or State University System must be tested for placement purposes. The Florida Entry Level Placement Test is administered by IRSC. Students who register for any mathematics, English, reading, or college level professional coursework, must have placement scores. Scores are valid for 2 years. A.A. degree-seeking students must begin college preparatory instruction (if required) once they enroll in more than 12 credits and must continuously enroll in at least one preparatory course each term until the requirement is met.
3. Degree-seeking students must submit official transcripts from high school and all post-secondary educational institutions attended to Admissions and Records. All students entering Selective Admissions Programs and/or students receiving financial aid must have their transcripts on file and evaluated prior to their first term of enrollment. All other degree-seeking applicants must complete their admissions and submit all transcripts by the established deadline for the term. The student is responsible for requesting official transcripts and paying related fees from the sending institution.
4. Academically superior students may be admitted to the IRSC Dual Enrollment program while still in high school after they have obtained the approval of their high school principal or others designated by their county's Superintendent of Schools. (See Dual Enrollment and Early Admissions on page 29).
5. Certain specialized programs, such as Health Sciences and Cosmetology, have additional requirements for admission and may have specific application deadlines. Applicants to the Selective Admissions programs should contact the appropriate department for further information.

Once a student's application has been processed, a notification letter of any missing documents will be sent. Students whose continued attendance is interrupted by four or more major terms will be required to submit an updated IRSC Application for Admission and Statement of Residency (students may complete this form online at [www.irsc.edu](http://www.irsc.edu)) and are subject to the Admission Guidelines that are in effect at the time of re-entry. Admitted students will be assigned an advisor/counselor, who will assist the students in establishing and completing an academic plan.

## **PLACEMENT TESTING**

Florida Statutes require that degree-seeking students take one of the approved placements tests prior to registration for classes. Students who present ACT scores of Reading 18, English 17, Math 19, or SAT scores of Verbal 440, Math 440 or higher, may be exempt from taking the Florida Entry Level Placement Test (FELPT.) Currently, IRSC administers the FELPT and the National ACT Exam. The FELPT is offered daily at each campus. Photo identification is required. Testing schedules are available at all IRSC campuses.

## **CLASSIFICATION OF STUDENTS**

Students may enroll at IRSC on a full-time or part-time basis. Students who enroll for 12 or more semester hours in the Fall and Spring Semester are classified as full-time, while those who enroll for fewer than 12 hours are part-time students. During the Summer Semesters, a student must be enrolled in 6 or more semester hours per

term to be classified as a full-time student. For financial aid purposes, students must be enrolled in 12 credit hours each term to be considered full-time and 6 credit hours to be considered half-time. The number of semester hour credits earned determines a student's classification. Freshmen have earned fewer than 30 semester hours; sophomores have earned at least 30 semester hours; juniors have earned at least 60 semester hours; seniors at least 90 semester hours.

## **ATTENDANCE**

Regular class attendance is required at IRSC. Students are expected to adhere to the policies set by each instructor. Students who do not attend the first week of their class will be withdrawn and will receive a grade of 'W'. Attendance in online classes is verified by logging in through Angel. Students who receive financial aid or Veterans benefits should refer to the Financial Aid section of this catalog for further information on attendance.

## **ADMISSIONS – Baccalaureate Programs**

Any person planning to enroll in Indian River State College Baccalaureate programs must complete the Application for Admission and Statement of Residency and pay the one-time \$30 non-refundable application fee. Students may complete this form online at [www.irsc.edu](http://www.irsc.edu). Admission is open to all applicants who meet the admission requirements. All applicants must provide official transcripts. Students must demonstrate successful completion of College Preparatory requirements in English, reading and math prior to admission into a Baccalaureate program.

## **BACHELOR OF APPLIED SCIENCE DEGREE in ORGANIZATIONAL MANAGEMENT (B.A.S.)**

Applications for IRSC's Bachelor of Applied Science Degree in Organizational Management program are accepted year-round, and students may start during any semester of the academic year. Requirements for admission to the B.A.S. program in Organizational Management are:

1. Applicants for the Bachelor of Applied Science Degree in Organizational Management program must have earned an Associate in Science (A.S.) or an Associate in Applied Science (A.A.S.) Degree (or equivalent) from a regionally accredited postsecondary institution.. Students wishing to pursue a Bachelor of Applied Science in Organizational Management with a major in either Health Care Management or Public Safety Administration must meet the admission requirement of those specialized tracks for acceptance into those concentration areas. Students with an Associate in Arts (A.A.) Degree (or equivalent) may be admitted to the B.A.S. program with the approval of the Assistant Dean of Business Technology. Those with A.A. degrees who have completed all core General Education requirements will be required to complete a total of eighteen (18) credits in an occupational/technical area (e.g., accounting technology, computer science, business, etc.) in lieu of the additional core General Education required of the A.S./A.A.S. graduate.
2. Earned an overall Grade Point Average (G.P.A.) of 2.0 in lower-division coursework.

**BACHELOR OF APPLIED SCIENCE DEGREE IN DIGITAL MEDIA (B.A.S.)**

Applications for IRSC's Bachelor of Applied Science Degree in Digital Media program are accepted year-round, and students may start during any semester of the academic year. Requirements for admission to the B.A.S. program in Digital Media are:

1. Earned an Associate Degree (or equivalent) from a regionally accredited postsecondary institution. An A.S. Degree in Graphic Design or Digital Media is preferred.
2. Earned an overall Grade Point Average (G.P.A.) of 2.0 in lower-division coursework.

**BACHELOR OF SCIENCE DEGREE IN EDUCATION (B.S.)**

Applications for IRSC's Bachelor of Science Degree in Education programs are accepted year-round, and students may start during any semester of the academic year. Requirements for admission to the B.S. programs in Education programs are

1. Earned an Associate in Arts Degree (or equivalent) from a regionally accredited postsecondary institution.
2. Completion of all lower-division state-mandated common prerequisites including the three (3) Education prerequisites: EDF 2005, EDF 2085 and EME 2040.
3. Earned an overall grade point average (GPA) of 2.5 in lower-division coursework.
4. Submission of a satisfactory brief narrative that includes a request for admission to the program, factors influencing the applicant's decision to teach, the applicant's philosophy of education, and previous teaching or related experiences which demonstrate the applicant's potential as an educator.
5. Demonstrate mastery of general knowledge by presenting passing scores on all portions of the General Knowledge (GK) test of the Florida Teacher Certification Exam.
6. Submission of written recommendations from three (3) individuals familiar with the applicant's academic work, personal character, and/or ability to work with children and/or youth.

Note: All students accepted into an Education Baccalaureate Degree program must pass a Level II background check by the Florida Department of Law Enforcement (FDLE) and the Federal Bureau of Investigation (FBI) prior to beginning any course with a field experience component. Background checks will be administered by the school district(s) where field experiences are to be conducted. Students who cannot obtain a satisfactory background check will be prohibited from registering for courses with a field experience component and may be dismissed from the Education program.

**BACHELOR OF SCIENCE DEGREE IN NURSING (B.S.N.)**

Requirements for admission to the Bachelor of Science in Nursing (B.S.N.) are:

1. Applicants must have completed an Associate in Science Degree in Nursing (or equivalent) from a regionally accredited postsecondary institution.
2. Applicants must have a 2.5 grade point average (GPA) on a 4.0 scale.
3. Applicants must have a valid Florida Registered Nurse license.
4. Applicants must demonstrate computer competency as required by IRSC.

## **BACHELOR OF SCIENCE DEGREE IN BIOLOGY (B.S.)**

Applications for IRSC's Bachelor of Science Degree in Biology program are accepted year-round, and students may start during any semester of the academic year. Requirements for admission to the B.S. program in Biology are:

1. Earned an Associate in Arts Degree (or equivalent) from a regionally accredited postsecondary institution.
2. Earned an overall Grade Point Average (G.P.A.) of 2.0 in lower-division coursework.
3. Completion of all required common prerequisite courses (listed below) with a grade of "C" or higher

BSC 2010 - General Biology, BSC 2010L - General Biology Lab, BSC 2011 - General Biology II, BSC 2011L - General Biology II Lab, CHM 1045 - General Chemistry I, CHM 1045L - General Chemistry I Lab, CHM 1046 - General Chemistry II, CHM 1046L - General Chemistry II Lab, CHM 2210 - Organic Chemistry I, CHM 2210L - Organic Chemistry I Lab, CHM 2211 - Organic Chemistry II, CHM 2211L - Organic Chemistry II Lab, MAC 2311 - Calculus I, STA 2023 - Statistics

## **BACHELOR OF SCIENCE DEGREE IN HUMAN SERVICES (B.S.)**

Applications for IRSC's Bachelor of Science Degree in Human Services program are accepted year-round, and students may start during any semester of the academic year. Requirements for admission to the B.S. program in Human Services are:

1. Earned an Associate Degree (or equivalent) from a regionally accredited postsecondary institution. An A.S. Degree in Human Services is preferred.
2. Earned an overall Grade Point Average (G.P.A.) of 2.0 in lower-division coursework.

## **NON-DEGREE SEEKING BACCALAUREATE STUDENTS**

Non-degree seeking students may register for certain upper-division courses for the purpose of personal or professional development without being admitted to a Baccalaureate Degree program. Non-degree seeking students must complete an IRSC Application for Admission and Residency Affidavit, pay the Baccalaureate application fee, submit transcripts documenting completion of an Associate Degree or higher, and demonstrate successful completion of College Preparatory requirements in English, reading and math prior to admission as a non-degree seeking Baccalaureate student. Enrollment will be on a space-available basis only. Upper-division credits earned as a non-degree seeking student may be applied toward a Baccalaureate Degree upon admission to a Baccalaureate Degree program. Additional academic program requirements or restrictions may apply. Consult with an IRSC advisor/counselor for additional information.

## **SPECIAL ADMISSIONS**

### **ADMISSION TO HEALTH SCIENCE PROGRAMS**

In addition to admission requirements for most of the programs at IRSC, the Health Sciences Division requires applicants to meet additional "Selective Admission" conditions. These include submission of a Health Sciences program application, payment of a \$30 nonrefundable/non transferable application fee for each program, appropriate academic preparation, and acceptable scores on various aptitude



tests. Students who need refresher or remedial help before being accepted into the Health Science programs are referred to the Academic Support Center (ASC), where individualized instruction is available. Program information booklets outlining the selective admission criteria are available from Educational Services located in Crews Hall (W-Building) on the Main Campus, all other IRSC campuses, the Health Science Division, or the IRSC website.

## DUAL ENROLLMENT

Dual Enrollment is defined as a student simultaneously earning high school credit toward a high school diploma along with college credit toward an Associate Degree or occupational credit toward a technical certificate. For information on additional requirements and opportunities, go to at [www.irsc.edu](http://www.irsc.edu) and click on Programs & Careers, High School/Dual Enrollment. Types of Dual Enrollment include:

1. **Academic** - Students in grades 9-12 may simultaneously earn high school credit toward a high school diploma and college credit toward an Associate or Baccalaureate Degree. Students may be part-time or full-time. To enroll in academic coursework, students must successfully complete an entry-level examination as required by Section 1008.30, Florida Statutes. For the purpose of this agreement, ACT, SAT, and/or FELPT scores are acceptable.
2. **Career/Technical** - Students in grades 9-12 may simultaneously earn elective high school credit toward a high school diploma and career/technical credit toward an Associate Degree or Technical Certificate. Students may be part-time or full-time in career/technical Dual Enrollment.
3. **Early Admission** - Highly qualified high school students may enroll full-time in college, and simultaneously earn high school credits toward a high school diploma and college credit toward an Associate or Baccalaureate Degree. Students must have completed, prior to Early Admission, a minimum of six semesters of full-time secondary enrollment (grades 9-11). Eligibility criteria, as stated in paragraphs #1 and #2 above, also apply to Early Admission.

The following are ineligible to be counted as Dual Enrollment:

- A. Vocational preparatory instruction.
- B. College preparatory instruction.
- C. Other forms of pre-college instruction.
- D. Physical education and recreational studies that focus on physical execution of skills rather than the intellectual attributes of an activity.
- E. Private music lessons.

## TRANSIENT STUDENTS

Students attending other colleges or universities who wish to earn credits for transfer to those institutions may be admitted to IRSC as transient students. These students must present an official statement from the institution they have been attending which certifies the credits they earn at IRSC will be accepted as part of their academic program. Transient students are not required to file transcripts of their previous college credits. Upon completion of a class, transient students may submit a transcript request online at [www.irsc.edu](http://www.irsc.edu) to have their transcript sent to their home institution. In order for an IRSC transcript to be sent to another institution, a written request must be received by Admissions and Records. The Florida Web site [www.FACTS.org](http://www.FACTS.org) contains an

electronic version of the Transient Student Form. Check this site to determine if your school participates in the electronic transcript process.

## **TRANSFER COURSEWORK**

Degree-seeking students must submit official transcripts from all previous postsecondary educational institutions to Admissions and Records during the first six weeks of the term of enrollment. The collegiate coursework must be relevant to the programs offered at IRSC, with course content and level of instruction resulting in student competencies equivalent to those of students enrolled in comparable IRSC courses. Coursework earned from non-regionally accredited institutions will be evaluated on a case by case basis. Upon evaluation, a degree audit will be mailed to the student reflecting courses accepted toward an IRSC degree. IRSC accepts Applied Technology Diplomas (ATD's) for transfer into IRSC programs.

IRSC accepts eligible credits of a grade of "D" or higher in all undergraduate courses. However, a grade of "C" is required for Gordon Rule courses and some prerequisite courses. Please consult an advisor/counselor for further clarification.

All credits attempted at IRSC, along with transfer credits from all other institutions attended, will be used to compute the student's grade point average (GPA) for financial aid purposes. Students must complete at least twenty-five percent (25%) of the program requirements for their certificate or degree at IRSC. Only courses with grades of A, B, C, D and S that are part of the degree will satisfy the residency requirement. College preparatory courses may not be used to fulfill the residency requirement. Courses that can be taken multiple times for credit can be used multiple times toward the residency requirement up to the number of times that they can be taken for credit. CLEP, AP, IB, PEP, and competency-validated credit will not be counted toward the residency requirement. Students should consult with their assigned advisor/counselor if they have any questions regarding transfer.

Transfer students with a last term below a 1.5 GPA will be admitted on an academic warning status. Students in this category should refer to the Academic Warning/ Probation/Suspension section of this catalog.

## **INTERNATIONAL STUDENTS (F1 Student Visa)**

Foreign students desiring to attend IRSC should request the Foreign Student information packet, which includes the Foreign Student information brochure and Foreign Student application for admission. The student must then submit:

1. Completed Foreign Student application along with the \$30.00 application fee.
2. Official transcripts of completed high school and postsecondary work, including the dates of attendance, courses taken, and grades received. A notarized English translation must accompany the transcript. Both should be submitted with the application.
3. Official copy of scores attained on the Test of English as a Foreign Language (TOEFL). A minimum total paper-based score of 500 or a computer-based total of 173 is required of foreign students whose native language is not English.
4. Documentation of medical insurance covering the periods of enrollment.

Foreign students will receive Form I-20 (Immigration Certificate of Acceptance) upon approval of the application.

## INTERNATIONAL TRANSFER COURSEWORK

Students who have attended a postsecondary educational institution outside the United States and wish to have applicable credit transferred to Indian River State College or who are applying for financial aid must have their foreign academic credentials evaluated by **World Education Services, Inc.**, P.O. Box 745, Old Chelsea Station, New York, NY 10011, or **Josef Silney & Associates, Inc.**, 7101 S.W. 102 Avenue, Miami, FL 33173, or any current NACES member (<http://www.naces.org/members.htm>) and provide IRSC Admissions and Records with this evaluation of the official translated transcripts from each institution attended. The student is responsible for evaluation fees and there is no guarantee that any coursework will transfer to IRSC.

## RESIDENCY

Students shall be classified as residents or nonresidents for the purpose of assessing tuition at Indian River State College. A Florida resident for tuition purposes is a person, or a dependent person whose parent or legal guardian, has established and maintained a legal residence in Florida as a bonafide domicile rather than for the purpose of maintaining a residence incident to enrollment at Indian River State College. Living or attending school in Florida will not, in itself, establish legal residence for tuition purposes.

To qualify as a Florida resident for tuition purposes, the person, and, if the person is a dependent, his/her parent or legal guardian, must be a U.S. citizen or hold an eligible immigration status as defined by the Florida College System Guidelines on Florida Residency for Tuition Purposes adopted April 15, 2009. All other persons are ineligible for consideration for classification as a Florida resident for tuition purposes.

Classification of residency for tuition purposes is defined by Florida Statute (2009) 1009.21 Determination of resident status for tuition purposes. Students shall be classified as residents or nonresidents for the purpose of assessing tuition in state colleges and state universities:

(1) As used in this section, the term:

- (a) "Dependent child" means any person, whether or not living with his or her parent, who is eligible to be claimed by his or her parent as a dependent under the Federal Income Tax Code.
- (b) "Initial enrollment" means the first day of class at an institution of higher education.
- (c) "Institution of higher education" means any community college as defined in s. 1000.21(3) or state university as defined in s. 1000.21(6).
- (d) "Legal resident" or "resident" means a person who has maintained his or her residence in this state for the preceding year, has purchased a home which is occupied by him or her as his or her residence, or has established a domicile in this state pursuant to s. 222.17.
- (e) "Nonresident for tuition purposes" means a person who does not qualify for the in-state tuition rate.
- (f) "Parent" means the natural or adoptive parent or legal guardian of a dependent child.
- (g) "Resident for tuition purposes" means a person who qualifies as provided in this section for the in-state tuition rate.

- (2)(a) To qualify as a resident for tuition purposes:
1. A person or, if that person is a dependent child, his or her parent or parents, must have established legal residence in this state and must have maintained legal residence in this state for at least 12 consecutive months immediately prior to his or her initial enrollment in an institution of higher education.
  2. Every applicant for admission to an institution of higher education shall be required to make a statement as to his or her length of residence in the state and, further, shall establish that his or her presence or, if the applicant is a dependent child, the presence of his or her parent or parents, in the state currently is, and during the requisite 12-month qualifying period was, for the purpose of maintaining a bona fide domicile, rather than for the purpose of maintaining a mere temporary residence or abode incident to enrollment in an institution of higher education.
- (b) However, with respect to a dependent child living with an adult relative other than the child's parent, such child may qualify as a resident for tuition purposes if the adult relative is a legal resident who has maintained legal residence in this state for at least 12 consecutive months immediately prior to the child's initial enrollment in an institution of higher education, provided the child has resided continuously with such relative for the 5 years immediately prior to the child's initial enrollment in an institution of higher education, during which time the adult relative has exercised day-to-day care, supervision, and control of the child.
- (c) The legal residence of a dependent child whose parents are divorced, separated, or otherwise living apart will be deemed to be this state if either parent is a legal resident of this state, regardless of which parent is entitled to claim, and does in fact claim, the minor as a dependent pursuant to federal individual income tax provisions.
- (3)(a) An individual shall not be classified as a resident for tuition purposes and, thus shall not be eligible to receive the in-state tuition rate until he or she has provided such evidence related to legal residence and its duration or, if that individual is a dependent child, evidence of his or her parent's legal residence and its duration, as may be required by law and by officials of the institution of higher education from which he or she seeks the in-state tuition rate.
- (b) Except as otherwise provided in this section, evidence of legal residence and its duration shall include clear and convincing documentation that residency in this state was for a minimum of 12 consecutive months prior to a student's initial enrollment in an institution of higher education.
- (c) Each institution of higher education shall affirmatively determine that an applicant who has been granted admission to that institution shall affirmatively determine that an applicant who has been granted admission to that institution as a Florida resident meets the residency requirements of this section at the time of initial enrollment. The residency determination must be documented by the submission of written or electronic verification that includes two or more of the documents identified in this paragraph. No single piece of evidence shall be conclusive.

1. The documents must include at least one of the following:
    - a. A Florida voter's registration card.
    - b. A Florida driver license.
    - c. A State of Florida identification card.
    - d. A Florida vehicle registration.
    - e. Proof of a permanent home in Florida which is occupied as a primary residence by the individual or by the individual's parent if the individual is a dependent child.
    - f. Proof of a homestead exemption in Florida.
    - g. Transcripts from a Florida high school for multiple years if the Florida high school diploma or GED was earned within the last 12 months.
    - h. Proof of permanent full-time employment in Florida for at least 30 hours per week for a 12-month period.
  2. The documents may include one or more of the following:
    - a. A declaration of domicile in Florida.
    - b. A Florida professional or occupational license.
    - c. Florida incorporation.
    - d. A document evidencing family ties in Florida.
    - e. Proof of membership in a Florida-based charitable or professional organization.
    - f. Any other documentation that supports the student's request for resident status, including, but not limited to, utility bills and proof of 12 consecutive months of payments; a lease agreement and proof of 12 consecutive months of payments; or an official state, federal, or court document evidencing legal ties to Florida.
- (4) With respect to a dependent child, the legal residence of such individual's parent or parents is prima facie evidence of the individual's legal residence, which evidence may be reinforced or rebutted, relative to the age and general circumstances of the individual, by the other evidence of legal residence required of or presented by the individual. However, the legal residence of an individual whose parent or parents are domiciled outside this state is not prima facie evidence of the individual's legal residence if that individual has lived in this state for 5 consecutive years prior to enrolling or registering at the institution of higher education at which resident status for tuition purposes is sought.
- (5) In making a domiciliary determination related to the classification of a person as a resident or nonresident for tuition purposes, the domicile of a married person, irrespective of sex, shall be determined, as in the case of an unmarried person, by reference to all relevant evidence of domiciliary intent. For the purposes of this section:
- (a) A person shall not be precluded from establishing or maintaining legal residence in this state and subsequently qualifying or continuing to qualify as a resident for tuition purposes solely by reason of marriage to a person domiciled outside this state, even when that person's spouse continues to be domiciled outside of this state, provided such person maintains his or her legal residence in this state.



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- (b) A person shall not be deemed to have established or maintained a legal residence in this state and subsequently to have qualified or continued to qualify as a resident for tuition purposes solely by reason of marriage to a person domiciled in this state.
  - (c) In determining the domicile of a married person, irrespective of sex, the fact of the marriage and the place of domicile of such person's spouse shall be deemed relevant evidence to be considered in ascertaining domiciliary intent.
- (6)(a) Except as otherwise provided in this section, a person who is classified as a nonresident for tuition purposes may become eligible for reclassification as a resident for tuition purposes if that person or, if that person is a dependent child, his or her parent presents clear and convincing documentation that supports permanent legal residency in this state for at least 12 consecutive months rather than temporary residency for the purpose of pursuing an education, such as documentation of full-time permanent employment for the prior 12 months or the purchase of a home in this state and residency therein for the prior 12 months while not enrolled in an institution of higher education.
- (b) If a person who is a dependent child and his or her parent move to this state while such child is a high school student and the child graduates from a high school in this state, the child may become eligible for reclassification as a resident for tuition purposes when the parent submits evidence that the parent qualifies for permanent residency.
  - (c) If a person who is a dependent child and his or her parent move to this state after such child graduates from high school, the child may become eligible for reclassification as a resident for tuition purposes after the parent submits evidence that he or she has established legal residence in the state and has maintained legal residence in the state for at least 12 consecutive months.
  - (d) A person who is classified as a nonresident for tuition purposes and who marries a legal resident of the state or marries a person who becomes a legal resident of the state may, upon becoming a legal resident of the state, become eligible for reclassification as a resident for tuition purposes upon submitting evidence of his or her own legal residency in the state, evidence of his or her marriage to a person who is a legal resident of the state, and evidence of the spouse's legal residence in the state for at least 12 consecutive months immediately preceding the application for reclassification.
- (7) A person shall not lose his resident status for tuition purposes solely by reason of serving, or, if such person is a dependent child, by reason of his or her parent's or parents' serving, in the Armed Forces outside this state.
- (8) A person who has been properly classified as a resident for tuition purposes but who, while enrolled in an institution of higher education in this state, loses his or her resident tuition status because the person or, if he or she is a dependent child, the person's parent or parents establish domicile or legal residence elsewhere shall continue to enjoy the in-state tuition rate for a statutory grace period, which period shall be measured from the date on which the circumstances arose that culminated in the loss of resident tuition status and shall continue for 12 months.

However, if the 12-month grace period ends during a semester of academic term for which such former resident is enrolled, such grace period shall be extended to the end of that semester or academic term.

- (9) Any person who ceases to be enrolled at or who graduates from an institution of higher education while classified as a resident for tuition purposes and who subsequently abandons his or her domicile in this state shall be permitted to re-enroll at an Institution of higher education in this state as a resident for tuition purposes without the necessity of meeting the 12-month durational requirement of this section if that person has re-established his domicile in this state within 12 months of such abandonment and continuously maintains the re-established domicile during the period of enrollment. The benefit of this subsection shall not be accorded more than once to any one person.

Please consult the Admissions and Records Office for additional statute exceptions regarding classification as a resident for tuition purposes.

An applicant who wishes to appeal his or her residency determination may do so by submitting a written petition to the Residency Appeal Committee. The Residency Appeal Committee will render a final written decision with the reason for the determination.

After a period of 24 months of non-enrollment, students will be required to apply for re-admittance to the college and re-submit documentation for classification as a resident for tuition purposes.

An applicant should be aware that a false statement regarding residency status is punishable as a misdemeanor under Section 837.06, Florida Statutes.

## CHANGE OF ADDRESS

Students may change their address at [www.irsc.edu](http://www.irsc.edu), or in person at any IRSC campus. To ensure receipt of College correspondence and information distributions, it is important to keep mailing and e-mailing address records updated.

## FEES

Every effort is made at IRSC to provide a high quality education at a reasonable cost. Many financial aid and scholarship programs are available to eligible students to assist with the financing of their college education at IRSC.

Up to 5% of each student's matriculation fee per credit hour is applied toward scholarships.

The fee schedule in effect at IRSC as of August, 2010, is listed below. These fees should be considered approximate cost estimates. All fees listed are subject to change at any point during the Catalog year.

Program	Florida Resident Matriculation	Non-Florida Resident Tuition
Baccalaureate	\$101.88/cr. hr.	\$436.84/cr. hr.
Advanced and Professional	\$92.00/cr. hr.	\$351.00/cr. hr.
Postsecondary Vocational	\$92.00/cr. hr.	\$351.00/cr. hr.
Educator Preparatory	\$92.00/cr. hr.	\$351.00/cr. hr.
College Preparatory	\$92.00/cr. hr.	\$351.00/cr. hr.
Postsecondary Adult Vocational	\$2.30/contact hr.	\$9.19/contact hr.

Continuing Workforce Education	\$8.00/contact hr.	\$16.00/contact hr.
Vocational Preparatory	\$2.30/contact hr.	\$9.19/contact hr.
Adult Basic Skills/ Adult Secondary	\$1.06/contact hr.	\$4.24/contact hr.
Adult Elementary & Secondary	NO FEE	NO FEE
Lifelong Learning Institute	\$7.50/contact hr.	\$7.50/contact hr.
Recreational and Leisure Time Fee Supported	\$1.00/contact hr.	\$1.00/contact hr.

## SPECIAL FEES

Special fees (non-refundable), in addition to matriculation, tuition, and registration:

Late Registration		\$30.00
Commencement (includes regalia)		\$40.00
Cosmetology and Barbering Graduation		\$20.00
Adult High School Graduation		\$20.00
Practical Nursing Graduation		\$20.00
Culinary Institute of the Treasure Coast Application		\$30.00
Baccalaureate Application Fee		\$30.00
Health Science Application		\$30.00
Health Science Fee for Criminal Background Check/Drug Screening		\$100.00
International Student Application		\$30.00
Internet Course	\$5.00/cr. or /30 clock hour	
Fine Arts Scholarship Drug Test		\$35.00
Florida Entry Level Placement Test		\$10.00
One Subtest		\$10.00
General Education Development Test (GED)		\$56.00
National League of Nursing Exam		\$75.00
Child Care (per child, per week)		\$110.00
Competency Validated Credit - Service Fee	\$5.00/cr. or /30 clock hour	
Interlibrary Loan Fees - Photocopied		\$.10/pg.
Parking Fines		\$10.00
Replacement Student I.D. Card		\$5.00
Replacement Radiation Monitor Badge		\$4.00
Replacement Radiation Monitor Ring		\$3.00

Additional fees may be charged for instruction incurring unusual costs and for special services to individuals or community or governmental agencies.

In accordance with state law, students who register for a college preparatory class or for a college credit class for the third time, may be assessed the full instructional cost.

Refer to the Course Description section of this catalog for lab fees, test fees and insurance fees assessed for individual courses.

## EXCESS HOURS NOTIFICATION

Effective 2009, a new Florida law F.S. 1009.286 requires that students who enroll in more credit hours than needed to complete a Bachelor's Degree may be subject to pay higher fees for the excess hours. State university students who enroll in more than 120% of the total hours required for their degree program will be required to

pay a 50% surcharge on the additional credit hours. For example, a student in a 120-credit Bachelor's Degree program will be required to pay this penalty for every credit exceeding 144 credit hours.

All classes in which you enroll will count toward this total with the following exceptions: college-level classes taken in high school such as Dual Enrollment or credit received via AP, IB or CLEP examinations; credits earned during an internship; credits earned to obtain or renew a certification; credits earned while on active military duty; some credits earned to complete a dual major in a Baccalaureate program; credits earned in preparatory or ESL classes; military classes such as ROTC; and classes from which you had to withdraw due to a medical or personal hardship.

Please schedule an appointment with your advisor to create an academic plan that ensures you enroll only in courses needed for your program so that you can avoid extra costs when transferring to one of Florida's public universities.

## **SCHOLARSHIPS**

The Indian River State College Foundation enhances access and quality of education for students by attracting and managing private contributions from individuals, corporations, and private foundations. The IRSC Foundation awards more than \$1.8 million in scholarships each year to assist students in gaining a college education. Various academic, cultural and discipline area scholarships are also available on a competitive basis, and many organizations throughout the community offer scholarships to students who plan to attend IRSC. Applications and information concerning scholarships can be obtained at the IRSC Foundation Web site at [www.irscfoundation.org](http://www.irscfoundation.org), the IRSC Foundation Office, the Financial Aid Office, or any of the four-county area high school guidance offices.

## **FINANCIAL AID**

Indian River State College believes that no person should be denied a college education due to a lack of funds. The College and IRSC Foundation make available to eligible students a variety of scholarships, grants, work opportunities, and loans. Although students and their parents are expected to make every effort to meet the costs of education, many students do qualify for some form of scholarship or financial aid and are encouraged to apply for aid through the IRSC Financial Aid Office.

Federal and State financial aid programs are offered to eligible students at IRSC. These include:

- Federal Pell Grant
- Federal Academic Competitiveness Grant
- Federal Supplemental Educational Opportunity Grant (FSEOG)
- Florida Student Assistance Grant (FSAG)
- Florida Bright Futures Scholarship Program
- Federal TEACH Grant
- Federal Work Study Program (FWSP)
- Federal Family Education Loans

Applications and information on these programs are available to students through their high school guidance counselor, at all IRSC campuses, or the IRSC website. Since aid applications take 6 to 8 weeks to process, students are encouraged to apply early.

Federal Aid recipients must meet satisfactory academic progress guidelines and must achieve a 2.0 grade point average (GPA). Federal Financial Aid eligibility requirements state that students can only receive financial aid for classes that are in their degree program (exception: up to 30 credits in remedial coursework will count for aid purposes).

## **SATISFACTORY ACADEMIC PROGRESS**

There are three components to IRSC's Satisfactory Academic Progress Standards (SAP) for Financial Aid Recipients:

1. Aid recipients are expected to maintain a minimum cumulative 2.0 GPA for all classes attempted.
2. Aid recipients must successfully complete 70% of all credits attempted each term.
3. Aid recipients must complete their degree or certificate within a specified time-frame, based on enrollment status.

In general, students who have attempted more than 150% of their program of study will not be eligible to receive Financial Aid at IRSC, even if some of these credits were attempted at another institution. Selective Admission Health Science programs have specific higher credit limits. Certain aid programs may have more restrictive guidelines. More specific SAP guidelines may be obtained from the Financial Aid Office. It is the student's responsibility to be aware of, and to adhere to, all Satisfactory Academic Progress requirements for aid recipients.

## **ACADEMIC WARNING/PROBATION/SUSPENSION**

Standards of Academic Progress will be calculated based upon the student's term grade point average at the end of each semester. All students whose term grade point average is below a 1.5 will be placed on academic warning for the next semester in which they enroll and may enroll for a maximum of 15 credit hours. Students whose term GPA remains below a 1.5 at the end of the warning semester will be placed on probation for the next semester in which they enroll and may enroll for a maximum of 12 credit hours. At the end of the probation period students whose term GPA remains below a 1.5 will be placed on suspension. Suspension is action taken by the College to suspend a student due to poor academic progress. Students on suspension will not be permitted to enroll in classes until they apply for reinstatement by meeting with an advisor/counselor. If the appeal is approved, the student will be readmitted for one additional probationary semester to obtain a term GPA of 1.5 or above. During this reinstatement semester, the student may enroll for a maximum of 12 credit hours.

This Academic Warning/Probation/Suspension Policy is also applicable to transfer students. Therefore, it is possible for a transfer student to enter IRSC under first-term academic warning status.

## **FINANCIAL AID AND ATTENDANCE**

Students at IRSC who receive any Federal Financial Aid, including Veterans benefits, are expected to attend all class sessions. Unavoidable absences should be discussed with instructors. Also, students funded by any of these programs must make Satisfactory Academic Progress to maintain their eligibility. Financial Aid and Veteran students should refer to IRSC's Standards of Satisfactory Academic Progress (available in the

Financial Aid Office); Students who are Financial Aid recipients who cease to attend classes are considered withdrawn for Financial Aid purposes. (See **Withdrawals-Refund of Title IV Funds**, below). Students who do not attend class during the first week of the term will be withdrawn from class, receive a grade of “W”, and have their Financial Aid award adjusted as appropriate. Attendance in online classes is verified by logging in through Angel.

## **WITHDRAWALS - REFUND OF TITLE IV FUNDS**

Any student who withdraws and/or stops attending all of his/her classes prior to the 60% point of any term and has received any Federal funds will owe a repayment to the Financial Aid programs. Federal regulations prohibit a student who owes a refund from receiving any further Title IV Aid until this refund obligation has been paid.

Title IV Aid includes all Federal Financial Aid programs authorized under the Higher Education Act of 1965 (as amended). The following IRSC Financial Aid sources are a part of the Title IV programs: Unsubsidized Stafford Loans, Subsidized Stafford Loans, Federal PLUS Loans, Federal Work-Study, Federal Supplemental Educational Opportunity Grant (FSEOG), Federal Pell Grants, Federal ACG, and Federal TEACH Grant.

## **VETERANS/ELIGIBLE DEPENDENTS**

Indian River State College is approved by the State Approving Agency for Veterans Training to provide training under the various education laws administered by the Department of Veterans Affairs. The new Post-911 G.I. Bill provides expanded educational benefits for qualified veterans who have served in the military after September, 11, 2001. It is important that veterans/eligible dependents who plan to attend IRSC apply early through the Veterans Affairs Office on the IRSC Main Campus so that certification of eligibility may be obtained from the VA Regional Office. It is the individual's responsibility to make sure that he/she meets all of the eligibility requirements, and reads and understands the regulations and policies that govern the VA educational benefit program. Veterans/eligible dependents must enroll for at least 12\* semester hours during the Fall and Spring Semesters, and for at least 6 semester hours during each of the Summer Sessions to receive educational benefits at the full-time rate. If fewer semester hours are attempted, monthly allotments are generally reduced proportionately.

Students receiving VA educational benefits must maintain a cumulative grade point average (CGPA) of 2.0 to continue their eligibility for benefits. If a student's CGPA falls below 2.0, the student will be given no more than two consecutive probationary periods to re-establish a 2.0 CGPA. A student's VA education benefits will be terminated if his/her CGPA remains less than 2.0 at the end of the second probationary period. Students may be recertified for VA education benefits when their CGPA reaches 2.0. The academic probation/suspension procedures indicated in this catalog refer to the continued enrollment in the College, not to continued eligibility for VA educational benefits. The VA benefit eligibility policy is consistent with the 2.0 cumulative GPA as required for graduation. Non-degree students who fail to maintain satisfactory progress are not permitted to continue enrollment in the program and would not, therefore, be certified as eligible to receive educational benefits.

A veteran/eligible dependent's enrollment status is certified to the VA for each

\*Subject to change by the United States Department of Veterans Affairs of the Veterans Administration.



enrollment period the individual is enrolled. It is the individual's responsibility to report to the IRSC Veteran's Office all changes in the number of semester hours he/she is enrolled in or any other change in status. At least 45-60 days should be allowed for paperwork to be processed before an individual can expect his or her first benefit payment.

Students in vocational clock hour programs are expected to attend all class sessions. Students receiving VA educational benefits should note that excessive absences will result in termination of benefits. Absences totaling more than the equivalent of 10% of the total hours for the enrollment period will result in the student being terminated from receipt of VA educational benefits due to unsatisfactory attendance.

## COLLECTION POLICY

A student with an outstanding financial obligation will have his/her grades, transcripts, and registration withheld until the outstanding balance is paid in full. An outstanding balance could consist of a returned check, deferment, fee deficiency, financial aid over award, or other financial obligation. The College will make every effort to notify the student of the obligation. It is the student's responsibility to make sure the College has the correct mailing information. If the student does not respond, the College reserves the right to send all accounts deemed delinquent to an external collection service. The College will attempt to notify all students before this action is taken. However, once an account is submitted, all collection costs will be added to the outstanding balance of the delinquent account. The student will be responsible for all collection costs incurred.

## REFUNDS

A full (100%) refund of matriculation, tuition and other fees will be granted to a student only under the following circumstances:

1. A student officially drops a class prior to the published add/drop deadline for the regular term.
2. A student officially drops a Special Registration class prior to the published drop deadline. A Special Registration class is defined as a class with beginning and ending dates that do not coincide with the beginning and ending dates published for the regular term.
3. A student is registered for a class that is cancelled by the College.
4. A student is called to active military duty and officially withdraws from classes. The student must present his or her formal "Orders to Report for Duty."

A student receiving financial aid may receive refunds based on the Federal refund regulations.

Other than the four conditions stipulated above, the only other refund requests considered by the College will be those where there are documented, extraordinary circumstances absolutely beyond the student's control. Students who believe their situation qualifies for consideration and review have one year from the date of withdrawal to submit a *Withdrawal with a Refund Request* and any pertinent documentation to the relevant Provost or Dean. The Provost or Dean will then make their recommendation to their respective Vice President.

The process of refunding fees for classes begins as soon as possible following the published Drop/Add deadline for that term and continues on a periodic basis for the

remainder of that term. Any monies owed to the College by a student will be deducted before a refund is issued. Refunds will be mailed 2 - 4 weeks after the Drop/Add period ends.

Individuals can refer to the District Board of Trustees Policy Manual, 6Hx11-7.14, for detailed information regarding student refunds.

## **REGISTRATION**

Registration for classes can be completed online at [www.irsc.edu](http://www.irsc.edu), at the Educational Services Division on the Main Campus (Crews Hall, W-building) or at any IRSC campus. Students may also use online or telephone registration to drop and add classes, or pay tuition. Students must have a current application for admission on file, a valid major code, and no outstanding holds in order to register. Registration is not complete until all fees are paid. Although classes may be scheduled in advance, that schedule is not effective until all fees are paid. Registration deadlines are noted in the College Academic Calendar near the front of this catalog.

## **DROP/ADD PROCEDURES**

The Drop/Add period is noted in the calendar near the front of this catalog. State regulations prohibit IRSC from allowing registration changes after the deadline for Drop/Add has passed. It is the student's responsibility to make sure the necessary fee adjustments are paid by the Drop/Add deadline. Students who wish to change their class schedule during this period can do so online at [www.irsc.edu](http://www.irsc.edu) or via the Telephone Registration System (1-866-792-4772) or visit the Educational Services Division or any IRSC campus and meet with an advisor/counselor. Students must officially drop classes from their schedule or they will be charged full tuition, regardless of their Financial Aid status. Financial Aid and Veteran students are required to notify the Financial Aid Office and Veterans Affairs Office of any changes to their course schedule.

## **WITHDRAWAL AND FORGIVENESS POLICY**

A student may repeat a college credit course in which a grade of D, F, I, U, or W was earned two additional times for a total of three attempts. Grade forgiveness means that the student's grade point average will be calculated based upon the final grade earned in the course, provided it is not a W. If a student repeats a course resulting in a withdrawal, then the grade earned in the previous attempt will be used in the GPA calculation. Federal Financial Aid rules do not use grade forgiveness in Standards of Academic Progress.

Students may not withdraw from any college credit course more than two times. Withdrawals of any kind, including Instructor Withdrawals, are not permitted for the student's third attempt in a course. Courses taken at institutions other than IRSC will not be counted as attempts.

Students who take a college credit course for the third time will be assessed full instructional costs. An appeal process is in place for those students who have major extenuating circumstances. Upon a successful appeal, the third attempt in the course will be assessed at the regular tuition rate.

## **WITHDRAWAL PROCEDURES**

Students are strongly urged to consider that withdrawal from courses will negatively impact them from an educational and financial standpoint. Students who accrue excess

hours in earning a degree may be subject to paying non-resident fees at a Florida public university, and Bright Futures Scholarship students are required to re-pay the College for the tuition of any courses from which the student withdraws. It is imperative that students discuss any intent to withdraw from a course with their advisor/counselor and instructor in order to avoid negative repercussions. Students may withdraw from any class and have a “W” recorded provided certain conditions are met:

1. Individual class withdrawals must occur before the deadline noted in the Academic Calendar in the front of this catalog.
2. Withdrawals from Special Registration classes must be completed prior to the final class meeting. A Special Registration class has beginning and ending dates that do not coincide with the beginning and ending dates for the regular term.
3. A total withdrawal from all classes must occur prior to the first day of final examinations for that term. Official withdrawal forms are available at any IRSC campus.
4. Withdrawals may not be completed for the third attempt in any college credit course. See the Withdrawal and Grade Forgiveness Policy noted above.
5. Withdrawals may be done online at [www.irsc.edu](http://www.irsc.edu) or in person at any IRSC campus. The withdrawal date is the date the withdrawal form or web entry is submitted.
6. Students who do not attend class and who do not officially withdraw may receive a failing or unsatisfactory grade.
7. **Financial Aid and Veteran students** should refer to IRSC's Standards of Satisfactory Academic Progress (available in the Financial Aid Office) and also to the Financial Aid section of this catalog for information regarding the return of Title IV funds.

## GRADING SYSTEM

At the end of each term, students may access their grades online at [www.irsc.edu](http://www.irsc.edu). In addition, students may assess their academic progress and status each semester by obtaining an online degree audit via [www.irsc.edu](http://www.irsc.edu).

The following grading system is used:

- A Excellent (4 grade points per semester hour)
- B Good (3 grade points per semester hour)
- C Average (2 grade points per semester hour)
- D Poor (1 grade point per semester hour)
- F Failure (no grade points)
- \*I Incomplete (no grade points)
- S Satisfactory (no grade points)
- U Unsatisfactory (no grade points)
- W Withdrawn (no grade points)
- NR Not Reported (no grade points)

Some courses require a grade of “C” or better for graduation. To verify which courses require a “C”, contact an advisor/counselor. \*An incomplete grade (I), for which coursework is not completed within a year, will be converted to an “F” or a “U”, depending upon the grading method of class.

Given appropriate advisement, a student may take a course for “S” (Satisfactory) or

“U” (Unsatisfactory) graded credit and count it towards their program. Courses taken for “S” or “U” graded credit will not convert to any other type of grade.

The student’s grade point average is computed by dividing the total number of quality points earned by the total number of hours attempted. Students enrolling for the third attempt in any course at IRSC must meet with an advisor/counselor to review their progress and discuss alternatives and career goals.

Students should be aware of the potential impact of “forgiven” courses in the computation of their grade point average in transferring to other institutions. Financial Aid students need to consider the impact of retaking a course on their specific Financial Aid award.

## **GRADE DISPUTES**

Criteria for final grade determination and assignments are the prerogative of the instructor of record for all College courses. Therefore, only the primary instructor can change the final grade assigned to the student. If a student does not accept the instructor’s explanation of the final grade determination, or contacting the instructor is no longer possible, then the student is entitled to appeal a final grade to the Academic Review Committee.

Students who desire to appeal their assigned grade to the Academic Review Committee, must submit their request in writing to the Vice President of Academic Affairs. A formal meeting will then be scheduled to review the student’s case, review any pertinent documentation, and make an objective determination regarding the student’s final grade. After the review is completed, the Academic Review Committee will make a recommendation to the College President who will notify the student in writing of the College’s final decision.

## **TRANSCRIPTS**

Students may access their unofficial transcript or submit a request for an official transcript online at [www.irsc.edu](http://www.irsc.edu). Written requests for official transcripts may also be submitted to the Office of Admissions and Records or at any IRSC campus. No transcripts will be released until all obligations to the College are satisfied. Contact the Office of Admissions and Records for further information.

## **PRESIDENT’S LIST**

The President’s List is posted at the end of the Fall and Spring Semesters. All students who have completed a minimum of 15 semester hours or more with the letter grade of “A” and a semester GPA of 4.0 will be eligible. Courses with an S/U grading method are not eligible.

## **DEAN’S LIST**

The Dean’s List is posted at the end of each semester. To be eligible for this honor, students must have completed 12 or more semester hours. Students must also maintain a GPA of 3.5 or higher with no grade lower than a “C.” Courses with an S/U grading method are not eligible. For Summer Sessions, 6 or more semester hours must be completed.

## **HONORS PROGRAM**

The Honors Program and Honors Pre-Medicine Program at Indian River State College provide students with the opportunity to expand their academic horizon and enter into

a shared inquiry that leads them to further develop their intellectual capacities.

A prospective Honors student must:

- have an ACT composite score of 26 or higher, an SAT combined score of 1100 or higher, OR
- have a cumulative College grade point average of 3.3 or higher, with a minimum of 12 credit hours excluding college preparatory courses, OR
- have a combined College Placement Test Score of 280 or above.

### Requirements

Students must successfully complete all degree requirements and at least one Honors Interdisciplinary Seminar, at least two intermediate level course sequences in foreign language, Service Learning, and a Capstone Project. They will be expected to attend Fine Arts performances, participate in campus activities such as Brain Bowl and CCG, and are encouraged to participate in IRSC Study Abroad.

Honors Diploma - In addition to or as part of the degree requirements:

- 24 hours of Honors designated credit
- 45 hours of documented Service Learning
- An acceptable Honors Capstone Project
- An overall GPA of 3.5

Honors Certificate - In addition to or as a part of the degree requirements:

- 15 hours of Honors designated credit
- 15 hours of documented Service Learning
- An overall GPA of 3.5

Honors credit may be earned by completing the Honors Interdisciplinary Seminar, completing the Honors Capstone Project, and completing other Honors designated course work. Students interested in the Honors Program may contact the Assistant Dean of Arts and Sciences for application information.

## SERVICE LEARNING

Service Learning is an instructional method that uses experiential education to assist students in acquiring a deeper understanding of and appreciation for underlying concepts, ideas, and principles associated with the course of study, while also promoting and strengthening the idea of democratic citizenship. In Service Learning, experiential learning is not just learning by doing. It combines direct, hands-on experience with guided reflections and analysis of what is being done, how the student is responding to the experience, what the student feels are the good and the bad aspects of the experience, how the student would change the learning process and environment, what the student has learned about the mission and infrastructure of the agency he or she is working with, and what the student sees as his or her responsibility and future role in the community.

## ACADEMIC AWARDS

Graduating students' academic achievements are recognized at the Spring Commencement Ceremony as follows:

- GPA of 3.85 to 4.00 - Graduated with Highest Honors (Summa Cum Laude)
- GPA of 3.70 to 3.84 - Graduated with High Honors (Magna Cum Laude)
- GPA of 3.50 to 3.69 - Graduated with Honors (Cum Laude)

Students who earn academic honors will have their transcripts so designated.

Computation of Academic Awards for the Baccalaureate Degree is based on all coursework attempted (excluding college preparatory). Computation of Academic Awards for the Associate in Arts Degree is based on all coursework attempted (excluding college preparatory and those occupational courses that may not be counted toward an A.A. Degree). For the Associate in Science and the Associate in Applied Science degrees, Academic Awards are based on all coursework attempted (excluding college preparatory). For all degrees, undergraduate coursework attempted at other postsecondary institutions will also be used in this computation.

## **ACCESS TO EDUCATIONAL RECORDS**

Every student has certain rights regarding access to his/her own educational records and the disclosure of information from those records to others. The rights of IRSC students are clearly specified and protected by law as stated in two District Board of Trustees Rules: 6Hx11-7.31 *Student Records* and 6Hx11-7.32 *Student Directory Information*.

Board Rule 6Hx11-7.31, *Student Records*, states:

The College maintains student records in accordance with federal and state law, Florida Statutes, and State Board of Education Rules. Such records are confidential and exempt from F.S. 119.07(1) and are open to inspection only as provided in F.S. 288.075 and AP-7.31, Procedure for Accessing Student Records.

In compliance with federal law and Florida Statute, directory information may be released only under the conditions set forth in Board Policy, 6Hx11-7.32.

Board Rule 6Hx11-7.32, *Student Directory Information*, states: Pursuant to Florida Statute, 1002.21 and 1002.22 and the Family Educational Rights and Privacy Act (FERPA), the College may publish and release general public directory information relating to students.

Student directory information includes a student's name, address, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of College attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student. Directory information will be subject to release in accordance with F.S. 1002.21 and 1002.22, and Federal Regulation 34CFR Part 99. In conjunction with United States Code (U.S.C.) Title 10 Section 983, also referred to as the Solomon Amendment, IRSC is authorized to release directory information to official United States military recruiters upon written request.

Students who wish to prevent the disclosure of their directory information must submit a written notice to the Office of Admissions and Records. Such written notice shall be maintained in the student's file and remain in force until rescinded in writing. All other student record information shall be considered limited access information in accordance with the statute.

The Family Educational Rights and Privacy Act further states that when a student reaches the age of 18 or begins attending a postsecondary institution, regardless of age, FERPA rights transfer from the parent to the student. Therefore, all students who enroll in IRSC are protected by FERPA and shall have the following rights:

1. The right to inspect and review their education records maintained by IRSC. Copies of records are not provided unless, for reasons such as great distance,



it is impossible for students to review their records.

2. The right to request correction to their records which they believe to be inaccurate or misleading. If IRSC makes a determination not to amend the record, students then have the right to a formal hearing. After the hearing, if IRSC still decides not to amend the record, students have the right to place a statement with the record setting forth his or her view about the contested information.
3. The right to limit disclosure of personally identifiable information. Written permission is required to release personally identifiable information from their education records. However, FERPA allows disclosure of those records, without consent, to the following parties or under the following conditions (34 CFR § 99.31):
  - School officials defined as instructional, support, or administrative within an educational agency or institution who have a legitimate educational interest;
  - Other schools to which a student seeks or intends to enroll;
  - Specified federal or state officials for audit or evaluation purposes;
  - State or federal officials in conjunction with consolidated education data systems;
  - Appropriate parties in connection with financial aid records;
  - Organizations conducting certain studies for or on behalf of the school;
  - Accrediting organizations;
  - To comply with a judicial order or lawfully issued subpoena;
  - Appropriate parties, including parents, where a significant threat to the health or safety of a student, or other individual exists;
  - State and local authorities, within a juvenile justice system, pursuant to specific state law; and
  - Contractors, consultants, and other parties to whom IRSC has outsourced organizational services or functions.
4. The right to file a complaint with the Department of Education concerning an alleged failure by IRSC to comply with FERPA regulations.

Parents may obtain non-directory information in compliance with a subpoena or at the discretion of the institution if one of the following conditions has been met:

1. Student completion of a Release of Records authorization form available at any IRSC campus.
2. Submission of evidence that the parent declares the student as a dependent on his or her most recent Federal Income Tax form.

## **NOTIFICATION OF SOCIAL SECURITY NUMBER COLLECTION AND USAGE**

In compliance with Florida Statute 119.071(5), this document serves to notify you of the purpose for the collection and usage of your Social Security number by Indian River State College (IRSC). IRSC collects and uses your Social Security number only if specifically authorized by law to do so or it is imperative for the performance of its duties and responsibilities as prescribed by law. Specifically, IRSC collects your Social Security number for the following purposes:

**Admissions Department**

Federal legislation relating to the Hope Tax Credit makes it mandatory that all postsecondary institutions report student Social Security numbers to the Internal Revenue Service (IRS). This IRS requirement makes it mandatory for colleges to collect the Social Security number of every student. A student may refuse to disclose his or her Social Security number to IRSC, but the IRS is then authorized to fine the student in the amount of \$50.

In addition to the federal reporting requirements, the public school system in Florida uses Social Security numbers as a student identifier (Florida Statutes 1008.386). In a seamless K-20 system it is non-mandatory; however, it is beneficial for postsecondary institutions to have access to the same information for purposes of tracking and assisting students in the smooth transition from one education level to the next. All Social Security numbers are protected by federal regulations Family Educational Rights and Privacy (FERPA).

**Financial Aid Department**

It is mandatory that the Office of Financial Aid at IRSC requires students to submit their Social Security numbers on various forms in order to correctly identify applicants, match each applicant's financial aid record with the student record, and to help coordinate state aid programs with institutional and federal aid programs as authorized by Sections 483 and 484 of the Higher Education Act of 1965, as amended.

**Outreach Programs**

Programs such as the Educational Opportunity Program and College Reach-Out Program are youth outreach projects funded by discretionary grants from the United States or Florida Departments of Education. As such, each project is required to exclusively serve eligible participants that are citizens or nationals of the United States; or are permanent residents of the United States. In order to verify a participant's project eligibility, it is mandatory that Social Security numbers are collected and also later used when submitting information for the Annual Performance Reports due to the United States or Florida Department of Education.

**Workforce Programs**

It is mandatory that these programs use Social Security numbers as an identifier for program enrollment and completion. Also, Social Security numbers are used for entering placement information into either the OSMIS or the Employ Florida Marketplace statewide data collection and reporting system. Because these are performance based contract programs, it is required that all participants and their program related activities be recorded in the Florida state system.

**Continuing Education, Corporate & Community Training Institute (CCTI)**

Because of Florida State Board of Education reporting requirements and Department of Business and Professional Regulations reporting requirements, it is mandatory for students who enroll in Continuing Education and/or CCTI courses and/or customized training seminars to submit their Social Security number.

**Library**

It is mandatory that student, faculty, and staff Social Security numbers are used in the libraries' patron database (LINCC) for online login authentication, patron verification and the elimination of duplicate records.

**State and Federal Reporting**

It is mandatory that the College collects Social Security numbers to periodically report student/employee level data to federal and state agencies for research and data collection.

**Testing**

It is mandatory that the College collects Social Security numbers for the purpose of reporting state and national standardized testing results, including but not limited to: TABE, GED, FTCE, ACT, CLEP, HOBET.

**Miscellaneous**

It is mandatory to collect Social Security numbers for agency third party billings, payment collections, state and federal data collection, tracking, benefit processing, tax reporting, and for identification and verification.

To protect your identity, IRSC will secure your Social Security number from unauthorized access and assign you a unique student identification number. This unique identification number will then be used for all associated employment and educational purposes at IRSC.

Copies of the full IRSC Notification of Social Security Number Collection and Usage document can be obtained from Student Services at all IRSC campuses and at the IRSC website at [www.irsc.edu](http://www.irsc.edu).

**COLLEGE LEVEL ACADEMIC SKILLS (CLAS)  
PERFORMANCE STANDARDS**

For students who graduate after July 1, 2009, the following alternatives will fulfill the College Level Academic Skills (CLAS) competency requirement in addition to other current requirements for the Associate in Arts Degree:

1. Scores on the American College Testing Program (ACT):
  - Math - Achieve 21 or above on the enhanced ACT in Math or on the original ACT.
  - Reading - Achieve 22 or above on the enhanced ACT in Reading or a score of 20 or above on the Composite of the original ACT.
  - English Language Skills and Essay - Achieve 21 or above on the enhanced ACT in English or a score of 20 or above on the original ACT.
2. Scores on the Scholastic Achievement Test (SAT-I):
  - Math - Achieve 500 or above on the recentered score scale, or its equivalent on the original score scale, meets Computation requirements.
  - Verbal - Achieve 500 or above on the recentered score scale, or its equivalent on the original score scale, meets Reading, English Language Skills and Essay requirements.
3. Scores on the Florida Entry Level Placement Test:
  - Math - Achieve 91 or above.
  - Reading - Achieve 93 or above.
  - Writing - Achieve 105 or above.
4. Grade Point Average (GPA):
  - English Language Skills - Achieve a 2.5 GPA in two (2) courses for a minimum of six (6) hours of credit from ENC 1101 and select one from ENC 1102, ENC

- 1107, ENC 2210, AML 2010, AML 2020, ENL 2012, ENL 2022, LIN 2670, LIT 2110, LIT 2120.
- Math skills - Achieve a 2.5 GPA in two (2) courses for a minimum of six (6) hours of credit from any of the following math courses: MAC 1105, MAC 1114, MAC 1140, MAC 2233, MAC 2234, MAC 2311, MAC 2312, MAC 2313, MAD 2104, MAP 2302, MAS 2103, MTG 2106, MGF 2107, STA 2023.
- 5. College Level Exam Program (CLEP):  
Achieve minimum acceptable scores as required on English or Math exams to be transferred in for degree credit.
- 6. Waiver by CLAS Committee for students with documented specific learning disabilities and other extenuating circumstances.

## GRADUATION/DEGREE AUDIT

### APPLYING FOR GRADUATION

Students nearing completion of required courses for their degree program should contact the Educational Services Division or any IRSC campus and request a degree audit or electronically print their degree audit through the Florida Academic Counseling and Tracking for Students (FACTS) at [www.facts.org/](http://www.facts.org/). The student should review the degree audit with an advisor/counselor. When registering for the final classes needed for the degree, the student completes and submits a Graduation Application for preliminary approval. The application for graduation must be signed by an advisor/counselor.

### COMMUNICATIONS AND COMPUTATION REQUIREMENT (GORDON RULE)

The Gordon Rule requires that prior to receipt of an A.A. Degree from a public community college or university, or prior to entry into the upper division of a public university, a student shall successfully complete the following:

Six (6) credits of English and six (6) credits of Humanities courses in which the student will demonstrate college-level writing skills through multiple assignments.

Mathematics (College Algebra Level or higher)..... 6 credits

To meet the requirements of the Communications and Computation Requirement (Gordon Rule), all IRSC A.A. Degree-seeking students will complete:

ENC 1101 English Composition I ..... 3 credits

and will select one from the following:

ENC 1102 English Composition II ..... 3 credits

ENC 1107 Advanced College Writing ..... 3 credits

ENC 2210 Technical Communications ..... 3 credits

AML 2010 American Literature to 1865..... 3 credits

AML 2020 American Literature after 1865 ..... 3 credits

ENL 2012 English Literature to 1798..... 3 credits

ENL 2022 English Literature after 1798 ..... 3 credits

LIN 2670 Linguistics and English Grammar ..... 3 credits

LIT 2110 World Literature: Homer-Renaissance..... 3 credits

LIT 2120 World Literature: Renaissance-Present ..... 3 credits

Students will select two of the following Humanities courses demonstrating college-level writing skills through multiple assignments:

AML 2010 American Literature to 1865..... 3 credits

AML 2020 American Literature after 1865 ..... 3 credits

ARH 1000 Art Appreciation..... 3 credits

ARH	2050	History of Art (Prehistoric through Gothic).....	3 credits
ARH	2051	History of Art (Renaissance through Modern).....	3 credits
ENC	2133	Research Writing.....	3 credits
ENG	1123	History of Film I .....	3 credits
ENG	1124	History of Film II .....	3 credits
ENL	2012	English Literature to 1798.....	3 credits
ENL	2022	English Literature after 1798.....	3 credits
HUM	1233	Humanities Literature: Baroque to Present .....	3 credits
HUM	1533	Humanities Philosophy.....	3 credits
HUM	1541	Humanities Literature.....	3 credits
HUM	2512	Humanities Fine Arts .....	3 credits
IDS	1110	The Pursuit of Knowledge.....	3 credits
ISC	2133	Scientific Entrepreneurship.....	3 credits
IDS	1955	Interdisciplinary Study Abroad .....	3 credits
LIT	2110	World Literature: Homer-Renaissance.....	3 credits
LIT	2120	World Literature: Renaissance-Present .....	3 credits
MUL	2010	Survey of Music Literature.....	3 credits
MUL	2012	Survey of Music Literature-Musical Theater.....	3 credits
MUY	2100	Humanities: Music & Music Therapy.....	3 credits
ORI	1001	Oral Interpretation.....	3 credits
PHH	2060	History of Philosophy: Ancient and Medieval .....	3 credits
PHH	2403	History of Philosophy: Modern .....	3 credits
PHH	2603	History of Philosophy: Contemporary.....	3 credits
PHI	1002	Philosophical Practice.....	3 credits
PHI	1010	Introduction to Philosophy.....	3 credits
PHI	1103	Critical and Creative Thinking .....	3 credits
PHI	1635	Ethical Issues in Health Care .....	3 credits
PHI	1801	Philosophy of Art .....	3 credits
PHI	2620	Environmental Ethics .....	3 credits
PHI	2623	Journalism Ethics .....	3 credits
PHI	2630	Introduction to Ethics.....	3 credits
REL	1300	Introduction to World Religions .....	3 credits
SPC	1608	Introduction to Speech Communication.....	3 credits
THE	1000	Introduction to Theatre (Drama) .....	3 credits
THE	2300	Survey of Dramatic Literature .....	3 credits
TPP	1110	Acting .....	3 credits

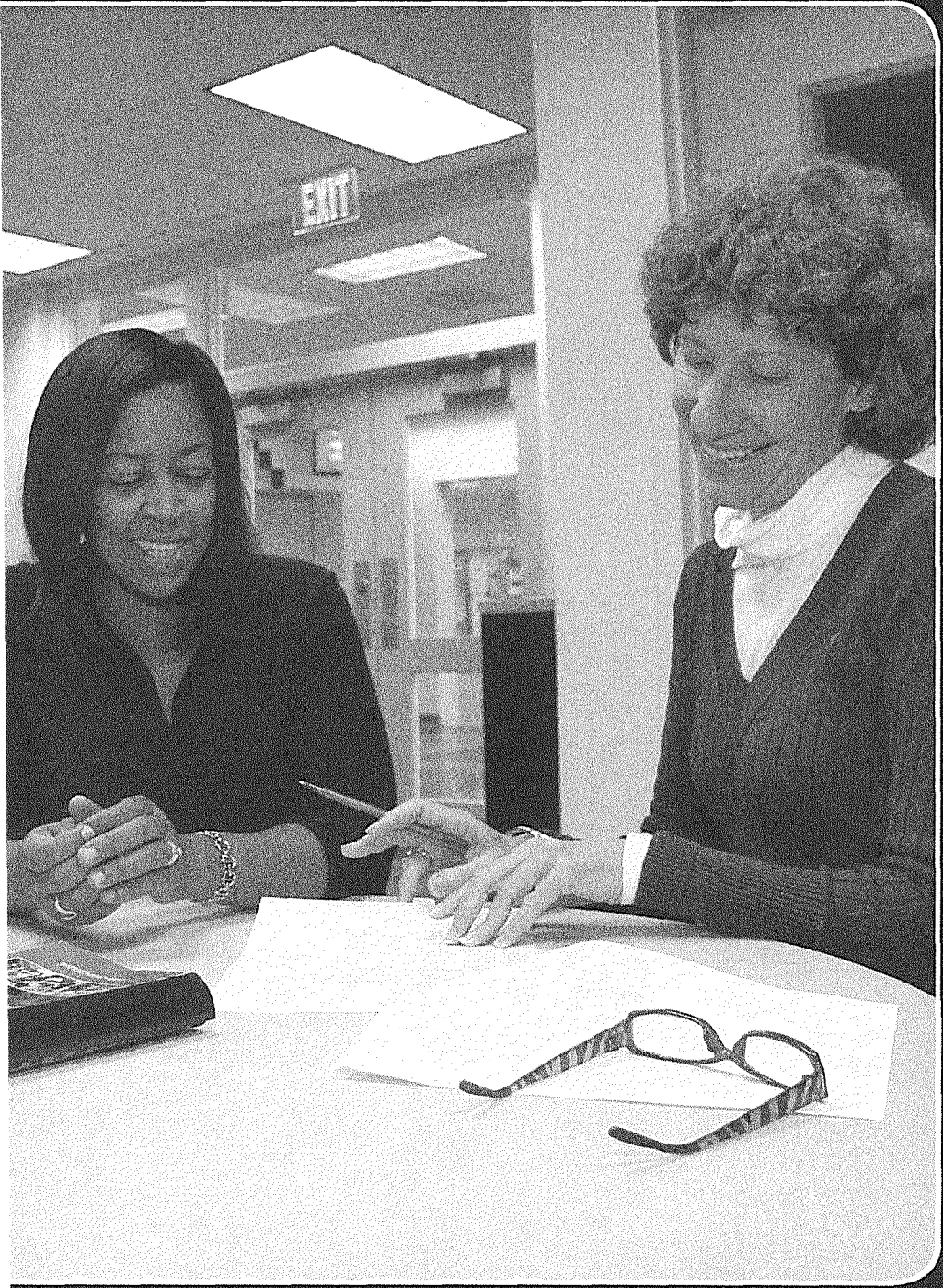
Students will also complete the following:

MAC	1105	College Algebra .....	3 credits
and/or			
MGF	2106	Mathematics for Liberal Arts I.....	3 credits
and/or higher level Mathematics.			

For the purpose of this rule, a grade of “C” or higher shall be considered successful completion.

**COMMENCEMENT**

Graduation from college is a noteworthy event, and IRSC holds an annual Commencement Ceremony at the end of each Spring semester to mark this milestone. Degrees are awarded by the College President and graduates from Fall, Spring and Summer semesters are welcome to participate in the Spring Commencement Ceremony. The deadline to apply to participate in the Commencement Ceremony is listed in the Academic Calendar on page 9 of this Catalog. A nominal fee covers the cost of all graduation regalia. Diplomas will be mailed to graduates from the Admissions and Records Department after final grades are submitted and degrees are posted on the student’s transcript.



**STUDENT SUCCESS SERVICES**

## SERVICES TO HELP YOU SUCCEED

IRSC offers many services to enhance the student's educational experience. The College's Student Handbook/Planner is a helpful tool with a wealth of information about college life and may be obtained in the Student Affairs Office in the Koblegard Student Union at the Main Campus. Students are expected to adhere to the policies and regulations stated in the Student Handbook/Planner.

### CAREER CENTER

With thousands of careers to choose from, many students find the selection overwhelming. For this reason, IRSC provides professional career counseling, interest surveys, and an assessment of skills and abilities through the Career Centers located on the Main Campus, Mueller Campus in Vero Beach, and Chastain Campus in Stuart. An extensive library of books, magazines, and pamphlets offers a wealth of information on existing jobs, the outlook for future employment, the qualifications and characteristics that each job demands, and the rewards and drawbacks of those occupations. The center is equipped with Choices, CareerScope and Bridges software to help students increase their self-awareness and develop career decision-making skills and education plans. Assistance is also provided through the Florida Academic Counseling & Tracking for Students (FACTS) at [www.facts.org](http://www.facts.org) which links academic data for all public universities and community colleges in the State of Florida.

The Career Centers also assist students, alumni and IRSC employees in securing employment in the field of study for which they are trained. Services include assistance in preparing employment applications, resumes and cover letters, interviewing techniques and preparation, employer information, direct job referrals and furnishing resumes to potential employers. Using the new Career Portfolio online tool, students can document jobs and internships, record references and upload their resume to potential employers. A current listing of job openings in the local area is available online and is posted at all IRSC campuses.

### ENROLLMENT ASSISTANCE

Computers are available at all campuses for the convenience of students for online registration, grades, unofficial transcripts, degree audits, credit card payments, FAFSA applications and online college applications.

### E-LEARNING

E-Learningservices extend opportunities to students beyond the traditional classroom. These services are provided by the instructional departments in cooperation with the offices of Educational Services, Institutional Technology, and Academic Affairs.

Indian River State College maintains a satellite downlink used for teleconferencing and educational programming. Hundreds of courses are now available via the Internet. Students may complete assignments and communicate with instructors electronically.

Students may also participate in Live Interactive TV Classes broadcast from the IRSC Main Campus to the IRSC campus closest to them. Students see and hear the instructor at the Main Campus, and the instructor sees and hears them.



E-Learning students are encouraged to use the Florida Academic Counseling and Tracking for Students (FACTS) at [www.facts.org/](http://www.facts.org/) to access online academic resources which include: degree audits, "2+2" degree planning, search programs, transcripts, and career planning.

### **FACTS.org**

FACTS.org, Florida's Academic Counseling and Tracking for Students, is sponsored by the Department of Education and the Florida Center for Advising and Academic Support. This free online service helps students plan and track their educational progress from middle school through college. IRSC students utilize FACTS.org to obtain transcripts, grades, transient student forms, and transfer program admission information. They also use the online service to conduct graduation checks and A.A. Degree transfer evaluations, gather information about career exploration and for many other purposes.

### **STUDENT DISABILITY SERVICES**

Indian River State College provides reasonable accommodations to students with documented disabilities. Substitutions of requirements for admission to programs, graduation, or course waivers, shall be provided to eligible students with documented disabilities in accordance with Sections 1007.02, 1007.264 and 1007.265 Florida Statutes and Florida State Board of Education Rules 6A-10.0311, and 6A-10.041. Students may contact the Student Disability Services Office located in Crews Hall on the Main Campus for additional information and assistance.

Notetakers, testing accommodations, textbooks on CD, readers, assistive technology, scribes, readers, real-time captionists, and sign language interpreters are available through the Student Disability Services Office.

The Student Disability Services Office is a state-designated voter registration agency that provides assistance to applicants with disabilities in completing voter registration application forms and accepts completed voter registration application forms for transmittal to the appropriate election official.

### **NEW STUDENT ORIENTATION**

New Student Orientation is an excellent way to get acquainted with fellow students and all of the opportunities available through IRSC. Orientation familiarizes students with the policies and procedures for the College, the admissions process, financial aid, scholarships, registration, testing, various degrees and certificate programs, and other useful information. Students may register for one of the Orientation sessions that are scheduled throughout each semester by visiting the New Student Orientation homepage ([www.irsc.edu](http://www.irsc.edu)) and clicking on Future Students, New Student Orientation or by contacting Student Success Services on the Main Campus at (772) 462-7469.

### **ACADEMIC SUPPORT CENTERS**

The Academic Support Centers (ASCs) provide extensive free resources and tutorial instruction to assist students in meeting the demands of their academic courses. Services are available at the Main, Mueller, Chastain, St. Lucie West, and Dixon Hendry campuses.

All ASC locations provide academic assistance in English, reading, English for

Academic Purposes, math, science, and health science. Additionally, diagnostic/prescriptive programs are available which are based on specific assessments.

Other services that are designed to enhance a student's learning experience include the ASCs' Academic Workshop Series, the Writing Center, and computer labs.

## **LIBRARIES**

The Miley Library, located on the Main Campus in Fort Pierce, is the center of academic activity for students, faculty, and the campus community. The Library is an integral part of the intellectual life on campus and trained faculty is available to provide individual and group assistance and guidance. The Library offers students vital resources for academic success, including online access to electronic databases, the Internet, e-books, as well as traditional resources. IRSC students and employees also have access to the resources available at libraries throughout Florida using reciprocal agreements or interlibrary loan. The Library is a U.S. Federal Depository Library and receives a large number of Federal documents of interest to the campus community and the citizens of the Treasure Coast.

Electronic Access to Information (LIS 1002) is a recommended college credit course offered each term to teach students how to become information literate in the use of online information resources. Specialized courses are also available in the Internet research, business, legal, education, and medical areas.

## **ST. LUCIE WEST LIBRARY**

Providing a world of information to students and residents of southern St. Lucie County is the St. Lucie West Library at the IRSC St. Lucie West Campus in Port St. Lucie. Operated in cooperation with IRSC, Florida Atlantic University, and St. Lucie County, the library offers an exceptional learning resource center for the Treasure Coast. In addition to the many services and online resources offered at the Miley Library at the Main Campus, the St. Lucie West Library houses book, periodical, and media collections which reflect the college and university curriculum, as well as a diverse collection of current literature.

## **BRACKETT LIBRARY**

The beautiful, new 30,000 square foot joint-use Brackett Library on the IRSC Mueller Campus in Vero Beach opened in October 2009 and is operated as a partnership between IRSC and the Indian River County Library System. In addition, the Marion C. Link Electronic Resource Center provides students with online access to a wealth of information resources, including university and college library holdings, e-books, online databases, and the worldwide resources of the Internet.

## **ROBERT MORGAGE LIBRARY**

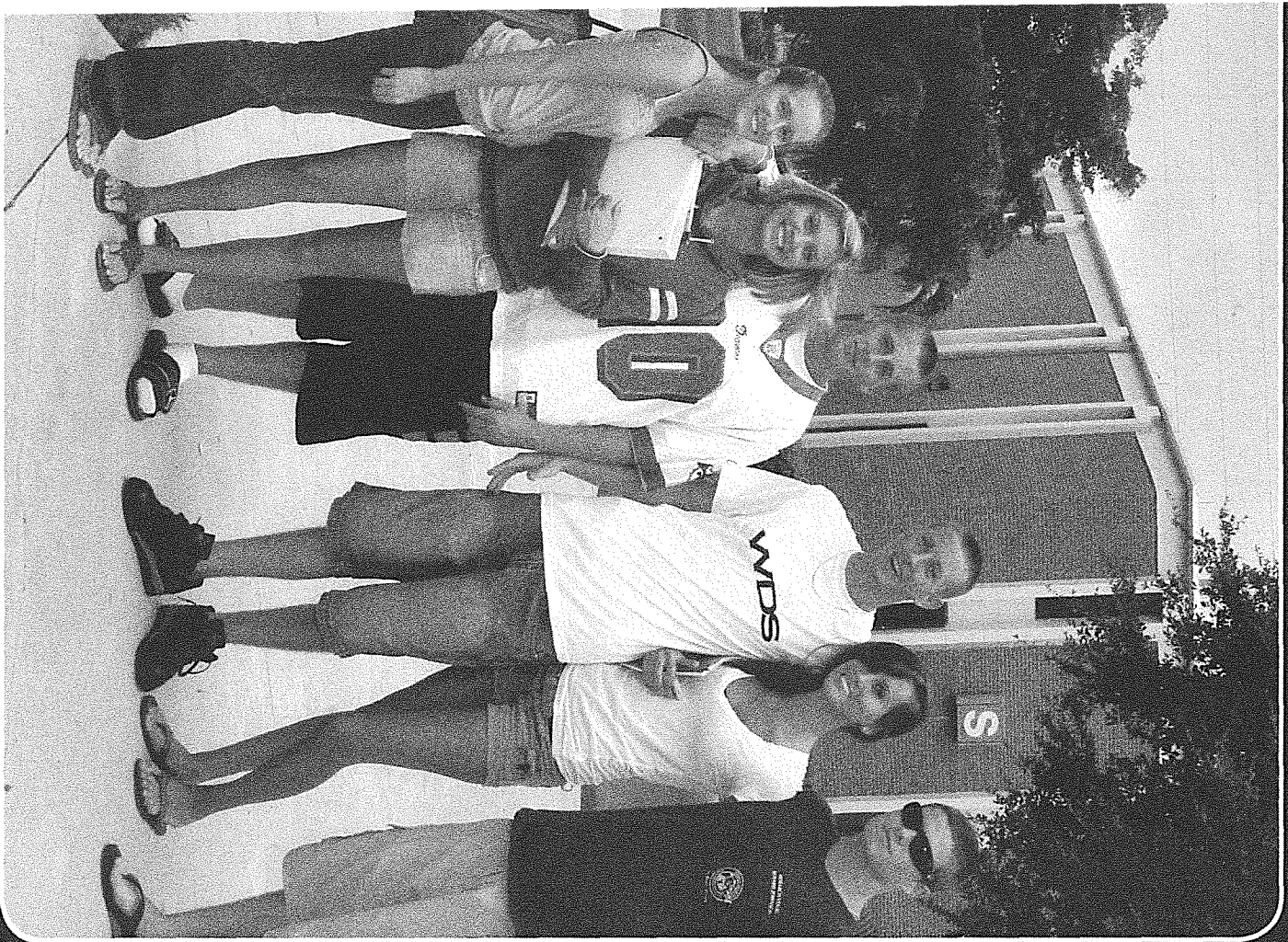
The Robert Morgage Library, a joint-use library partnering with the Martin County Library System, is located on the IRSC Chastain Campus in Stuart. It serves both students and Martin County residents. In addition to the many services and online resources that can be accessed through the Miley Library at the Main Campus, the Morgage Library also houses book, periodicals, and media collections which reflect the college curriculum and Martin County resident interest.

## **DIXON HENDRY LIBRARY**

Dixon Hendry Library is located at the Dixon Hendry Campus in Okeechobee. This facility provides students with online access to a wealth of information resources, including university and college library holdings, e-books, online databases, and the worldwide resources of the Internet.

## **STUDENT SUPPORT SERVICES**

Student Support Services is a federally funded program providing a wide variety of services designed to enhance academic skills, increase retention and grade point averages leading to graduation, and if appropriate, transfer to a four-year college or university. Activities include academic support, personal and career counseling, informational workshops designed to promote college success, individual and group peer tutoring, cultural enrichment events, college/university tours, and book loans. Since Student Support Services is a federally funded program, students selected must meet one of the following criteria: (1) low-income with verifiable financial need; (2) first generation in college; or (3) students with disabilities. Student Support Services is committed to providing student-centered services to maximize the academic potential for each student's success at Indian River State College.



**STUDENTS**

## **STUDENT RESPONSIBILITY**

Indian River State College resembles society as a whole. The students are treated as mature adults who are responsible for their own actions. There are rules and regulations that are followed for the benefit of all, and each person has a right to expect courtesy, integrity, and good citizenship in dealing with others. Dishonesty, such as cheating, plagiarism, or knowingly furnishing false information to the College is subject to disciplinary action. Upon enrollment at IRSC, all students assume the responsibility of compliance and cooperation with College and Campus Coalition Government policies, just as each student is responsible to the larger community, state, and nation in which he/she lives.

The College does not permit the possession or use of alcoholic beverages on campus or at any College function. Possession of illegal narcotics is not allowed and will result in suspension of the student from the College. Gambling is also prohibited. Students who violate the College regulations or who display misconduct either on or off campus can expect appropriate disciplinary measures to be taken; these measures include disciplinary probation, suspension and expulsion. In all disciplinary matters, the decision of the President of Indian River State College is final.

## **KOBLEGARD STUDENT UNION**

IRSC's Koblegard Student Union (KSU) houses a number of student oriented activities and related departments including: the Vice President of Student Affairs Office, the Student Activities Office, the Campus Coalition Government Office, the Health and Wellness Center and the cafeteria. In addition, the KSU serves as the information outlet for student notices, activity bulletin boards and the Lost and Found Department. At the Student Affairs Office you can pick up your student I.D. and parking decal. These are provided at no cost to the student.

## **THE RIVER SHOP (Bookstore)**

The well stocked River Shop bookstores, located on the Main Campus in Fort Pierce, the Chastain Campus in Stuart, the Mueller Campus in Vero Beach, and the St. Lucie West Campus in Port St. Lucie sells new and used textbooks, classroom supplies, and miscellaneous items to students and faculty. As part of a continuing effort to keep the cost of education at IRSC to a minimum, the Bookstore buys and resells used books at the end of each term with two stipulations: books accepted for resale must be in good condition and designated for use in upcoming classes at IRSC.

## **HEALTH AND WELLNESS CENTER**

This Center, located in the Koblegard Student Union, provides a variety of services for students. It is staffed by a full time registered nurse. Emergency medical care, first aid, medical information and referral, and crisis counseling are provided free of charge to all students currently enrolled at IRSC who possess a valid student I.D. card. The promotion of personal well being is the focus of the Center. Literature and audio visual materials are available on a variety of health and wellness topics. In addition, an individual assessment of overall well being is provided to students upon request, along with assistance in the development and implementation of a personal plan of change designed to increase overall wellness.

Florida law now requires that a postsecondary institution provide detailed information concerning the risks associated with Meningococcal Meningitis and Hepatitis B and the availability, effectiveness, and known contraindications of any required or recommended vaccine to every student, or to the student's parent if the student is a minor, who has been accepted for admission. Contact the Health and Wellness Center for additional information.

## **INSURANCE**

The College offers students access to student accident and illness insurance coverage underwritten and administered by independent insurance companies. Insurance coverage is designed for college students and subject to the terms of the specific plan. Some Selective Admissions programs require accident and/or liability insurance. For more information contact the Health and Wellness Center.

## **STUDENT EMAIL**

New students need to activate their free RiverMail (email) account at [www.irsc.edu/RiverMail](http://www.irsc.edu/RiverMail). The RiverMail system is the official means of electronic communication for student information. Students should check their account regularly for important registration, financial aid, and student services updates.

## **STUDENT ID CARDS**

To obtain a free IRSC Student I.D., bring a current class schedule and receipt showing payment of tuition along with a valid photo I.D. to the Student Affairs Office (KSU-112). A current, valid IRSC Student I.D. is required to check out materials from the IRSC libraries, gain entry to athletic and other college events, receive various student services and to utilize campus recreation facilities. A student should always carry his/her IRSC Student I.D. as it also serves as a form of validation that identifies an Indian River State College student for departments or college officials needing student verification. There is no charge for the initial card, however, there is a fee for a replacement card. It is a violation of Student Regulations to have two current I.D. cards in your possession at any time.

## **STUDENT HOUSING - "THE RIVER HAMMOCK"**

Located at the IRSC Main Campus is "The River Hammock," the student residence facility owned and operated by the Indian River State College Foundation, Inc. Each fully furnished apartment includes a central living room, dining room and kitchen, as well as four private bedrooms and two baths. Open only to students enrolled at IRSC, "The River Hammock" offers convenience, comfort, and an environment conducive to studying - all at an affordable price. Information and lease forms for "The River Hammock" are available through the IRSC Foundation Office located in the Ben L. Bryan Administration Building on the Main Campus.

## **TRANSPORTATION AND PARKING**

Most students who attend IRSC travel to campus via a motor vehicle. Students driving vehicles on the IRSC campus should review and familiarize themselves with the Traffic and Parking regulations in the IRSC Student Handbook/Planner that is available at:

- Student Orientation Sessions
- Student Services

- Student Affairs/Student Activities
- on the Web at [www.irsc.edu](http://www.irsc.edu)

Vehicles parked at the IRSC Main Campus in Fort Pierce must display an IRSC parking decal on the rear bumper. Decals are available (at no charge) in the Student Affairs Office in the Koblegard Student Union. **Students should pay particular attention to parking spaces marked RESERVED; these spaces are not for student use. Students parking in a marked RESERVED space may be ticketed and/or towed away by a private towing service.**

Students **MAY** park in a designated RESERVED parking space after 5:00 p.m. or on a Saturday or Sunday.

Unauthorized parking in:

- marked handicapped only spaces
- fire lanes
- loading zones
- service vehicle parking spaces
- on the grass or sidewalks
- any area marked with yellow striping

is prohibited at all times and may subject a violator to ticketing and/or towing of the vehicle.

Parking and traffic control regulations are established to regulate the safe flow of pedestrian and vehicular traffic. Drivers must adhere to all posted traffic control regulations and any verbal traffic directions of a College Security Officer. College Security Officers are authorized by Florida State Statute and the District Board of Trustees to enforce parking and traffic regulations and issue citations for violations. Failure to adhere may result in ticketing, towing or suspension of driving privileges on the Campus.

Failure to satisfy outstanding traffic violations may result in suspension of registration privileges and/or denial of an official transcript.

## CHILD CARE CENTER

Students who have young children may utilize the services of the IRSC Child Care Center located at the Main Campus. Staffed by well-qualified and experienced teachers, as well as IRSC Child Care students, the Center maintains a structured, creative pre-kindergarten program for two, three, and four-year olds. Offered at a reasonable cost and open each day that college classes are scheduled, except during the Summer II Session, the Child Care Center provides worthwhile learning experiences and a caring environment for young children while their parents attend classes at IRSC.

## STUDENT ACTIVITIES

Although classes and coursework are the top priorities at IRSC, they are only one part of the student's education. The mission of the Student Activities Department is to "Develop the Whole Student". IRSC offers 50+ on-campus clubs for just about every interest, opportunities to develop leadership skills, professional and honorary societies and a well respected intercollegiate sports program. Campus activities are meant to enhance and expand the total learning experience available to all IRSC students. All students are encouraged to participate in the activities of their choice. IRSC clubs

and organizations are governed by Board policies and administrative procedures to ensure compliance with state and local laws and promote the safe and efficient operation of the college. Students can refer to the Student Handbook/Planner for a listing of these procedures or visit the Student Activities Office located in the Koblegard Student Union on the Main Campus in Fort Pierce. Information is also available online at [www.irsc.edu](http://www.irsc.edu), click on Students on the menu bar, then scroll down and click on the **Student Activities** link under the Support Services heading.

Each year at the beginning of Fall Semester, a Student Leadership Conference is conducted to encourage the development of leadership skills. Incoming freshmen who have been recommended by their high school counselors and other interested students who plan to attend IRSC during the Fall Semester are invited to participate. Students who attend the conference are then eligible to become a part of the Student Leadership Institute which is a series of workshops held throughout the school year. Students are also required to participate in community service activities.

## **AMBASSADOR CLUB**

The Ambassador Club provides outstanding students with the opportunity to represent and assist the College at official campus and community functions. These students function in a public relations capacity for the College and serve as role models for other students. Ambassadors greet College guests, serve as tour guides on campus, and answer questions about IRSC.

Ambassadors are selected based on grades, recommendations, and involvement with IRSC activities. Student Ambassadors have an opportunity to meet interesting people while learning valuable skills. This experience enables student leaders to develop poise and leadership skills while providing assistance at a variety of College functions.

## **CAMPUS COALITION GOVERNMENT**

The Campus Coalition Government (CCG) is the official student government of Indian River State College. The CCG is a member of the Florida Junior College Student Government Association and was named the “Best College Student Government Association in the State” in 1993, 2001 and 2002 by *Florida Leader* magazine.

Representatives who serve as members of the Campus Coalition Government are elected or appointed to represent each of the student clubs on campus. Communication is a key purpose of the CCG. It serves as the coordinating board between the various groups of students on campus and the administration of the college. All student activities must have the approval of the CCG to coordinate their events and place them on the calendar. The CCG holds its formal general assembly meetings on alternating Wednesdays (see Student Handbook/Planner or online at [www.irsc.edu](http://www.irsc.edu) and click on Students on the menu bar, then scroll down and click on the **Student Activities** link under the Support Services heading for dates and locations).



## CLUBS AND ORGANIZATIONS

Achiever's Club	Human Services Club
African American Male Leadership Club	Humanitarian Studies Association
Ambassador Club	Interior Design Club
Asian Cultural Group	International Club
Athletic Teams:	Kai Club
Baseball	Kappa Delta Pi
Basketball (Men)/(Women)	Lambda Nu Honor Society
Diving	Media and Culture Club
Softball	Medical Assisting Club
Swimming	Medical Laboratory Technology
Volleyball	Model United Nations Club
Brain Bowl Club	Music Club
Campus Coalition Government	Nursing Student Association
Catholic Newman Club	Outreach Club
Chinese Culture Club	Phi Beta Lambda
Christian Student Fellowship Club	Phi Theta Kappa
Cosmetology Club	Philosophy
Cultural Exchange Club	Practical Nursing Club
DECA (Delta Epsilon Chi)	River Readers Book Club
Delta Mu Epsilon (Math Club)	Salsa Club
English Club	SAM (Student Assistance Mentorship)
Florida Water Environment Association	Science Club
Future Educators Club	Service Learning Club
German Club	Spanish Club
Golf Club	Student Council for Exceptional Children
Graphic Design Club	Student Mentoring Club
Haitian Cultural Group	Student Veteran Organization
Health Occupation Students of America	Theater Scholars
Hip Hop Dance Club	Tomeu Center Mentors Club
History Club	White Angels Club
Honors Club	World Religions Club

### PHI THETA KAPPA

As a society which honors high academic achievement, the Nu Iota Chapter of the Phi Theta Kappa National Scholastic Fraternity promotes scholarship, encourages the development of character, and cultivates fellowship among students of community colleges, and facilitates the award of other forms of recognition for outstanding students.

To be eligible for membership in Phi Theta Kappa, IRSC students:

- a. must have successfully completed at least 15 semester hours of college credit coursework at IRSC;
- b. must be currently enrolled as degree-seeking students in at least 12 semester hours of college credit courses; and
- c. must have a current cumulative grade point average of 3.5 or higher.

In order to maintain membership IRSC students must successfully complete at least 9 semester hours of college credit coursework each semester and maintain a cumulative grade point average of 3.25 or higher. If a member of Phi Theta Kappa drops below these academic standards, he/she will be given one semester in which to restore his/her GPA and/or successful course completion to the required levels. If the standards to maintain eligibility are not met after one semester, the student will be removed from PTK membership.

Invitations to apply for membership in Phi Theta Kappa are issued to eligible students each semester. Students accepted into Phi Theta Kappa are honored at an annual induction ceremony, presented with a PTK honors medallion, recognized as PTK members at the Spring Commencement Ceremony, and have the opportunity to apply for many state and national transfer scholarships designated specifically for PTK members.

## **INTERCOLLEGIATE ATHLETICS**

As a member of the National Junior College Athletic Association and Florida Community College Activities Association, IRSC competes on a statewide and national level in men's and women's basketball, swimming and diving, men's baseball, women's softball, and women's volleyball. Grants-in-aid are available in all sports. Although academics never take a backseat to athletics at IRSC, the athletic teams receive the administrative support and backing necessary to perform to the best of their abilities.

The men's swimming and diving team holds the distinction for winning the most consecutive national championships by any college or university in the United States in any intercollegiate sport. The men's team won its 36th consecutive national championship and the women's team won its 32nd national championship at the 2010 NJCAA meet. In 1990, 1996, and 2003, the teams were recognized in *Sports Illustrated* magazine.

The IRSC baseball team has also gained national prominence, winning four Florida State championships in 1979, 1993, 1995, and 1996, and qualifying to compete in the JUCO World Series. In 2002, the IRSC softball team won the NJCAA National Fast Pitch Softball Championship title.

IRSC's basketball and volleyball teams consistently distinguish themselves in Southern Conference and state competition. IRSC men's and women's basketball teams were Southern Conference Champions in 2007 and 2010 with the men also winning in 2008, and the women winning in 2009. The IRSC Volleyball Team participated in the 2002 State Tournament after being ranked in the top 10 all year.

IRSC boasts a state-of-the-art Baseball/Softball Complex as home field to the IRSC Baseball and Softball teams. The complex features two fenced-in fields and two electronic scoreboards. With its gymnasium, world-class aquatic complex, racquetball and tennis courts, and weight training facility, IRSC encourages the well-rounded development of its students.

## **INTRAMURAL SPORTS**

Every student who attends IRSC has the option of participating in some type of recreational sport or activity through the Intramural Program. Intramural events are planned, administered, and carried out by students, and it is the students' friendly

rivalry in many different forms of competition which makes the program fun.

A few extramural athletic events are held with other area community colleges and are separate from Intercollegiate Athletics. Most events are played Tuesdays and Thursdays, 12:40-1:40 p.m.

## **PERFORMING ARTS**

Cultural enrichment is a vital part of every person's education, and students are provided with many cultural activities at IRSC. Music and drama students participate in the production of plays and musicals many times each year in the McAlpin Fine Arts Center, a professional quality 620 seat theatre, and the Wynne Black Box, a versatile venue that seats 75-100 patrons. Student performance groups include the song and dance troupe "Company," the Jazz Band, Symphonic Band, College Chorale, Theatre Program, and Theatre Touring Group.

The Performing Arts Series brings professional entertainers to campus each year. Such notable and diverse performers as songstress Judy Collins, entertainer/singer/comedian Vicki Lawrence, country star Lee Greenwood, the world famous Manhattan Transfer, singer/dancer Sandy Duncan, singer/songwriter Rita Coolidge, and Robert Wagner and Jill St. John have entertained IRSC students and the public.

## **WQCS-FM 88.9**

Classical music, in-depth news and public affairs, and cultural programming are brought to the Treasure Coast by WQCS, IRSC's public radio station. Staffed by professionals and volunteers, WQCS is a member of National Public Radio and has won numerous awards for broadcasting excellence.

## **ALUMNI RELATIONS**

Affiliation with IRSC continues well after Commencement. The Indian River State College Alumni Association was established to meet the needs of IRSC alumni. Administered by the IRSC Foundation, Inc., the Alumni Association maintains an electronic database of IRSC alumni and provides updates and current events at the College via periodic electronic newsletters. In addition, the IRSC Foundation identifies resources at IRSC that will enhance personal and professional goals of IRSC alumni. The IRSC Foundation welcomes alumni to visit the Foundation Office on Main Campus to share information and suggestions for making the College and community a better place to live and learn. The Foundation's Web site, [www.irscfoundation.org](http://www.irscfoundation.org), offers a variety of options for IRSC alumni, including searching the alumni directory, purchasing a commemorative brick on Alumni Row, and accessing the *Connections Newsletter*, along with reviewing the arts and events schedules.

## **HARASSMENT/DISCRIMINATION**

### **Purpose**

The purpose of this Administrative Procedure (AP-3.131) is to support the IRSC District Board of Trustees Policy number 6Hx11-3.13 by rendering a process through which a complaint may be filed toward resolution of issues, and may be pursued in a fashion devoid of coercion, interference, restraint, discrimination or reprisal.

This procedure shall apply only to harassment or discrimination complaints based on race, gender, color, national or ethnic origin, religion, age, disability, veteran or marital status, and/or sexual orientation.

**Definitions**

- a) Complainant/s: An individual, or group of individuals expressing a complaint. Complainants may be students, full-time, part-time or temporary employees; employment applicants; and/or non-employee volunteers.
- b) Complaint: A dissatisfaction wherein a person feels he/she has been adversely affected by discriminatory actions and/or harassment at the College.
- c) Complaint Intake Persons: These are the individuals to whom an initial complaint/concern is to be reported as the first step in pursuing resolution. The proper individuals for this purpose are 1) the Health and Wellness Coordinator in the Office of Student Affairs, or 2) the Equity Coordinator/ Dean of Minority Affairs located in the Office of Minority Affairs.
- d) Discriminate: To act with partiality or prejudice either for or against a person or group, based upon race, gender, color, national or ethnic origin, religion, age, disability, sexual orientation, veteran or marital status.
- e) Evidence: As applied in this procedure, any information, including documents and testimony, which relate to the alleged circumstances that gave rise to the complaint.
- f) Respondent/s: The individual, or group of individuals, against whom the complaint is filed.

**Filing a Harassment/Discrimination Complaint**

Indian River State College and its District Board of Trustees strongly encourage any student who believes that he or she has been subjected to discrimination and/or harassment at the College to immediately bring it forward to one of the two designated Complaint Intake Persons. Such discussion should include as much information as possible, including names and positions of persons involved; identification of witnesses if any; the time, place and details of the incident leading to the allegations; etc. In no case will a Complainant be required to report such behavior to the alleged Harassing Party (the Respondent).

In the event that a faculty member, adjunct faculty member, or any other college employee may receive a complaint concerning harassment directly from a student, he/she must immediately inform an appropriate Intake Person.

Should an employee be involved, reference is to be made to the "Employee Harassment/Discrimination Procedure, AP-3.131" for designated Complaint Intake Persons and their locations on Campus, as well as the "Responsible Authorities."

Failure of any employee of this college to immediately notify the appropriate individuals of suspected or disclosed discrimination/harassment allegations will be considered to be a serious violation of accountabilities with regard to the Harassment/Discrimination Policy and Procedures, and subject to disciplinary actions.

**Complaint Investigation**

The issues generating the complaint are first discussed with an Intake Person in order to determine that the situation properly fits into the purview of these specific Policy and Procedural provisions. Intake will explain the formal investigative process about to be entered into, should the complaint be eligible and desired by the Complainant to move

forward to the Vice President of Student Affairs, as the Responsible Authority vested with investigative duties.

The Complainant must complete and sign a "Harassment Report Form" to be provided to the Vice President of Student Affairs that covers the details of the conduct and circumstances of the complaint. The Complainant must file a complaint within 60 days of the incident.

The Vice President of Student Affairs will then conduct an actual investigation of the charges being made.

In the event that an employee is involved in the complaint along with a student, the Vice President of Student Affairs will partner with the Dean of Human Resources in a joint investigation process.

**The Respondent will be provided with a copy of the Complainant's written complaint as stated in the "Harassment Report Form".**

Any persons thought to have information or evidence relevant to the complaint shall be interviewed and such interviews shall be appropriately documented. Students and involved employees are expected to cooperate in providing requested information. Other acceptable methods for gathering information include, but are not limited to, visual inspection of offensive materials and follow-up interviews as necessary.

In determining whether the alleged conduct constitutes sexual harassment, the totality of the circumstances, the nature of the conduct, frequencies, and the context in which the alleged conduct occurred will be investigated.

The investigation of the complaint must be concluded within a reasonable period of time. The institution will make every effort to complete a thorough investigation as expeditiously as possible. In any case, this will be in no more than twenty working days after the receipt of the written "Harassment Report Form," unless otherwise agreed upon by the Complainant and the Responsible Authority or Authorities.

Within five days of the completion of the investigation, the Vice President of Student Affairs will prepare a written Complaint Resolution Report. The Complaint Resolution Report shall include the: basis of the complaint; issues and facts surrounding the dispute; summary of investigative findings, including interviews; recommendations/dispositions of inquiry; proposed disciplinary penalty (if any); basis for recommended action.

The Complaint Resolution Report will be presented and explained to both the Complainant and the Respondent in separate debriefing meetings. Findings and the resulting official actions to be taken, if any, will be discussed. Should disciplinary actions be determined to be in order, additionally appropriate individuals must be made aware at this time, in order to carry out the recommended actions and/or disciplinary procedures.

The College President will be fully advised from the outset of the Complaint being lodged, and will also be given a copy of the final Complaint Resolution Report.

**Confidentiality:** Confidentiality shall be maintained to the greatest extent possible within the law and the requirements for conducting appropriate investigations.

**Retaliation:** Retaliation against individuals who have filed a charge or participated in an investigation or opposed any unlawful practice is prohibited and will subject the person who retaliates to disciplinary action.

**Disciplinary Actions:** Any employee or student of this College who is found to have harassed another employee or student will be subject to disciplinary action up to and including termination, suspension, and or expulsion within the provisions of applicable Board policy.

**False or Malicious Complaints:** Any student or employee of this College, who may be found to have acted dishonestly or maliciously in making Complaint allegations, or in their actions or witness statements during an official investigation, shall be subject to possible disciplinary action.

**Prevention:** Indian River State College and its Board of Trustees recognize that prevention is the best tool for the mitigation of discriminatory actions and sexual harassment issues emerging. Therefore, the College and its Board will take necessary steps toward prevention, including, but not limited to:

- Establishing and publishing the Indian River State College Harassment/Discrimination Policy and companion Administrative Procedure with regard to reporting
- Inclusion of policy/procedure information in student and employee handbooks and on college intra-net
- Fostering Cultural Intelligence by making available educational materials that address appreciation of diversity and cultural differences
- Including distribution of subject Policy and Procedure during student and new employee orientations
- Including diversity training and discrimination/sexual harassment awareness training, during student and new employee orientations
- Ensuring refresher training on the prevention of both discrimination based harassment and sexual harassment is established and offered to students and employees



## **PROGRAMS**

## PROGRAMS OF INSTRUCTION

The major programs of instruction available at Indian River State College are organized as follows:

- Bachelor of Science Degree
- Bachelor of Applied Science Degree
- Associate in Arts Degree
- Associate in Science Degree
- Associate in Applied Science
- Technical Certificate
- Advanced Technical Certificate
- Applied Technology Diploma
- Post Secondary Adult Vocational Certificate
- Adult Education
  - ◊ Adult High School
  - ◊ GED Preparation
  - ◊ Adult Basic Education, English as a Second Language

Indian River State College is on a semester schedule, Fall, Spring, Summer I and Summer II. This permits a student to enter IRSC at various times of the year and to complete the program in his/her own time frame.

## VOCATIONAL PREPARATORY INSTRUCTION

Students who are enrolled in a post secondary adult vocational program greater than 180 clock hours must complete a basic skills examination within the first 6 weeks after admission to the program. The Test of Adult Basic Education (TABE) is administered by the Assessment Services Department at each IRSC campus. Students are encouraged to test prior to the beginning of their program. Minimum basic skills grade levels in mathematics and language must be met. Any student scoring below the acceptable levels must be provided with instruction to correct identified deficiencies. At the completion of preparatory instruction, the student will be retested.

## COLLEGE PREPARATORY INSTRUCTION

Based on Florida Entry Level Placement Test scores, a student may be placed in college preparatory classes in English, mathematics, and/or reading. A student must progress from college preparatory to college level coursework within two attempts in each of the courses. The direct instructional cost will be charged to the student after the second attempt in each college preparatory course. Students with documented extenuating circumstances may file an appeal with the Assistant Dean of Educational Services or any Campus Provost for consideration and review. College preparatory courses may not be used to meet degree requirements. IRSC requires completion of SLS1101/Student Success for Associate in Arts Degree students who must take two or more college preparatory courses or whose College Placement Test indicates placement at a Level I College Preparatory Course. This course must be taken during the student's first semester at IRSC. College Preparatory courses can be taken while enrolled in SLS1101/Student Success. Alternative instructional opportunities are available for college preparatory instruction. See displays located at any IRSC campus registration office.



## GENERAL EDUCATION REQUIREMENTS

Students pursuing Associate degrees satisfy General Education requirements by taking specified courses as well as courses which introduce the student to majors.

General Education courses, completed at the freshman and sophomore levels of college, teach students a broad base of knowledge, develop higher order thinking skills and are considered essential for effective participation of a citizen in the community. While providing these necessary common understandings, skills, and competencies, General Education also serves as a foundation for further studies. Therefore, a course of study should include appropriate academic subjects and supplementary activities to provide the student not only with a vocation, but with a better understanding of himself/herself and a higher regard for others. One important and specific way to realize this philosophy is to guarantee teaching of the highest caliber. Through the General Education requirements within the Associate in Arts Degree, the student will be able to:

- communicate with clarity and precision
- make use of technology to organize, acquire, and convey information
- develop a wide range of global, social and cultural points of view and apply various perspectives to analyze human behavior
- develop awareness of diverse ethical perspectives
- understand and exhibit civic engagement and social responsibility
- apply critical thinking through problem-solving

## ELECTIVES

Electives are courses which complement or enhance the student's program of study. Specific electives may be required for upper-division transfer. IRSC's advisors/counselors can assist the student in selecting electives that fit their course of study.

## FLORIDA'S STATEWIDE COURSE NUMBERING SYSTEM

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System (SCNS). This numbering system is used by all public postsecondary institutions in Florida and 26 participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. Students and administrators can use the online Statewide Course Numbering System to obtain course descriptions and specific information about course transfer between participating Florida institutions. This information is at the SCNS website at <http://scns.fldoe.org>.

Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have a meaning in the Statewide Course Numbering System (SCNS). The list of course prefixes and numbers, along with their generic titles, is referred to as the "SCNS taxonomy." Descriptions of the content of courses are referred to as "statewide course profiles."

**EXAMPLE OF COURSE IDENTIFIER**

Prefix	Level Code (first digit)	Century Digit (second digit)	Decade Digit (third digit)	Unit Digit (fourth digit)	Lab Code
ENC	1	1	0	1	
English Composition	Lower (Freshman) level at this institution	Freshman Composition	Freshman Composition Skills	Freshman Composition Skills I	No laboratory component in this course

**GENERAL RULE FOR COURSE EQUIVALENCIES**

Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions. (Exceptions are listed below.)

Transfer of any successfully completed course from one institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, ENC 1101 is offered at a community college. The same course is offered at a state university as ENC 2101. A student who has successfully completed ENC 1101 at the community college is guaranteed to receive transfer credit for ENC 2101 at the state university if the student transfers. The student cannot be required to take ENC 2101 again since ENC 1101 is equivalent to ENC 2101. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent.

**AUTHORITY FOR ACCEPTANCE OF EQUIVALENT COURSES**

Section 1007.24(7), Florida Statutes, states: Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required

by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.

### **EXCEPTIONS TO THE GENERAL RULE FOR EQUIVALENCY**

The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution.

- A. Courses not offered by the receiving institution
- B. For courses at non-regionally accredited institutions, courses offered prior to the established transfer date of the course is question.
- C. Courses in the \_900-999 series are not automatically transferable, and must be evaluated individually. These include such courses as Special Topics, Internships, Practica, Study Abroad, Thesis and Dissertations.
- D. College preparatory and vocational preparatory courses.
- E. Graduate courses.
- F. Internships, practica, clinical experiences and study abroad courses with numbers other than those ranging from 900-999.
- G. Applied courses in the performing arts (Art, Dance, Interior Design, Music and Theatre) and skills courses in Criminal Justice are not guaranteed as transferable.

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to the Curriculum Support Services Office at the IRSC Main Campus or the Florida Department of Education, Office of Articulation, 1401 Turlington Building Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling Statewide Course Numbering System at (850) 245-0427, or via the Internet at <http://scns.fldoe.org>.

### **TIME-SHORTENED DEGREE OPPORTUNITIES**

Credit may be awarded for students who participate in national testing programs. Florida Statutes, 240.4015, requires the Florida Articulation Coordinating Committee to establish passing scores and course and credit equivalents for College-Level Examination Program (CLEP), Advanced Placement (AP), and International Baccalaureate (IB). Public community colleges and universities in Florida are required to award credit for these exams as approved and published by the Articulation Coordinating Committee. These standards can be located at [www.facts.org/](http://www.facts.org/) or a student can consult with an advisor/counselor for information.

Credit for DANTES/DSST, or Excelsior (formerly Regents or PEP) will be considered on an individual basis and must be appropriately related to the student's current educational goals.

Credit awarded may not duplicate other credit and a student may not receive more than 45 semester hours credit through all examination programs.

### **COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)**

Since many community college students are adults without an opportunity to enter an advanced placement program, but with broad and varied backgrounds, Indian River State College will consider results of the CLEP for credit by examination. This program, as described in CLEP's descriptive brochure, was developed "to provide a

national program of examinations that can be used to evaluate nontraditional college level education, specifically including independent study and correspondence work." Information regarding CLEP Exams is available at <http://www.collegeboard.com/>.

To assist members of the community in taking advantage of this opportunity, IRSC functions as an area test center. Application to take the examination can be made directly to the Educational Services Division or any IRSC campus.

Official scores from Educational Testing Service must be presented to the Educational Services Office to have the credit applied to the student's program of study.

To receive the maximum benefits, it is suggested that students take advantage of this program prior to their initial registration.

## **DUAL ENROLLMENT**

Dual Enrollment is defined as a student simultaneously earning receiving high school credit toward a high school diploma, along with college credit toward an Associate Degree or credit toward a vocational certificate for an eligible course. For more information see page 29 in this catalog.

## **ADVANCED PLACEMENT (AP)**

Advanced Placement exams are taken after students complete the corresponding Advanced Placement course in high school. Advanced Placement courses are extremely challenging and are designed to parallel typical lower-level undergraduate courses. More information about the Advanced Placement program, including descriptions or courses and sample examination questions, is available at: [www.collegeboard.com/ap](http://www.collegeboard.com/ap).

## **INTERNATIONAL BACCALAUREATE (IB) DIPLOMA PROGRAM CAMBRIDGE ADVANCED CERTIFICATE OF EDUCATION (AICE)**

The International Baccalaureate and Cambridge AICE programs offer challenging curricula at high schools around the world and are designed to prepare students for exams leading to the award of college level coursework. Information about the IB program is available at <http://www.ibo.org/>. Information about the Cambridge AICE program is available at <http://www.cie.org.us/usa>.

## **AWARD OF CREDIT FOR TECHNICAL COMPETENCIES**

IRSC may award credit for technical competencies when validated by IRSC faculty members for students who are enrolled in specific programs.

Procedures for award of credit for technical competencies are as follows:

1. Student makes a request in writing for specific course validation to the appropriate Department Chair. Support documents should be provided.
2. The Department Chair will arrange for validation of technical competencies by challenge exam or other methods.
3. The Department Chair will recommend to the appropriate Instructional Dean/Administrative Director the courses corresponding to the competencies validated.
4. The Instructional Dean/Administrative Director will then transmit recommendations to the Vice President of Applied Science and Technology for approval.

5. Once approved by the Vice President, the request will be forwarded to the Assistant Dean of Educational Services who will notify the student regarding the service fee and arrange to have credit placed on the student transcript. Student must pay a clerical service fee of \$5.00 per credit hour or per 30 clock hours.

NOTE: Evaluation and award of credit for programs with licensure or certification requirements may prohibit award of credit. In those cases, the student would be required to enroll in the appropriate coursework. Review of all prior training for Veteran students will be completed prior to their certification for any Veterans benefits.

## **DEFERRED CREDIT ENROLLMENT**

An individual will be permitted, without formal admission, to register for college course work on a “deferred credit” basis. “Deferred credit” may become “standard college credit” if, and only if, the student is formally admitted and/or pursues a degree program, and requests a change in the status of his/her “deferred credit” course work. The student will be responsible for seeking formal admission to the College when and if such action becomes warranted.

## **DIRECTED INDEPENDENT STUDY**

Students must have the Instructional Dean/Administrative Director’s approval for independent study. The regular grading system applies to all independent study courses. Grades earned by independent study have the same status as those acquired through regular class attendance.

## **PROCEDURE FOR COMPLETION OF DIRECTED INDEPENDENT STUDY FORM**

1. The student makes request of instructor to offer Directed Independent Study (DIS).
2. If the instructor agrees to administer the DIS, the instructor must completely fill in the contract form. Contracts will not be approved until all information is completed.
3. The contract is then forwarded to the Instructional Dean/Administrative Director for approval. The Dean/Director will determine the student’s eligibility to complete the course on an independent study basis. A minimum 2.0 cumulative grade point average is required for DIS study. The form then goes to the appropriate Vice President for approval.
4. If approved, the form is forwarded to the Curriculum Support Office (CSO) to enter the class and register the student.
5. CSO will forward copy of DIS with student’s schedule to student.
6. Student must pay for class within one week upon receipt of approved DIS schedule.

## **EXTENDED COURSE LOAD**

Academically superior students who are qualified may, with special permission of an advisor/counselor, take up to 20 semester credits in the regular semester (12 semester credits in the summer session), thus shortening the time required to earn a degree at IRSC.

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## **ADULT EDUCATION**

### **ADULT HIGH SCHOOL**

IRSC provides an Adult High School Program. Students may earn high school credits through open-entry, open-exit, competency-based instruction.

Students may earn an Indian River State College high school diploma by meeting the standards set by the State of Florida for high school graduation.

### **ENGLISH AS A SECOND LANGUAGE**

The English as a Second Language (ESL) Program offers English language and literacy courses to a variety of immigrant groups at many locations throughout the four-county area. Two literacy levels provide basic literacy skills in the student's native language and in English, respectively, while six (6) ESL levels, ranging from Beginning to Advanced, address a broad spectrum of workforce competencies as well as English language skills. Students may also study Citizenship to prepare to take the Immigration and Naturalization Service U.S. Citizenship examination.

### **ADULT BASIC EDUCATION**

The Adult Basic Education (ABE) Program exists for students who have less than a high school education or who need to review the basics before continuing with their education. The courses in this program will start the student on a path to the GED high school equivalency exam and diploma.

### **GENERAL EDUCATION DEVELOPMENT**

The General Education Development (GED) program provides individuals the opportunity to review high school subjects in preparation for the high school equivalency examination. Language, literature, mathematics, science, and social science are reviewed through competency-based instruction. Upon successful completion of the GED exam, students are issued a high school diploma from the Florida State Department of Education.

### **CAREER DEVELOPMENT PROGRAM**

Since 1979, the Career Development Program at IRSC has been helping participants to gain skills and confidence necessary to enter the work force or to return to school, and offering programs and seminars of special interest.

These initiatives are a reflection of the Program's diversified aim: to help men and women realize the alternatives available in their lives, to provide interested adults access to experts in a number of fields, and to give any interested person practical and sound advice on how best to achieve his/her potential.

The Program also offers the Displaced Homemaker Program under a Vocational Educational Grant. This program can provide tuition funds to students who qualify as displaced homemakers in greatest financial need.

The Equity for Non-Traditional Careers Program provides support services such as counseling and referral, personal guidance, and, in some cases, tuition assistance, to individuals in the greatest financial need who are seeking the necessary education to pursue high wage, non traditional occupations. The Equity Counselor forms an informal partnership with the student as an advocate to ensure success in completing

a vocational degree or technical certificate. Under the Federal Perkins Law, this grant is dedicated to fostering gender equality in high-wage occupations.

## **PROFESSIONAL CAREER PROGRAM**

The three-semester Professional Career Program is designed to enhance the job skills and education of women and men in order to improve their potential for job satisfaction and promotion. Program participants completing the 24-credit hour curriculum are awarded a Technical Certificate in Business Management, which may transfer towards the A.A.S. Degree in Business and provide a foundation for the Bachelor of Applied Science Degree in Organizational Management. To accommodate the working student, classes are held one night a week and on Saturday mornings. The program is a joint effort of the Career Development Program and the Business Management Department.

## **FARMWORKER JOBS AND EDUCATION PROGRAM**

The Farmworker Jobs and Education Program at Indian River State College (IRSC) began in 1973. It is funded through the Florida Department of Education by a grant from the U.S. Department of Labor. For unemployed or underemployed farmworkers and their dependents who qualify, the program provides training and necessary supportive services so that they may obtain a full-time, year-round unsubsidized job at minimum wage or above. A planned program of vocational and on-the-job training, work experience, job placement assistance, and basic and/or remedial education – including GED, English as a Second Language (ESL) – is provided to each participant as needed.

Eligibility for participation in the program is limited to migrant and seasonal farmworkers and/or their dependents who meet the following criteria:

1. Have been identified as a member of a family that receives public assistance or whose annual family income does not exceed either 70% of the lower-living standard income level, or the poverty level.
2. During any consecutive 12-month period within the 24-month period preceding their application for enrollment:
  - a. received at least 50% of their total earned income or have been employed at least 50% of their total work time in farmwork; been employed at least 25 days in farmwork or earned at least \$800 a year in farmwork. Farmwork must be on a seasonal basis, that is, without a constant year-round salary;
  - b. be a citizen of the United States, Permanent Resident Alien, or other Alien who has been permitted to accept permanent employment in the United States by the Immigration and Naturalization Service.

The Farmworker Jobs and Education Program can also provide tuition funds to participants who qualify.

## **BACHELOR OF SCIENCE DEGREE PROGRAMS**

### **BIOLOGY**

#### **EDUCATION**

EXCEPTIONAL STUDENT EDUCATION with ESOL

MIDDLE GRADES MATHEMATICS

SECONDARY MATHEMATICS

MIDDLE GRADES SCIENCE

SECONDARY BIOLOGY

#### **HUMAN SERVICES**

YOUTH & FAMILY STUDIES

ADDICTIONS STUDIES

HUMAN SERVICES GENERALIST

#### **NURSING**

## **BACHELOR OF APPLIED SCIENCE DEGREE PROGRAMS**

### **DIGITAL MEDIA**

GRAPHICS & WEB

GAMING & VIDEO

MODELING & SIMULATION

### **ORGANIZATIONAL MANAGEMENT**

ORGANIZATIONAL MANAGEMENT

PUBLIC SAFETY ADMINISTRATION

HEALTH CARE MANAGEMENT

## **BACHELOR'S DEGREES**



## BACHELOR OF SCIENCE DEGREE PROGRAMS

Indian River State College offers Bachelor's Degree programs in the following areas:

**The Bachelor of Science Degree in Education** is designed for students who wish to teach math or science at the middle school or high school level or who want to teach Exceptional Student Education (ESE). Students with an A.A. Degree are eligible to apply. Depending upon the specialization chosen, students will be well prepared to teach high school biology, middle school science, middle school and high school math or Exceptional Student Education at all levels. Students should complete all lower-division state-mandated program prerequisites, including the Education prerequisites of EDF 2005, Introduction to the Teaching Profession; EDF 2085, Introduction to Diversity and Exceptionalities for Educators; EME 2040, Introduction to Technology for Educators.

**The Bachelor of Science Degree in Nursing** is appropriate for graduates of an Associate in Science Degree in Nursing with a valid Florida R.N. license who desire to continue their education to the Bachelor's level. This degree prepares students for R.N. positions with leadership and management responsibilities. Students may complete required General Education courses before entering the program. Students who have completed the 72-credit Associate in Science Degree in Nursing, will complete an additional 22 credits for the Baccalaureate General Education requirement and 31 Baccalaureate in Nursing credits for a total of 125 credits to earn the degree.

**The Bachelor of Science Degree in Biology** is for students with an Associate in Arts Degree who are interested in pursuing careers and graduate education in the fields of life sciences, health sciences, and environmental sciences. Biology Baccalaureate Degree holders will also be well-prepared to continue their studies in professional schools of medicine, dentistry, or veterinary sciences. Students will transfer 60 credit hours from their A.A. Degree program and complete a total of 60 additional credit hours upon admission to the B.S. in Biology program for a total of 120 credit hours to earn the degree. Students must complete the following prerequisite courses with a grade of "C" or higher for admission to the program: General Biology I with lab, General Biology II with lab, General Chemistry I with lab, General Chemistry II with lab, Organic Chemistry I with lab, Organic Chemistry II with lab, Calculus I, and Statistics.

**The Bachelor of Science Degree in Human Services** allows students who hold an Associate in Science Degree in Human Services to focus on acquiring advanced knowledge, skills, and competencies in one of three areas of concentration — Youth and Family Studies, Addictions Studies, or General Human Services. Customized programs of study are also available for students with A.A. degrees and unrelated Associate degrees who are interested in this program. Graduates with a Bachelor's Degree in Human Services will find employment in a wide range of public, private, and nonprofit organizations focused on helping vulnerable populations and building stronger communities. A total of 120 credits are required for this degree.

The **Bachelor of Applied Science Degree in Organizational Management** is designed for candidates who hold an Associate in Science (A.S.) or an Associate in Applied Science (A.A.S.) Degree in a technical field and are motivated to continue their education in preparation for career advancement. Students with an A.A. Degree may also be admitted with the approval of the Assistant Dean of Business Technology. This degree program is designed to prepare students for management level positions in a wide variety of career paths. Specializations include Organizational Management, Public Safety Administration and Health Care Management. Students may complete the required General Education courses before entering the program.

The **Bachelor of Applied Science Degree in Digital Media** is intended for students who have completed an Associate in Science Degree in Digital Media or Graphic Design who want to develop advanced skills and competencies in one of three areas of specialization – Graphics and Web Design, Gaming and Video, or Modeling and Simulation. Customized programs of study are also available for students with A.A. degrees and unrelated Associate degrees who are interested in this program. Graduates with a B.A.S. Degree in Digital Media can work in a wide variety of settings including entertainment, education, engineering, and business.

## **BACHELOR'S DEGREE REQUIREMENTS**

Students must earn at least twenty-five percent (25%) of the entire four year degree at IRSC. Students must successfully complete, with a GPA of 2.0 or higher, 36 hours of General Education credit (or equivalent) in the areas established by Indian River State College for its Baccalaureate Degree program.

The state of Florida Legislature has repealed the requirement to pass the “College Level Communication Mathematics Skills Examination” (CLAST) in order to be awarded an Associate in Arts Degree effective July 1, 2009.

In order to demonstrate continuing concern for institutional accountability and effectiveness, as well as performance standards for student learning outcomes, the Legislature maintained the current CLAST exemptions as degree requirements.

For students who graduate after July 1, 2009, the following alternatives will fulfill the competency requirement in addition to other current requirements for the Baccalaureate degree:

1. Exemption via American College Testing Program (ACT):
  - Math - Achieve 21 or above on the enhanced ACT in Math or on the original ACT.
  - Reading - Achieve 22 or above on the enhanced ACT in Reading or a score of 20 or above on the Composite of the original ACT.
  - English Language Skills and Essay - Achieve 21 or above on the enhanced ACT in English or a score of 20 or above on the original ACT.
2. Exemption via Scholastic Achievement Test (SAT-I):
  - Math - Achieve 500 or above on the recentered score scale, or its equivalent on the original score scale, meets Computation requirements.
  - Verbal - Achieve 500 or above on the recentered score scale, or its equivalent on the original score scale, meets Reading, English Language Skills and Essay requirements.

3. Exemption via FELPT:
  - Math - Achieve 91 or above.
  - Reading - Achieve 93 or above.
  - Writing - Achieve 105 or above.
4. Exemption via Grade Point Average (GPA):
  - English Language Skills - Achieve a 2.5 GPA in two courses for a minimum of six hours of credit from ENC 1101 and select one from ENC 1102, ENC 1107, ENC 2210, AML 2010, AML 2020, ENL 2012, ENL 2022, LIN 2670, LIT2110, LIT 2120.
  - Math skills - Achieve a 2.5 GPA in two courses for a minimum of six hours of credit from any of the following math courses: MAC 1105, MAC 1114, MAC 1140, MAC 2233, MAC 2234, MAC 2311, MAC 2312, MAC 2313, MAD 2104, MAP 2302, MAS 2103, MTG 2106, MGF 2107, STA 2023
5. Exemption via College Level Exam Program (CLEP):  
Achieve minimum acceptable scores as required on English or Math exams to be transferred in for degree credit.
6. Exemption via waiver by committee for students with documented specific learning disabilities and other extenuating circumstances.

Students must have completed the Florida foreign language requirement prior to completion of the Bachelor's Degree. Students must meet all other IRSC graduation policies and deadlines.

**Requirements for graduation from the Bachelor of Science Degree in Education program are:**

1. Satisfactory completion of all three (3) parts of the Florida Teacher Certification Exam (FTCE).
2. Students must achieve a cumulative GPA of not less than a 2.5 on a 4.0 scale in all courses attempted (including transfer hours, but, excluding college preparatory courses) and in all courses attempted at Indian River State College.
3. Successful completion of Student Teaching (MAE 4945, EEX 4940, or SCE 4941).
4. All Baccalaureate Education majors must achieve a grade of "C" or better in all content area courses within their declared Program of Study. Content area courses are science courses for Secondary and Middle Grades Science Education majors, math courses for Secondary and Middle Grades Math majors, and exceptionalities courses for Exceptional Student Education with ESOL majors. Thus, a grade of "C" or higher is required for these courses:
  - For Secondary Biology - ZOO 3303C, MCB 2010, MCB 2010L, BOT 3015, PCB 3063, PCB 4043, PCB 4043L.
  - For Middle Grades Science - BSC 2010, BSC 2010L, BSC 2011, BSC2011L, CHM 1045, CHM 1045L, CHM 1046, CHM 1046L, PHY 2053, PHY 2053L, PHY 2054, PHY 2054L, OCE 2001, PCB 4043, PCB 4043L.
  - For Secondary Math - MAS 3105, MAP 3303, STA 2023, MTG 3212, MHF 4404, MAS 4203.
  - For Middle Grades Math - MAE 4815, STA 2023, MAE 3816, MHF 4404.
  - For ESE with ESOL - EEX 3103, EEX 4221, EEX 4601, EEX 4264, EEX 4265.

5. Upon completion of these requirements, the student will be eligible to apply for an initial Professional Teaching Certificate in the program area(s).

**Requirements for graduation from the Bachelor of Science Degree in Nursing program are:**

1. Students must successfully complete 125 hours of specified college-level credit courses in the degree program, including the 72 credits in the lower division Associate in Science Degree in Nursing and the additional 53 credit hours of Bachelor of Science in Nursing courses.
2. Students must achieve a cumulative GPA of not less than a 2.0 on a 4.0 scale in all courses attempted (including transfer hours, but, excluding college preparatory courses) and in all courses attempted at Indian River State College.

**Requirements for graduation from the Bachelor of Science Degree in Biology program are:**

1. Students must successfully complete 120 hours of college-level courses in the degree program, including a minimum of 60 hours in the lower-division Associate in Arts Degree and 60 hours of specified Bachelor of Science Degree in Biology coursework.
2. Students must achieve a cumulative GPA of not less than a 2.0 on a 4.0 scale in all courses attempted (including transfer hours, but, excluding college preparatory courses) and in all courses attempted at Indian River State College.
3. Students must successfully complete the Senior Research Project with a grade of "C" or higher.

**Requirements for graduation from the Bachelor of Science Degree in Human Services program are:**

1. Students must successfully complete 120 credit hours of college-level courses in the degree program, including the lower-division Associate Degree, and 45 hours of specified Bachelor of Science Degree in Human Services coursework.
2. Students must achieve a cumulative GPA of not less than a 2.0 on a 4.0 scale in all courses attempted (including transfer hours, but, excluding college preparatory courses) and in all courses attempted at Indian River State College.

**Requirements for graduation from the Bachelor of Applied Science Degree in Organizational Management program are:**

1. Students must successfully complete 120 credit hours of college-level courses in the degree program, including the lower-division Associate Degree, and the 42 hours of Bachelor of Applied Science Degree in Organizational Management coursework, including the capstone course.
2. Students must achieve a cumulative GPA of not less than a 2.0 on a 4.0 scale in all courses attempted (including transfer hours, but, excluding college preparatory courses) and in all courses attempted at Indian River State College.

**Requirements for graduation from the Bachelor of Applied Science Degree in Digital Media program are:**

1. Students must successfully complete 120 credit hours of college-level courses in the degree program, including the lower-division Associate Degree, and 39 hours of specified Bachelor of Applied Science Degree in Digital Media coursework, including the capstone course.
2. Students must achieve a cumulative GPA of not less than a 2.0 on a 4.0 scale in all courses attempted (including transfer hours, but, excluding college preparatory courses) and in all courses attempted at Indian River State College.

**BACHELOR'S DEGREE PROGRAM IN BIOLOGY**  
**BACHELOR OF SCIENCE IN BIOLOGY**  
**S0070 - 120 CREDITS**

Pursuing a career in biology opens the door to an unusually large number of immensely rewarding and exciting career options in the life sciences. The degree is preparatory for careers in such areas as agriculture, human and veterinary medicine, dentistry, ecology and conservation, molecular/cell biology and biotechnology.

**TRANSFER FROM ASSOCIATE DEGREE:**

General Education Requirement.....	36 credits
<b>English</b> .....	<b>6 credits</b>
<i>ENC 1101, and ENC 1102, ENC 1107, ENC 2210, AML 2010, AML 2020, ENL 2012, ENL 2022, LIN 2670, LIT 2110, or LIT 2120</i>	
<b>Humanities</b> .....	<b>6 credits</b>
<i>AML 2010, AML 2020, ARH 1000, ARH 2050, ARH 2051, ENC 2133, ENG 1123, ENG 1124, ENL 2012, ENL 2022, HUM 1233, HUM 1533, HUM 1541, HUM 2512, IDS 1110, IDS 1955, ISC 2133, LIT 2110, LIT 2120, MUL 2010, MUL 2012, MUY 2100; ORI 1001, PHH 2060, PHH 2403, PHH 2603, PHI 1002, PHI 1010, PHI 1103, PHI 1635, PHI 1801, PHI 2620, PHI 2623, PHI 2630, REL 1300, SPC 1608, THE 1000, THE 2300, TPP 1110</i>	
<i>(Recommended: PHI 1103, PHI 2630 or PHI 1635)</i>	
<b>Mathematics</b> .....	<b>6 credits</b>
<i>MAC 1105, MAC 1114, MAC1140, MAC 2233, MAC 2234, MAC 2311, MAC2312, MAC2313, MAD2104, MAP2302, MAS2103, MGF2106, MGF2107, MTG 2204, STA 2023</i>	
<i>(Recommended: MAC 2311, STA 2023)</i>	
<b>Science</b> .....	<b>6 credits</b>
<i>AST1002, AST 1002L, BOT 2010, BOT 2010L, BSC 1005, BSC 1005L, BSC 1009, BSC1084, BSC 1254, BSC 1254L, BSC 1421, BSC 1421L, BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, BSC 2093, BSC 2093L, BSC 2094, BSC 2094L, BSC 2426, BSC 2426L, BSC 2427, BSC 2427L, CHM 1020, CHM 1045, CHM 1045L, CHM 1046, CHM 1046L, CHM 1083, CHM 2210, CHM 2210L, CHM 2211, CHM 2211L, CHS 1510, ESC 1000, GLY1010, MCB 2010, MCB 2010L, MET 1001, OCB 1000, OCB 1000L, OCB 1630, OCB 1630L, OCE 2001, OCE 2001L, PCB 1030, PHY</i>	

1020, PHY 2048, PHY 2048L, PHY 2049, PHY 2049L, PHY 2053, PHY 2053L, PHY 2054, PHY 2054L, PSC 1341, PSC 1341L

(Recommended: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 1045, CHM 1045L, CHM 1046, CHM 1046L, CHM 1083, CHM 2210, CHM 2210L, CHM 2211, CHM 2211L)

**Social Science..... 12 credits**

**Student must take 6 credits from the following:**

AMH 2010, AMH 2020, EUH 2000, EUH 2001, EUH 2002, WOH 2012, WOH 2022, WOH 2040

**Student must take 6 credits from the following:**

ANT 1000, ANT 2140, ANT 2410, ASN 1010, CPO 2002, DEP 2004, ECO 2013, ECO 2023, GEA 2000, INR 2002, INR 2500, POS 1041, PSY 2012, SYG 2000, SYG 2010

(Recommended: PSY 2012, ANT 1000, ANT 2140 or ANT 2410)

Electives ..... 24 credits

**Common Prerequisite Required Courses\*** (may be taken within A.A. Degree):

MAC 2311, STA 2023, BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 1045, CHM 1045L, CHM 1046, CHM 1046L, CHM 2210, CHM 2210L, CHM 2211, CHM 2211L. \*Requires a grade of "C" or higher

**CORE BIOLOGY CONCENTRATION (Required: 32 credits)**

BCH	4053	Biochemistry I .....	3 credits
BSC	3931	Junior Seminar I .....	1 credit
BSC	3932	Junior Seminar II .....	1 credit
BSC	4910	Senior Project I .....	1 credit
BSC	4911	Senior Project II .....	1 credit
MCB	3023	General Microbiology .....	3 credits
MCB	3023L	General Microbiology Laboratory .....	1 credit
PCB	3063	Genetics .....	3 credits
PCB	3063L	Genetics Laboratory.....	1 credit
PCB	4024	Molecular and Cell Biology .....	3 credits
PCB	4043	General Ecology .....	3 credits
PCB	3674	Evolutionary Biology.....	3 credits
and			
PHY	2053	College Physics I .....	3 credits
PHY	2053L	College Physics I Laboratory.....	1 credit
PHY	2054	College Physics II.....	3 credits
PHY	2054L	College Physics II Laboratory.....	1 credit
or			
PHY	2048	Physics for Engineers I.....	3 credits
PHY	2048L	Physics for Engineers I Laboratory.....	1 credit
PHY	2049	Physics for Engineers II.....	3 credits
PHY	2049L	Physics for Engineers II Laboratory.....	1 credit

**MAJOR CONCENTRATION (Molecular/Biotechnology: 28 credits)**

BCH	4054	Biochemistry II .....	3 credits
BCH	4053L	Biochemistry I Laboratory.....	1 credit

BOT	3015	Plant Botany .....	3 credits
BSC	2426	Biotechnology I .....	3 credits
BSC	2426L	Biotechnology I Laboratory .....	1 credit
BSC	2427	Biotechnology II .....	3 credits
BSC	2427L	Biotechnology II Laboratory .....	1 credit
BSC	4422	Applications in Biotechnology.....	3 credits
BSC	4434	Introduction to Bioinformatics.....	3 credits
PCB	4023	Cell Biology and Physiology.....	3 credits
PCB	4024L	Molecular and Cell Biology Laboratory .....	1 credit
PCB	4233	Immunology .....	3 credits

**BACHELOR’S DEGREE PROGRAMS IN DIGITAL MEDIA**

**BACHELOR OF APPLIED SCIENCE IN DIGITAL MEDIA – 120 CREDITS**

**Graphics and Web Concentration (R0040 - 39 credits)**

**Gaming and Video Concentration (R0050 - 39 credits)**

**Modeling and Simulation Concentration (R0060 – 39 credits)**

The Bachelor of Applied Science (B.A.S.) in Digital Media is designed to provide advanced skills in the theoretical and practical aspects of three areas critical to this industry: Graphics and Web, Gaming and Video, and Modeling and Simulation. The upper-level coursework will broaden students' knowledge in technical applications, art and design, interactive media, animation, management and entrepreneurial practices, scriptwriting, ethics, critical and creative thinking in media, and the interdisciplinary nature of art, technology, and science.

<b>TRANSFER FROM ASSOCIATE DEGREE (DMT or GDT).....</b>	<b>45 credits</b>
General Education Requirement.....	36 credits
Major Concentration Courses .....	39 credits

**GENERAL EDUCATION COURSES**

**English .....** **6 credits**

*ENC 1101 and ENC 1102, ENC 1107, ENC 2210, AML 2010, AML 2020, ENL 2012, ENL 2022, LIN 2670, LIT 2110 or LIT 2120*

*(Recommended: ENC 1101, ENC 1102)*

**Humanities .....** **6 credits**

*AML 2010, AML 2020, ARH 1000, ARH 2050, ARH 2051, ENC 2133, ENG 1123, ENG 1124, ENL 2012, ENL 2022, HUM 1233, HUM 1533, HUM 1541, HUM 2512, IDS 1110, IDS 1955, ISC 2133, LIT 2110, LIT 2120, MUL 2010, MUL 2012, MUY 2100; ORI 1001, PHH 2060, PHH 2403, PHH 2603, PHI 1002, PHI 1010, PHI 1103, PHI 1635, PHI 1801, PHI 2620, PHI 2623, PHI 2630, REL 1300, SPC 1608, THE 1000, THE 2300, TPP 1110*

*(Recommended: ARH 2051, PHI 1103)*

**Mathematics .....** **6 credits**

*MAC 1105, MAC 1114, MAC 1140, MAC 2233, MAC 2234, MAC 2311, MAC 2312, MAC 2313, MAD 2104, MAP 2302, MAS 2103, MGF 2106, MGF 2107, MTG 2204, STA 2023*

*(Recommended: MAC 1105, MAC 2233)*

**Science ..... 6 credits**  
 AST 1002, AST 1002L, BOT 2010, BOT 2010L, BSC 1005, BSC 1005L, BSC 1009, BSC 1084, BSC 1254, BSC 1254L, BSC 1421, BSC 1421L, BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, BSC 2093, BSC 2093L, BSC 2094, BSC 2094L, BSC 2426, BSC 2426L, BSC 2427, BSC 2427L, CHM 1020, CHM 1045, CHM 1045L, CHM 1046, CHM 1046L, CHM 1083, CHM 2210, CHM 2210L, CHM 2211, CHM 2211L, CHS 1510, ESC 1000, GLY 1010, MCB 2010, MCB 2010L, MET 1001, OCB 1000, OCB 1000L, OCB 1630, OCB 1630L, OCE 2001, OCE 2001L, PCB 1030, PHY 1020, PHY 2048, PHY 2048L, PHY 2049, PHY 2049L, PHY 2053, PHY 2053L, PHY 2054, PHY 2054L, PSC 1341, PSC 1341L  
 (Recommended: ESC 1000, PHY 1020)

**Social Science ..... 12 credits**  
**Student must take 6 credits from the following:**  
 AMH 2010, AMH 2020, EUH 2000, EUH 2001, EUH 2002, WOH 2012, WOH 2022, WOH 2040  
 (Recommended: AMH 2020, WOH 2040)  
**Student must take 6 credits from the following:**  
 ANT 1000, ANT 2140, ANT 2410, ASN 1010, CPO 2002, DEP 2004, ECO 2013, ECO 2023, GEA 2000, INR 2002, INR 2500, POS 1041, PSY 2012, SYG 2000, SYG 2010  
 (Recommended: ECO 2013, PSY 2012)

Electives ..... 24 credits

### **GRAPHICS AND WEB CONCENTRATION (RO040 - 39 credits)**

#### **Core Courses (27 credits)**

GRA	3102	Principles of Visual Communication .....	3 credits
GRA	3512	Branding and Corporate Identity .....	3 credits
GRA	3735	Multimedia Production.....	3 credits
GRA	3758	Advanced HTML and CSS for Web Design.....	3 credits
GRA	4137	Advanced Web Design .....	3 credits
GRA	4154	Advanced Illustration Methods.....	3 credits
GRA	4591	Art Direction and Creative Process .....	3 credits
GRA	4950	Digital Media Portfolio.....	3 credits
GRA	4954	Digital Media Capstone Project.....	3 credits

#### **Concentration Electives (Select 12 credits)**

DIG	3823	Creative Digital Media Problem Solving.....	3 credits
GRA	4116	Advanced Advertising Design and Graphics.....	3 credits
GRA	4119	Type and Package Design .....	3 credits
CGS	4845	Advanced E-commerce .....	3 credits
GRA	4513	Communication Design & Visual Persuasion .....	3 credits
GRA	4738	Multimedia Production.....	3 credits
GRA	4941	Digital Media Internship - Practicum.....	3 credits

#### **TECHNICAL CORE COURSES (21 credits)**

Students who enter the program with an A.S. in Digital Media Technology or Graphic



Design Technology will have already satisfied the technical core courses. Students entering with an A.A. Degree or an A.S. or A.A.S. Degree in another discipline must complete the following technical core courses:

DIG	1000	Digital Media Principles .....	3 credits
DIG	1115	Digital Imaging Fundamentals.....	3 credits
DIG	2030	Digital Video Fundamentals.....	3 credits
DIG	2302	3D Digital Animation I .....	3 credits
GRA	1129	Visualization Basics .....	3 credits
GRA	2160	Adobe Animation - Live Motion.....	3 credits
CGS	1821	Website Development.....	3 credits

### **GAMING AND VIDEO CONCENTRATION (RO050 - 39 credits)**

#### **Core Courses (30 credits)**

DIG	3355	Artificial Effects and Environments .....	3 credits
DIG	3362	Artificial 3D Characters .....	3 credits
DIG	3628	Game Networking.....	3 credits
DIG	3713	Gaming Principles .....	3 credits
DIG	4354	3D Modeling in Animation .....	3 credits
DIG	4375	Adv. Modeling - Rigid Bodies & Vehicle Structures .....	3 credits
DIG	4725	Advanced Game Design.....	3 credits
DIG	4715	Advanced Game Production .....	3 credits
DIG	4720	Casual Game Production.....	3 credits
GRA	4954	Digital Media Capstone Project.....	3 credits

#### **Concentration Electives (Select 9 credits)**

DIG	3823	Creative Digital Media Problem Solving.....	3 credits
DIG	4433	Advanced Interactive Design .....	3 credits
DIG	4770	Building Virtual Worlds.....	3 credits
GRA	4941	Digital Media Internship - Practicum.....	3 credits
GRA	4950	Digital Media Portfolio.....	3 credits

### **TECHNICAL CORE COURSES (21 credits)**

Students who enter the program with an A.S. in Digital Media Technology or Graphic Design Technology will have already satisfied the technical core courses. Students entering with an A.A. Degree or an A.S. or A.A.S. Degree in another discipline must complete the following technical core courses:

DIG	1000	Digital Media Principles .....	3 credits
DIG	1115	Digital Imaging Fundamentals.....	3 credits
DIG	2030	Digital Video Fundamentals.....	3 credits
DIG	2302	3D Digital Animation I .....	3 credits
GRA	1129	Visualization Basics .....	3 credits
GRA	2160	Adobe Animation - Live Motion.....	3 credits
COP	1800	Java Programming.....	3 credits

### **MODELING AND SIMULATION CONCENTRATION (RO060 - 39 credits)**

#### **Core Courses (30 credits)**

DIG	3355	Artificial Effects and Environments .....	3 credits
DIG	3362	Artificial 3D Characters .....	3 credits

DIG	3703	Modeling and Simulation Principles .....	3 credits
DIG	3870	Discrete Systems Simulation.....	3 credits
CAP	3806	Object Oriented Simulation.....	3 credits
DIG	4354	3D Modeling in Animation .....	3 credits
DIG	4375	Adv. Modeling - Rigid Bodies & Vehicle Structures .....	3 credits
DIG	4433	Advanced Interactive Design .....	3 credits
DIG	4780	Modeling Real Time Systems .....	3 credits
GRA	4954	Digital Media Capstone Project.....	3 credits

**Concentration Electives (Select 9 credits)**

DIG	3823	Creative Digital Media Problem Solving.....	3 credits
DIG	4874	Training System Design.....	3 credits
DIG	4872	Applied Digital Simulation.....	3 credits
GRA	4941	Digital Media Internship - Practicum.....	3 credits
GRA	4950	Digital Media Portfolio.....	3 credits

**TECHNICAL CORE COURSES (21 credits)**

Students who enter the program with an A.S. in Digital Media Technology or Graphic Design Technology will have already satisfied the technical core courses. Students entering with an A.A. Degree or an A.S. or A.A.S. Degree in another discipline must complete the following technical core courses:

DIG	1000	Digital Media Principles.....	3 credits
DIG	1115	Digital Imaging Fundamentals.....	3 credits
DIG	2030	Digital Video Fundamentals.....	3 credits
DIG	2302	3D Digital Animation I .....	3 credits
GRA	1129	Visualization Basics .....	3 credits
GRA	2160	Adobe Animation - Live Motion.....	3 credits
ETD	2355	3D Modeling and Surface Generation.....	3 credits

**BACHELOR’S DEGREE PROGRAMS IN EDUCATION**

**BACHELOR OF SCIENCE IN  
EXCEPTIONAL STUDENT EDUCATION WITH ESOL  
S0010 - 125 CREDITS**

Helping children and young people overcome challenges to learning is extremely rewarding. As a specialist in Exceptional Student Education you will create opportunities that help every child succeed in the classroom. Through this IRSC program, you will gain a firm foundation in educational methods and classroom experience to help each child reach his or her full potential.

**TRANSFER FROM ASSOCIATE DEGREE:**

General Education Requirement.....	36 credits
<b>English</b> .....	<b>6 credits</b>
<i>ENC 1101, and ENC 1102, ENC 1107, ENC 2210, AML 2010, AML 2020, ENL 2012, ENL 2022, LIN 2670, LIT 2110, or LIT 2120</i>	
<b>Humanities</b> .....	<b>6 credits</b>
<i>AML 2010, AML 2020, ARH 1000, ARH 2050, ARH 2051, ENC 2133, ENG 1123, ENG 1124, ENL 2012, ENL 2022, HUM 1233, HUM 1533, HUM 1541, HUM 2512, IDS 1110, IDS 1955, ISC 2133, LIT 2110, LIT 2120,</i>	

MUL 2010, MUL 2012, MUY 2100; ORI 1001, PHH 2060, PHH 2403, PHH 2603, PHI 1002, PHI 1010, PHI 1103, PHI 1635, PHI 1801, PHI 2620, PHI 2623, PHI 2630, REL 1300, SPC 1608, THE 1000, THE 2300, TPP 1110

**Mathematics.....6 credits**  
 MAC 1105, MAC 1114, MAC1140, MAC 2233, MAC 2234, MAC 2311, MAC2312, MAC2313, MAD2104, MAP2302, MAS2103, MGF2106, MGF2107, MTG 2204, STA 2023

**Science .....6 credits**  
 AST1002, AST 1002L, BOT 2010, BOT 2010L, BSC 1005, BSC 1005L, BSC 1009, BSC1084, BSC 1254, BSC 1254L, BSC 1421, BSC 1421L, BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, BSC 2093, BSC 2093L, BSC 2094, BSC 2094L, BSC 2426, BSC 2426L, BSC 2427, BSC 2427L, CHM 1020, CHM 1045, CHM 1045L, CHM 1046, CHM 1046L, CHM 1083, CHM 2210, CHM 2210L, CHM 2211, CHM 2211L, CHS 1510, ESC 1000, GLY 1010, MCB 2010, MCB 2010L, MET 1001, OCB 1000, OCB 1000L, OCB 1630, OCB 1630L, OCE 2001, OCE 2001L, PCB 1030, PHY 1020, PHY 2048, PHY 2048L, PHY 2049, PHY 2049L, PHY 2053, PHY 2053L, PHY 2054, PHY 2054L, PSC 1341, PSC 1341L

**Social Science..... 12 credits**

**Student must take 6 credits from the following:**

AMH 2010, AMH 2020, EUH 2000, EUH 2001, EUH 2002, WOH 2012, WOH 2022, WOH 2040

**Student must take 6 credits from the following:**

ANT 1000, ANT 2140, ANT 2410, ASN 1010, CPO 2002, DEP 2004, ECO 2013, ECO 2023, GEA 2000, INR 2002, INR 2500, POS 1041, PSY 2012, SYG 2000, SYG 2010

Electives ..... 24 credits

**Major Concentration (65 credits)**

EDF	3214	Human Development & Learning.....	3 credits
EEX	3103	Survey of Normal/Abnormal Language & Speech .....	1 credit
RED	3009	Early & Emergent Literacy .....	3 credits
TSL	3520C	Cultural Dimensions of ESOL .....	3 credits
TSL	4441C	ESOL Testing & Evaluation.....	1 credit
EDG	4376	Integrating Language Arts & Social Science .....	3 credits
EDG	4410	Classroom Management & Communication .....	3 credits
EME	3410	Integrating Technology in the Classroom.....	3 credits
EEX	4221	Educational Assessment of Exceptional Students.....	3 credits
RED	4519C	Diagnostic & Instructional Intervention in Reading.....	3 credits
TSL	4340C	TESOL Methods .....	3 credits
TSL	4140C	TESOL Curriculum & Materials .....	3 credits
EDF	4430	Measurement, Evaluation & Assessment .....	3 credits
EEX	4601	Effective Behavioral Interventions & Practices in ESE .....	3 credits
EEX	4264	Curriculum & Instruction for Students with Disabilities for Grades K-5.....	3 credits
EEX	4265	Curriculum & Instruction for Students with Disabilities for Grades 6-12.....	3 credits

EDG	4377C	Integrating Mathematics & Science.....	3 credits
RED	4348	Literacy Development for Grades K-12.....	3 credits
TSL	3251	Applied Linguistics .....	3 credits
EEX	4940	Student Teaching/ESE Internship & Seminar .....	12 credits

**BACHELOR OF SCIENCE IN MIDDLE GRADES MATH  
S0020 – 120 CREDITS**

As a math teacher you will help children and young people build vitally important skills in mathematics – skills that will help them in all aspects of their lives. Mathematics is especially important as the foundation for a world-class education. Help students attain the competencies and knowledge they will need for success in the 21<sup>st</sup> century.

**TRANSFER FROM ASSOCIATE DEGREE:**

General Education Requirement.....	36 credits
<b>English.....</b>	<b>6 credits</b>
<i>ENC 1101, and ENC 1102, ENC 1107, ENC 2210, AML 2010, AML 2020, ENL 2012, ENL 2022, LIN 2670, LIT 2110, or LIT 2120</i>	
<b>Humanities .....</b>	<b>6 credits</b>
<i>AML 2010, AML 2020, ARH 1000, ARH 2050, ARH 2051, ENC 2133, ENG 1123, ENG 1124, ENL 2012, ENL 2022, HUM 1233, HUM 1533, HUM 1541, HUM 2512, IDS 1110, IDS 1955, ISC 2133, LIT 2110, LIT 2120, MUL 2010, MUL 2012, MUY 2100; ORI 1001, PHH 2060, PHH 2403, PHH 2603, PHI 1002, PHI 1010, PHI 1103, PHI 1635, PHI 1801, PHI 2620, PHI 2623, PHI 2630, REL 1300, SPC 1608, THE 1000, THE 2300, TPP 1110</i>	
<b>Mathematics .....</b>	<b>6 credits</b>
<i>MAC 1105, MAC 1114, MAC 1140, MAC 2233, MAC 2234, MAC 2311, MAC 2312, MAC 2313, MAD 2104, MAP 2302, MAS 2103, MGF 2106, MGF 2107, MTG 2204</i>	
<b>Science .....</b>	<b>6 credits</b>
<i>AST1002, AST 1002L, BOT 2010, BOT 2010L, BSC 1005, BSC 1005L, BSC 1009, BSC1084, BSC 1254, BSC 1254L, BSC 1421, BSC 1421L, BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, BSC 2093, BSC 2093L, BSC 2094, BSC 2094L, BSC 2426, BSC 2426L, BSC 2427, BSC 2427L, CHM 1020, CHM 1045, CHM 1045L, CHM 1046, CHM 1046L, CHM 1083, CHM 2210, CHM 2210L, CHM 2211, CHM 2211L, CHS 1510, ESC 1000, GLY1010, MCB 2010, MCB 2010L, MET 1001, OCB 1000, OCB 1000L, OCB 1630, OCE 1630L, OCE 2001, OCE 2001L, PCB 1030, PHY 1020, PHY 2048, PHY 2048L, PHY 2049, PHY 2049L, PHY 2053, PHY 2053L, PHY 2054, PHY 2054L, PSC 1341, PSC 1341L</i>	
<b>Social Science.....</b>	<b>12 credits</b>
<b>Student must take 6 credits from the following:</b>	
<i>AMH 2010, AMH 2020, EUH 2000, EUH 2001, EUH 2002, WOH 2012, WOH 2022, WOH 2040</i>	
<b>Student must take 6 credits from the following:</b>	
<i>ANT 1000, ANT 2140, ANT 2410, ASN 1010, CPO 2002, DEP 2004, ECO 2013, ECO 2023, GEA 2000, INR 2002, INR 2500, POS 1041, PSY 2012, SYG 2000, SYG 2010</i>	

Electives.....24 credits

**Major Concentration (60 credits)**

EDF	3214	Human Development & Learning.....	3 credits
RED	3360	Teaching Reading in Middle/Secondary Schools.....	3 credits
EME	3410	Integrating Technology in the Classroom .....	3 credits
EDF	4430	Measurement, Evaluation & Assessment.....	3 credits
MAE	4815	Elements of Algebra .....	3 credits
TSL	3080	ESOL Issues: Principles & Practices.....	3 credits
EDG	3343	Instructional Strategies.....	3 credits
MAE	3940	Teaching Middle School Mathematics Practicum .....	1 credit
MAT	3905	Math through Tutoring.....	3 credits
STA	2023	Elementary Statistics I.....	3 credits
		Math Elective .....	3 credits
EDG	4410	Classroom Management & Communication.....	3 credits
EDM	3001	Introduction to Middle School.....	3 credits
MAE	3816	Elements of Geometry.....	3 credits
MHF	4404	History of Mathematics.....	3 credits
MAE	4363	Middle School/Secondary School Mathematics Methods .....	3 credits
MAE	4941	Teaching Secondary Mathematics Practicum .....	1 credit
MAE	4945	Student Teaching in Mathematics.....	10 credits
MAE	4932	Seminar in Math Education .....	3 credits

**BACHELOR OF SCIENCE IN SECONDARY MATH  
S0030 – 120 CREDITS**

As a high school math teacher you will help young people build vitally important skills in mathematics – skills that will help them in all aspects of their lives. Mathematics is especially important as the foundation for a world-class education. Help students attain the competencies and knowledge they will need for success in the 21<sup>st</sup> century.

**TRANSFER FROM ASSOCIATE DEGREE:**

General Education Requirement.....36 credits

**English** .....6 credits  
*ENC 1101, and ENC 1102, ENC 1107, ENC 2210, AML 2010, AML 2020, ENL 2012, ENL 2022, LIN 2670, LIT 2110, or LIT 2120*

**Humanities** .....6 credits  
*AML 2010, AML 2020, ARH 1000, ARH 2050, ARH 2051, ENC 2133, ENG 1123, ENG 1124, ENL 2012, ENL 2022, HUM 1233, HUM 1533, HUM 1541, HUM 2512, IDS 1110, IDS 1955, ISC 2133, LIT 2110, LIT 2120, MUL 2010, MUL 2012, MUY 2100; ORI 1001, PHH 2060, PHH 2403, PHH 2603, PHI 1002, PHI 1010, PHI 1103, PHI 1635, PHI 1801, PHI 2620, PHI 2623, PHI 2630, REL 1300, SPC 1608, THE 1000, THE 2300, TPP 1110*

**Mathematics** .....6 credits  
*MAC 1105, MAC 1114, MAC1140, MAC 2233, MAC 2234, MAC 2311, MAC 2312, MAC 2313, MAD 2104, MAP 2302, MAS 2103, MGF 2106, MGF 2107, MTG 2204*

**Science .....6 credits**

AST1002, AST 1002L, BOT 2010, BOT 2010L, BSC 1005, BSC 1005L, BSC 1009, BSC1084, BSC 1254, BSC 1254L, BSC 1421, BSC 1421L, BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, BSC 2093, BSC 2093L, BSC 2094, BSC 2094L, BSC 2426, BSC 2426L, BSC 2427, BSC 2427L, CHM 1020, CHM 1045, CHM 1045L, CHM 1046, CHM 1046L, CHM 1083, CHM 2210, CHM 2210L, CHM 2211, CHM 2211L, CHS 1510, ESC 1000, GLY 1010, MCB 2010, MCB 2010L, MET 1001, OCB 1000, OCB 1000L, OCB 1630, OCB 1630L, OCE 2001, OCE 2001L, PCB 1030, PHY 1020, PHY 2048, PHY 2048L, PHY 2049, PHY 2049L, PHY 2053, PHY 2053L, PHY 2054, PHY 2054L, PSC 1341, PSC 1341L

**Social Science ..... 12 credits****Student must take 6 credits from the following:**

AMH 2010, AMH 2020, EUH 2000, EUH 2001, EUH 2002, WOH 2012, WOH 2022, WOH 2040

**Student must take 6 credits from the following:**

ANT 1000, ANT 2140, ANT 2410, ASN 1010, CPO 2002, DEP 2004, ECO 2013, ECO 2023, GEA 2000, INR 2002, INR 2500, POS 1041, PSY 2012, SYG 2000, SYG 2010

Electives..... 24 credits

**Major Concentration (60 credits)**

EDF	3214	Human Development & Learning.....	3 credits
RED	3360	Teaching Reading in Middle/Secondary Schools.....	3 credits
EME	3410	Integrating Technology in the Classroom.....	3 credits
MAS	3105	Applied Linear Algebra .....	4 credits
EDF	4430	Measurement, Evaluation & Assessment .....	3 credits
TSL	3080	ESOL Issues: Principles & Practices .....	3 credits
EDG	3343	Instructional Strategies.....	3 credits
MAE	3940	Teaching Middle School Mathematics Practicum.....	1 credit
MAP	3303	Differential Equations II .....	3 credits
MAE	3651	Learn Math with Technology.....	1 credit
STA	2023	Elementary Statistics I .....	3 credits
MAT	3905	Math through Tutoring.....	1 credit
EDG	4410	Classroom Management & Communication .....	3 credits
MTG	3212	Modern Geometries .....	3 credits
MAE	4363	Middle School/Secondary School Mathematics Methods.....	3 credits
MAE	4941	Teaching Secondary Mathematics Practicum.....	1 credit
MHF	4404	History of Mathematics.....	3 credits
MAS	4203	Number Theory.....	3 credits
MAE	4945	Student Teaching in Math.....	10 credits
MAE	4932	Seminar in Math Education .....	3 credits

**BACHELOR OF SCIENCE IN MIDDLE GRADES SCIENCE  
S0040 – 120 CREDITS**

As a science teacher you will help children and young people explore the fascinating world of science, inspiring interest in a field that will dramatically affect our lives in the 21<sup>st</sup> century. Watch your students' faces light up as they understand a new concept or become engaged in an experiment. Teaching is truly a meaningful career, and science teaching is especially important as the foundation for a world-class education.

**TRANSFER FROM ASSOCIATE DEGREE:**

General Education Requirement.....	36 credits
<b>English</b> .....	<b>6 credits</b>
<i>ENC 1101, and ENC 1102, ENC 1107, ENC 2210, AML 2010, AML 2020, ENL 2012, ENL 2022, LIN 2670, LIT 2110, or LIT 2120</i>	
<b>Humanities</b> .....	<b>6 credits</b>
<i>AML 2010, AML 2020, ARH 1000, ARH 2050, ARH 2051, ENC 2133, ENG 1123, ENG 1124, ENL 2012, ENL 2022, HUM 1233, HUM 1533, HUM 1541, HUM 2512, IDS 1110, IDS 1955, ISC 2133, LIT 2110, LIT 2120, MUL 2010, MUL 2012, MUY 2100; ORI 1001, PHH 2060, PHH 2403, PHH 2603, PHI 1002, PHI 1010, PHI 1103, PHI 1635, PHI 1801, PHI 2620, PHI 2623, PHI 2630, REL 1300, SPC 1608, THE 1000, THE 2300, TPP 1110</i>	
<b>Mathematics</b> .....	<b>6 credits</b>
<i>MAC 1105, MAC 1114, MAC1140, MAC 2233, MAC 2234, MAC 2311, MAC 2312, MAC 2313, MAD 2104, MAP 2302, MAS 2103, MGF 2106, MGF 2107, MTG 2204, STA 2023</i>	
<b>Science</b> .....	<b>6 credits</b>
<i>AST1002, AST 1002L, BOT 2010, BOT 2010L, BSC 1005, BSC 1005L, BSC 1009, BSC1084, BSC 1254, BSC 1254L, BSC 1421, BSC 1421L, BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, BSC 2093, BSC 2093L, BSC 2094, BSC 2094L, BSC 2426, BSC 2426L, BSC 2427, BSC 2427L, CHM 1020, CHM 1045, CHM 1045L, CHM 1046, CHM 1046L, CHM 1083, CHM 2210, CHM 2210L, CHM 2211, CHM 2211L, CHS 1510, ESC 1000, GLY 1010, MCB 2010, MCB 2010L, MET 1001, OCB 1000, OCB 1000L, OCB 1630, OCB 1630L, OCE 2001L, PCB 1030, PHY 1020, PHY 2048, PHY 2048L, PHY 2049, PHY 2049L, PHY 2053, PHY 2053L, PHY 2054, PHY 2054L, PSC 1341, PSC 1341L</i>	
<b>Social Science</b> .....	<b>12 credits</b>
<b>Student must take 6 credits from the following:</b>	
<i>AMH 2010, AMH 2020, EUH 2000, EUH 2001, EUH 2002, WOH 2012, WOH 2022, WOH 2040</i>	
<b>Student must take 6 credits from the following:</b>	
<i>ANT 1000, ANT 2140, ANT 2410, ASN 1010, CPO 2002, DEP 2004, ECO 2013, ECO 2023, GEA 2000, INR 2002, INR 2500, POS 1041, PSY 2012, SYG 2000, SYG 2010</i>	
Electives.....	24 credits

**Major Concentration (60 credits)**

EDF	3214	Human Development & Learning.....	3 credits
EME	3410	Integrating Technology in the Classroom.....	3 credits
RED	3360	Teaching Reading in Middle/Secondary Schools.....	3 credits
BSC	2010	General Biology I with BSC 2010L or	
CHM	1045	General Chemistry I with CHM 1045L or	
PHY	2053	College Physics I with PHY 2053L.....	4 credits
EDF	4430	Measurement, Evaluation & Assessment .....	3 credits
TSL	3080	ESOL Issues: Principles & Practices .....	3 credits
EDG	3343	Instructional Strategies.....	3 credits
SCE	3940	Teaching Middle School Science Practicum.....	1 credit
EDM	3001	Introduction to Middle School .....	3 credits
BSC	2011	General Biology II with BSC 2011L or	
CHM	1046	General Chemistry II with CHM 1046L or	
PHY	2054	College Physics II with PHY 2054L.....	4 credits
EDG	4410	Classroom Management & Communication .....	3 credits
OCE	2001	Introduction to Oceanography .....	3 credits
SCE	3360	Middle School/Secondary Science Methods .....	3 credits
SCE	4942	Teaching Secondary Science Practicum.....	1 credit
		Natural Science elective (ESC 1000 recommended) .....	3 credits
PCB	4043	General Ecology.....	3 credits
PCB	4043L	General Ecology Lab .....	1 credit
SCE	4941	Student Teaching in Science .....	10 credits
SCE	4943	Seminar in Science Teaching.....	3 credits

**BACHELOR OF SCIENCE IN SECONDARY BIOLOGY  
S0050 - 120 CREDITS**

As a high school biology teacher you will help young people learn about the fascinating world of biology, inspiring interest in a field that will dramatically affect our lives in the 21<sup>st</sup> century. Engage your students as they become immersed in an experiment or amazed at a new concept. Teaching is truly a meaningful career, and science teaching is especially important as the foundation of a world-class education.

**TRANSFER FROM ASSOCIATE DEGREE:**

General Education Requirement.....	36 credits
<b>English</b> .....	<b>6 credits</b>
<i>ENC 1101, and ENC 1102, ENC 1107, ENC 2210, AML 2010, AML 2020, ENL 2012, ENL 2022, LIN 2670, LIT 2110, or LIT 2120</i>	
<b>Humanities</b> .....	<b>6 credits</b>
<i>AML 2010, AML 2020, ARH 1000, ARH 2050, ARH 2051, ENC 2133, ENG 1123, ENG 1124, ENL 2012, ENL 2022, HUM 1233, HUM 1533, HUM 1541, HUM 2512, IDS 1110, IDS 1955, ISC 2133, LIT 2110, LIT 2120, MUL 2010, MUL 2012, MUY 2100; ORI 1001, PHH 2060, PHH 2403, PHH 2603, PHI 1002, PHI 1010, PHI 1103, PHI 1635, PHI 1801, PHI 2620, PHI 2623, PHI 2630, REL 1300, SPC 1608, THE 1000, THE 2300, TPP 1110</i>	



**Mathematics** .....6 credits  
 MAC 1105, MAC 1114, MAC1140, MAC 2233, MAC 2234, MAC 2311, MAC 2312, MAC 2313, MAD 2104, MAP 2302, MAS 2103, MGF 2106, MGF 2107, MTG 2204, STA 2023

**Science** .....6 credits  
 AST1002, AST 1002L, BOT 2010, BOT 2010L, BSC 1005, BSC 1005L, BSC 1009, BSC1084, BSC 1254, BSC 1254L, BSC 1421, BSC 1421L, BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, BSC 2093, BSC 2093L, BSC 2094, BSC 2094L, BSC 2426, BSC 2426L, BSC 2427, BSC 2427L, CHM 1020, CHM 1045, CHM 1045L, CHM 1046, CHM 1046L, CHM 1083, CHM 2210, CHM 2210L, CHM 2211, CHM 2211L, CHS 1510, GLY 1010, ESC 1000, MET 1001, OCB 1000, OCB 1000L, OCB 1630, OCB 1630L, OCE 2001, OCE 2001L, PCB 1030, PHY 1020, PHY 2048, PHY 2048L, PHY 2049, PHY 2049L, PHY 2053, PHY 2053L, PHY 2054, PHY 2054L, PSC 1341, PSC 1341L

**Social Science**..... 12 credits  
**Student must take 6 credits from the following:**  
 AMH 2010, AMH 2020, EUH 2000, EUH 2001, EUH 2002, WOH 2012, WOH 2022, WOH 2040

**Student must take 6 credits from the following:**  
 ANT 1000, ANT 2140, ANT 2410, ASN 1010, CPO 2002, DEP 2004, ECO 2013, ECO 2023, GEA 2000, INR 2002, INR 2500, POS 1041, PSY 2012, SYG 2000, SYG 2010

Electives.....24 credits

**Major Concentration (60 credits)**

EDF	3214	Human Development & Learning.....	3 credits
EME	3410	Integrating Technology in the Classroom.....	3 credits
RED	3360	Teaching Reading in Middle/Secondary Schools.....	3 credits
ZOO	3303C	General Vertebrate Zoology .....	4 credits
EDF	4430	Measurement, Evaluation & Assessment .....	3 credits
TSL	3080	ESOL Issues: Principles & Practices .....	3 credits
EDG	3343	Instructional Strategies.....	3 credits
SCE	3940	Teaching Middle School Science Practicum.....	1 credit
MCB	2010	Microbiology for Health Sciences.....	3 credits
MCB	2010L	Microbiology Lab for Health Sciences.....	1 credit
BOT	3015	Plant Biology.....	3 credits
EDG	4410	Classroom Management & Communication .....	3 credits
SCE	3905	Science through Tutoring.....	3 credits
SCE	3360	Middle School/Secondary Science Methods .....	3 credits
SCE	4942	Teaching Secondary Science Practicum.....	1 credit
PCB	4043	General Ecology.....	3 credits
PCB	4043L	General Ecology Lab .....	1 credit
PCB	3063	Introduction to Genetics .....	3 credits
SCE	4941	Student Teaching in Science .....	10 credits
SCE	4943	Seminar in Science Education .....	3 credits

## BACHELOR'S DEGREE PROGRAMS IN HUMAN SERVICES

### BACHELOR OF SCIENCE IN HUMAN SERVICES – 120 CREDITS

Human Services Generalist Concentration (S0080 - 21 credits)

Youth & Family Studies Concentration (S0090 - 21 credits)

Addictions Studies Concentration (S0010 – 21 Credits)

The Bachelor of Science (B.S.) in Human Services prepares students to work with individuals, families, dyads, and groups in a wide array of human and social services settings. The curriculum provides theoretical as well as applied training in domestic abuse, child abuse, addictions, crisis intervention, family services, high risk youth, outreach, advocacy, and human services administration.

The Human Services Suite is designed to complement and facilitate practical application of skills. The facilities include a variety of individual and group therapy rooms as well as a child play therapy room and observation windows for critiquing. An Advanced Human Services Internship provides actual on-the-job work experience, further preparing students for the work place.

<b>TRANSFER FROM ASSOCIATE DEGREE</b> .....	39 credits
General Education Requirement.....	36 credits
Human Services Core Courses .....	24 credits
Major Concentration Courses .....	21 credits

#### GENERAL EDUCATION COURSES

**English** .....6 credits  
 ENC 1101 and ENC 1102, ENC 1107, ENC 2210, AML 2010, AML 2020, ENL 2012, ENL 2022, LIN 2670, LIT 2110, LIT 2120  
 (Recommended ENC 1101, ENC 1102)

**Humanities** .....6 credits  
 AML 2010, AML 2020, ARH 1000, ARH 2050, ARH 2051, ENC 2133, ENG 1123, ENG 1124, ENL 2012, ENL 2022, HUM 1233, HUM 1533, HUM 1541, HUM 2395, HUM 2512, IDS 1110, IDS 1955, JOU 2702, LIT 2110, LIT 2120, MUL 2010, MUL 2012, MUY 2100; ORI 1001, PHH 2060, PHH 2403, PHH 2603, PHI 1002, PHI 1010, PHI 1103, PHI 1635, PHI 1801, PHI 2630, REL 1300, SPC 1608, THE 1000, THE 2300, TPP 1110  
 (Recommended PHI 1103, HUM 1533)

**Mathematics** .....6 credits  
 MAC 1105, MAC 1114, MAC1140, MAC 2233, MAC 2234, MAC 2311, MAC 2312, MAC 2313, MAD 2104, MAP 2302, MAS 2103, MGF 2106, MGF 2107, MTG 2204, STA 2023  
 (Recommended STA 2023)

**Science** .....6 credits  
 AST1002, AST 1002L, BOT 2010, BOT 2010L, BSC 1005, BSC 1005L, BSC 1009, BSC 1084, BSC 1254, BSC 1254L, BSC 1421, BSC 1421L, BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, BSC 2093, BSC 2093L, BSC 2094, BSC 2094L, BSC 2426, BSC 2426L, BSC 2427, BSC 2427L, CHM 1020, CHM 1045, CHM 1045L, CHM 1046, CHM 1046L, CHM 1083,

CHM 2210, CHM 2210L, CHM 2211, CHM 2211L, CHS 1510, ESC 1000, MCB 2010, MCB 2010L, MET 1001, OCB 1000, OCB 1000L, OCB 1630, OCB 1630L, OCB 1951C, OCE 2001, OCE 2001L, PCB 1030, PHY 1020, PHY 2048, PHY 2048L, PHY 2049, PHY 2049L, PHY 2053, PHY 2053L, PHY 2054, PHY 2054L, PSC 1341, PSC 1341L

(Recommended BSC 1005)

**Social Science..... 12 credits**

**Student must take 6 credits from the following:**

AMH 2010, AMH 2020, EUH 2000, EUH 2001, EUH 2002, WOH 2012, WOH 2022, WOH 2040

**Student must take 6 credits from the following:**

ANT 1000, ANT 2140, ANT 2410, ASN 1010, CPO 2002, DEP 2004, ECO 2013, ECO 2023, GEA 2000, INR 2002, INR 2500, POS 1041, PSY 2012, SYG 2000, SYG 2010

(Recommended PSY 2012, SYG 2000)

### **CORE COURSES (24 credits)**

MHS	3460	Crisis Intervention .....	3 credits
HUS	3340	Trauma and Post Traumatic Stress Disorder.....	3 credits
HUS	3300	Humanistic and Existential Counseling Theory.....	3 credits
HUS	3314	Cognitive and Behavioral Theory.....	3 credits
HUS	3360	Sexual Abuse of Children and Adolescents.....	3 credits
HUS	3650	Administration in Human Services.....	3 credits
HUS	4945	Capstone - Advanced Internship in Human Services.....	6 credits

### **MAJOR CONCENTRATION (select concentration path):**

#### **Human Services Generalist Concentration (SO080 - 21 credits)**

HUS	3350	Issues in Domestic Abuse and Family Violence .....	3 credits
HUS	4364	Youth, Drugs, and Gangs .....	3 credits
HUS	4361	High Risk and Offender Youth .....	3 credits
HUS	4319	Introduction to Play Therapy.....	3 credits
HUS	4574	Issues of Aging and Family Dynamics.....	3 credits
HUS	4352	Family Diversity in Human Services.....	3 credits
HUS	3351	Family Systems and Dynamics .....	3 credits
HUS	3409	Addictive Experiences .....	3 credits
HUS	4410	Internet Addictions .....	3 credits
HUS	4462	Gender Issues in Treatment and Recovery.....	3 credits
HUS	4416	Issues in Impulse Control .....	3 credits
HUS	4442	Addictions Family Counseling.....	3 credits
HUS	4407	Substance Abuse and Aging.....	3 credits

#### **Youth and Family Studies Concentration (S0090 - 21 credits)**

HUS	3350	Issues in Domestic Abuse and Family Violence .....	3 credits
HUS	4361	High Risk and Offender Youth .....	3 credits
HUS	4364	Youth, Drugs, and Gangs .....	3 credits
HUS	4319	Introduction to Play Therapy.....	3 credits
HUS	4574	Issues of Aging and Family Dynamics.....	3 credits

HUS	4352	Family Diversity in Human Services.....	3 credits
HUS	3351	Family Systems and Dynamics.....	3 credits
HUS	4442	Addictions Family Counseling.....	3 credits

**Addictions Studies Concentration (S0100 - 21 credits)**

HUS	3409	Addictive Experiences .....	3 credits
HUS	4410	Internet Addictions .....	3 credits
HUS	4364	Youth, Drugs, and Gangs .....	3 credits
HUS	4462	Gender Issues in Treatment and Recovery.....	3 credits
HUS	4416	Issues in Impulse Control .....	3 credits
HUS	4442	Addictions Family Counseling.....	3 credits
HUS	4407	Substance Abuse and Aging.....	3 credits
HUS	4361	High Risk and Youth Offender .....	3 credits

**TECHNICAL CORE COURSES (1.8 credits)**

Students who enter the program with an A.S. in Human Services will have already satisfied the technical core courses. Students entering with an A.A. Degree or an A.S. or A.A.S. Degree in another discipline must complete the following technical courses:

HUS	1001	Introduction to Human Services.....	3 credits
HUS	2302	Techniques of Interviewing and Intervention .....	3 credits
HUS	2301	Counseling Techniques.....	3 credits
HUS	1200	Group Dynamics .....	3 credits
HUS	2500	Introduction to Ethics in Human Services .....	3 credits
CLP	2140	Abnormal Psychology .....	3 credits

**BACHELOR’S DEGREE PROGRAM IN NURSING  
BACHELOR OF SCIENCE IN NURSING  
S0060 – 125 CREDITS**

Today’s challenging and demanding health care environment requires highly adaptable employees with a broad base of knowledge and leadership skills. Professional nurses must be effective in leading an increasingly diverse group of employees and managing complex resources within the health care industry.

The Bachelor of Science in Nursing Degree will provide access to upper-level courses to residents of the Treasure Coast who already have an Associate in Science Degree in Nursing. These Baccalaureate courses will allow nurses to further their career by providing them with an educational background and practical experience to become qualified nurse leaders.

*All core curriculum (NUR prefix), English, Mathematics, Humanities and Natural Science courses require a grade of “C” or higher.*

**TRANSFER FROM ASSOCIATE DEGREE**

General Education Requirement.....	24 credits
<i>ENC 1101, and ENC 1102 or ENC 1107, with BSC 2093, BSC 2093L, BSC 2094, BSC 2094L, MCB 2010, MCB 2010L, PSY 2012, SYG 2000</i>	

Major Concentration Courses ..... 48 credits  
*NUR 1020C, NUR 2264C, NUR 2217C, NUR 2310C, NUR 2420C, NUR 2242,  
 NUR 2520C, NUR 1142, NUR 2811L, DEP 2004, HUN1201*

General Education Courses (22 credits)

\**Humanities (PHI 1010 and PHI 1635 recommended)..... 6 credits*

\**Social Science (AMH 2010 and AMH 2020 recommended) ..... 6 credits*

\**Mathematics MAC 1105 and STA 2023 ..... 6 credits*

\**Science CHM 1045 and CHM 1045L ..... 4 credits*

### Major Concentration (31 credits)

NUR 3145 Pharmacology ..... 3 credits

NUR 3065C Nursing Assessment with Clinical ..... 3 credits

NUR 3125 Pathophysiology ..... 3 credits

NUR 3164 Nursing Research & Informatics ..... 3 credits

NUR 3826 Ethical & Legal Issues in Health Care ..... 3 credits

NUR 3846 Nursing Theory ..... 3 credits

NUR 4655 Nursing in a Diverse Culture..... 3 credits

NUR 4636C Community Health with Clinical..... 4 credits

NUR 4827 Leadership & Management in Professional Nursing ..... 3 credits

NUR 4837 Health Care Policy & Economics ..... 3 credits

\*These courses may be taken prior to entering the program.

## BACHELOR'S DEGREE PROGRAMS IN ORGANIZATIONAL MANAGEMENT

### BACHELOR OF APPLIED SCIENCE IN ORGANIZATIONAL MANAGEMENT - 120 CREDITS

Organizational Management Major (R0010 - 24 credits)

Public Safety Administration Major (R0020 - 24 credits)

Health Care Management Major (R0030 - 24 credits)

The Bachelor of Applied Science (B.A.S.) in Organizational Management provides access to students who already have skills in a technical area and wish to advance to higher level supervisory and management positions within business, industry, and governmental organizations. This upper-level coursework of the B.A.S. program will broaden students' knowledge in applied management practices and will prepare them for supervisory and management opportunities within their chosen field through one of the three specialized concentrations: Organizational Management, Public Safety Administration, or Health Care Management.

**TRANSFER FROM ASSOCIATE DEGREE** ..... 42 credits

General Education Requirement.....36 credits

Organizational Management Core Courses ..... 18 credits

Major Concentration Courses ..... 24 credits

### GENERAL EDUCATION COURSES

**English** ..... 6 credits

*ENC 1101, and ENC 1102, ENC 1107, ENC 2210, AML 2010, AML 2020,  
 ENL 2012, ENL 2022, LIN 2670, LIT 2110, or LIT 2120*

**Humanities ..... 6 credits**

AML 2010, AML 2020, ARH 1000, ARH 2050, ARH 2051, ENC 2133, ENG 1123, ENG 1124, ENL 2012, ENL 2022, HUM 1233, HUM 1533, HUM 1541, HUM 2512, IDS 1110, IDS 1955, ISC 2133, LIT 2110, LIT 2120, MUL 2010, MUL 2012, MUY 2100; ORI 1001, PHH 2060, PHH 2403, PHH 2603, PHI 1002, PHI 1010, PHI 1103, PHI 1635, PHI 1801, PHI 2620, PHI 2623, PHI 2630, REL 1300, SPC 1608, THE 1000, THE 2300, TPP 1110

**Mathematics ..... 6 credits**

MAC 1105, MAC 1114, MAC1140, MAC 2233, MAC 2234, MAC 2311, MAC 2312, MAC 2313, MAD 2104, MAP 2302, MAS 2103, MGF 2106, MGF 2107, MTG 2204, STA 2023

**Science ..... 6 credits**

AST1002, AST 1002L, BOT 2010, BOT 2010L, BSC 1005, BSC 1005L, BSC 1009, BSC1084, BSC 1254, BSC 1254L, BSC 1421, BSC 1421L, BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, BSC 2093, BSC 2093L, BSC 2094, BSC 2094L, BSC 2426, BSC 2426L, BSC 2427, BSC 2427L, CHM 1020, CHM 1045, CHM 1045L, CHM 1046, CHM 1046L, CHM 1083, CHM 2210, CHM 2210L, CHM 2211, CHM 2211L, CHS 1510, ESC 1000, GLY 1010, MCB 2010, MCB 2010L, MET 1001, OCB 1000, OCB 1000L, OCB 1630, OCB 1630L, OCE 2001, OCE 2001L, PCB 1030, PHY 1020, PHY 2048, PHY 2048L, PHY 2049, PHY 2049L, PHY 2053, PHY 2053L, PHY 2054, PHY 2054L, PSC 1341, PSC 1341L

**Social Science ..... 12 credits**

**Student must take 6 credits from the following:**

AMH 2010, AMH 2020, EUH 2000, EUH 2001, EUH 2002, WOH 2012, WOH 2022, WOH 2040

**Student must take 6 credits from the following:**

ANT 1000, ANT 2140, ANT 2410, ASN 1010, CPO 2002, DEP 2004, ECO 2013, ECO 2023, GEA 2000, INR 2002, INR 2500, POS 1041, PSY 2012, SYG 2000, SYG 2010

**CORE COURSES (18 credits)**

BUL	3130	Legal Social Aspects of Business.....	3 credits
FIN	3400	Financial Management.....	3 credits
		or	
ACG	3024	Accounting for Non-Financial Majors.....	3 credits
ISM	3011	Intro to Management Information Systems.....	3 credits
MAN	3240	Organizational Behavior.....	3 credits
MAN	3303	Management & Leadership.....	3 credits
MAN	4301	Human Resources Management.....	3 credits

**MAJOR CONCENTRATION (select concentration path):**

**Organizational Management (24 credits - R0010)**

GEB	3213	Business Writing.....	3 credits
GEB	4891	Strategic Planning.....	3 credits
GEB	4930	Selected Topics in Management.....	3 credits
MAR	3023	Marketing Management.....	3 credits

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MAN	4162	Customer Relations for Managers .....	3 credits
MAN	4504	Operations Management.....	3 credits
MAN	4900	Capstone Project in Organizational Management .....	6 credits

**Public Safety Administration (24 credits - R0020)**

DSC	3064	Security & Emergency Communications.....	3 credits
DSC	3079	Foundations of Public Safety.....	3 credits
DSC	3215	Emergency Planning .....	3 credits
DSC	4226	National Incident Management.....	3 credits
DSC	4755	National Security .....	3 credits
DSC	4931	Selected Topics in Public Safety.....	3 credits
DSC	4013	Capstone Project in Public Safety .....	6 credits

**Health Care Management (24 credits - R0030)**

HSA	4160	Health Care Marketing.....	3 credits
HSA	3113	Health Care Trends & Issues .....	3 credits
HSA	4383	Quality Improvement in Health Care .....	3 credits
HSA	4421	Policy & Governmental Regulations in Health Care .....	3 credits
HSC	3500	Epidemiology .....	3 credits
HSC	4730	Foundations of Health Science Research .....	3 credits
HSA	4922	Capstone Project Health Care Management.....	6 credits

## **ASSOCIATE IN ARTS DEGREE PROGRAMS**

ACCOUNTING  
AGRICULTURAL (FOOD & RESOURCE)  
ECONOMICS  
AGRICULTURE (GENERAL)  
ANTHROPOLOGY  
ARCHITECTURE  
ART (GENERAL)  
BIOLOGY  
BIOTECHNOLOGY  
BUSINESS ADMINISTRATION  
CHEMISTRY  
COMPUTER AND INFORMATION SCIENCES  
COMPUTER SCIENCES  
CRIMINAL JUSTICE  
DIETETICS/NUTRITION  
ECONOMICS (BUSINESS)  
ECONOMICS (SOCIAL SCIENCES)  
EDUCATION (ELEMENTARY/SPECIAL)  
EDUCATION (SECONDARY)  
ENGINEERING  
ENGLISH  
ENVIRONMENTAL SCIENCE  
FILM  
FINANCE/MARKETING  
FOREIGN LANGUAGE  
FORESTRY/WILDLIFE ECOLOGY &  
CONSERVATION  
HISTORY  
HUMANITIES  
JOURNALISM/PUBLIC  
RELATIONS  
MARINE SCIENCE  
MATHEMATICS  
MUSIC  
MUSICAL THEATRE  
MUSIC THERAPY  
NURSING  
OCCUPATIONAL THERAPY  
PARKS & RECREATION  
MANAGEMENT  
PHARMACY  
PHILOSOPHY  
PHYSICAL EDUCATION  
PHYSICS  
POLITICAL SCIENCE  
PRE-MEDICINE/PRE-DENTAL/  
PRE-VETERINARY/  
PRE-PHYSICAL THERAPY  
PSYCHOLOGY  
PUBLIC ADMINISTRATION  
SOCIAL WORK  
SOCIOLOGY  
THEATRE/DRAMATIC ARTS

Note: The programs listed above are a representative sample of the many A.A. program options available. If you wish to pursue a transfer major not listed, please consult with an IRSC Advisor/Counselor at any campus to plan an appropriate program of study.



## ASSOCIATE IN ARTS DEGREE COLLEGE TRANSFER PROGRAM

The Associate in Arts Degree program is designed for students who intend to continue their education through enrollment in a Baccalaureate Degree program.

The A.A. Degree program certifies that the student has completed the first half (freshman and sophomore years) of a four-year college program. **Please note: Length of programs may vary depending on the major area of study and the college or university the student plans to attend.** With the A.A. Degree, the student is classified as a junior and may then undertake programs leading to a Baccalaureate Degree.

### ASSOCIATE IN ARTS DEGREE REQUIREMENTS

As its primary function, the Associate in Arts Degree program gives the student an academic experience in preparation for continued success in his or her college career. A major component of the A.A. Degree program is the General Education Requirement.

To meet the requirements for the Associate in Arts Degree, the student must complete 36 semester hours of General Education, plus 24 semester hours of elective prerequisite courses designed for the Associate in Arts Degree major (excluding occupational courses). Sixty (60) semester hours must be earned for the A.A. Degree. In addition to the above requirements, students must:

1. Complete at least 25% of the coursework required for their program at Indian River State College.
2. Submit the required placement scores (ACT, SAT, Florida Entry Level College Placement Test) to IRSC. Students who present Enhanced ACTE scores of Reading 18, English 17, Math 19 or SAT scores of Verbal 440, Mathematics 440, or higher may be exempt from taking the Florida Entry Level Placement Test. The Florida Entry Level College Placement Test is administered by IRSC. Students who test into college preparatory instruction must successfully complete the required college preparatory courses in English, math, and reading.
3. Achieve a grade point average of not less than 2.0 in all courses taken at IRSC (excluding occupational courses), and all courses attempted (including transfer hours), and complete the requirements of the Communications and Computation Rule (Gordon Rule). Students must also achieve a 2.5 GPA in courses to meet the English and mathematics General Education requirements.
4. Demonstrate competency in the basic use of computers either by passing a computer competency examination or by successfully completing an approved computer course or program (with a grade of "S" or "C" or better).
  - A. The computer competency examination may be taken at any of the IRSC Assessment Services Departments.  
 Demonstration of competency in the basic use of computers includes:
    - 1) running a Windows-based (or equivalent ) program;
    - 2) using a word processing program to create, save, retrieve, edit, and print a file;
    - 3) using the Internet to send email and to locate and to print specific reference materials.
  - B. Courses approved to meet the computer competency requirements for the A.A. Degree are: CGS 1060; CGS 1100; CIS 1000; EME 2040.

- C. Completion of the Information Systems & Computer Applications CLEP examination with a minimum score of 50.
5. Apply for graduation at the beginning of the semester or term in which the student plans to graduate. This application must include the payment of the Commencement fee. See calendars in the front of this catalog for deadline dates.
6. Participate in the Commencement Ceremony if graduating Spring Semester. Graduates from other semesters are welcome to take part in the Spring Commencement Ceremony.
7. Be recommended by the faculty to the President of the College for the confirmation of the degree.

It is the responsibility of the student, not the College, to check his or her records to be sure that all of the above graduation requirements are met. An Educational Services advisor/counselor will assist at any time with course selections and in determining status toward meeting the graduation requirements.

### **TRANSFER AGREEMENTS**

Articulation agreements have been developed between Indian River State College, public school districts, other state/community colleges, and universities to ensure equitable and efficient admission and transfer of students (Florida Statute #240.107 and State Board Rule #6A-10.024). Specialized articulated agreements in program majors have been established with selected universities. Students may obtain information regarding these agreements from the Educational Services Division.

### **THE STUDENT BILL OF RIGHTS**

Florida Community College Associate in Arts graduates are guaranteed the following rights under the Statewide Articulation Agreement (State Board of Education Rule 6A-10.024):

- 1) Admission to one of the eleven (11) state universities, except to limited-access programs which have additional admission requirements.
- 2) Acceptance of at least 60 credit hours by the state universities toward the Baccalaureate degree.
- 3) Adherence to university requirements and policies based on the catalog in effect at the time the student first entered a community college, provided the student maintains continuous enrollment.
- 4) Transfer of equivalent courses under the Statewide Course Numbering System.
- 5) Acceptance by the state universities of credit earned in accelerated programs (e.g., CLEP, AP, PEP, Dual Enrollment, Early Admission, and International Baccalaureate).
- 6) No additional General Education Core requirements.
- 7) Advance knowledge of selection criteria for limited-access programs.
- 8) Equal opportunity with native university students to enter limited-access programs.

Should any guarantee be denied, students have the right of appeal. Each state university and community college shall make available established appeal procedures through the respective articulation officers. The Assistant Dean of Educational Services is the articulation officer at IRSC.

## GENERAL EDUCATION REQUIRED COURSES FOR GRADUATION

### (A.A. DEGREE) – 36 Semester Hours

General Education teaches students a broad base of knowledge and develops higher order thinking skills. Through the General Education requirements within the Associate in Arts degree, the student will:

- communicate with clarity and precision
- make use of technology to organize, acquire, and convey information
- describe a wide range of global, social and cultural points of view and apply various perspectives to analyze human behavior
- develop awareness of diverse ethical perspectives
- understand and exhibit civic engagement and social responsibility
- apply critical thinking through problem solving.

#### **ENGLISH .....6 credits**

*ENC 1101, and ENC 1102, ENC 1107, ENC 2210, AML2010, AML 2020, ENL 2012, ENL 2022, LIN 2670, LIT 2110, or LIT 2120*

In each of the above courses, students will demonstrate college-level writing skills through multiple assignments and complete each course with a grade of “C” or higher.

#### **HUMANITIES .....6 credits**

*AML 2010, AML 2020, ARH 1000, ARH 2050, ARH 2051, ENC 2133, ENG 1123, ENG 1124, ENL 2012, ENL 2022, HUM 1233, HUM 1533, HUM 1541, HUM 2512, IDS 1110, IDS 1955, ISC 2133, LIT 2110, LIT 2120, MUL 2010, MUL 2012, MUY 2100, ORI 1001, PHH 2060, PHH 2403, PHH 2603, PHI 1002, PHI 1010, PHI 1103, PHI 1635, PHI 1801, PHI 2620, PHI 2623, PHI 2630, REL 1300, SPC 1608, THE 1000, THE 2300, TPP 1110*

In each of the above courses, students will demonstrate college-level writing skills through multiple assignments and complete each course with a grade of “C” or higher.

#### **MATHEMATICS .....6 credits**

*MAC 1105, MAC 1114, MAC 1140, MAC 2233, MAC 2234, MAC 2311, MAC 2312, MAC 2313, MAD 2104, MAP 2302, MAS 2103, MGF 2106, MGF 2107, MTG 2204, STA 2023*

Students must complete each course with a grade of “C” or higher.

#### **SCIENCE.....6 credits**

*AST 1002, AST 1002L, BOT 2010, BOT 2010L, BSC 1005, BSC 1005L, BSC 1009, BSC 1084, BSC 1254, BSC 1254L, BSC 1421, BSC 1421L, BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, BSC 2093, BSC 2093L, BSC 2094, BSC 2094L, BSC 2426, BSC 2426L, BSC 2427, BSC 2427L, CHM 1020, CHM 1045, CHM 1045L, CHM 1046, CHM 1046L, CHM 1083, CHM 2210, CHM 2210L, CHM 2211, CHM 2211L, CHS 1510, ESC 1000, GLY 1010, MCB 2010, MCB 2010L, MET 1001, OCB 1000, OCB 1000L, OCB 1630, OCB 1630L, OCE 2001, OCE 2001L, PCB 1030, PHY 1020, PHY 2048, PHY 2048L, PHY 2049, PHY 2049L, PHY 2053, PHY 2053L, PHY 2054, PHY 2054L, PSC1341, PSC 1341L*

Consult Educational Services about specific science requirements for major and for university transfer.

**SOCIAL SCIENCE..... 12 credits**

**Students must take 6 credits from the following:**

AMH 2010, AMH 2020, EUH 2000, EUH 2001, EUH 2002, WOH 2012, WOH 2022, WOH 2040

**Students must take 6 credits from the following:**

ANT 1000, ANT 2140, ANT 2410, ASN 1010, CPO 2002, DEP 2004, ECO 2013, ECO 2023, GEA 2000, INR 2002, INR 2500, POS 1041, PSY 2012, SYG 2000, SYG 2010

A series of college preparatory reading courses will be required of all students who test into college preparatory level reading.

When college level exams are successfully passed for Advanced Placement (AP), International Baccalaureate (IB), and the College Level Examination Program (CLEP), the following courses can be awarded for General Education Requirements:

**HUMANITIES** – AML X000 (CLEP), ENL X000 (CLEP), ARH X000 (CLEP), REL X300

**MATHEMATICS** - STA 2014 (AP), MAC X147(CLEP), MHF X202 (IB), MHF X209 (IB)

**SCIENCE** – CHM X020 (AP and CLEP), ISC X050 (IB), ISC X051 (AP), PHY X020 (IB)

**SOCIAL SCIENCE** – EUH X009 (AP), GEO X400 (AP), AMH X000 (AP)

## **ELECTIVES – 24 Credits**

### **ADDITIONAL REQUIREMENTS:**

**COMPUTER COMPETENCY** – see page 109 and 110

### **FOREIGN LANGUAGE**

**8-10 credits**

Effective August 1, 1991, students seeking admission to Florida's public universities must have completed two years of one foreign language at the high school level or the equivalent (8-10 semester hours) at the college level. Some majors and universities require additional foreign language competencies. Students should consult with Educational Services to determine their status.

*NOTE: No upper level or occupational courses are permitted in the Associate in Arts Degree programs. In the Course Description section of the Catalog, courses are designated with code letters "P" for Professional/Academic, "O" for Occupational and "U" for Upper Level. Courses with no designation are not intended to transfer to senior colleges or universities; however, they may be accepted as transfer courses at some institutions. Consult an advisor/counselor at the transfer institution of your choice.*

### **REQUIRED PREREQUISITES** (See Program Guides or Advisor/Counselor)

To earn the Associate in Arts Degree, certain General Education requirements and elective courses must be satisfactorily completed. Although A.A. students at Indian River State College do not declare majors, students must select prerequisite courses which will best prepare them for transfer into a particular major field at a specific college or university.

In planning the program of study at Indian River State College, students are advised to seek the aid of an advisor/counselor. An advisor/counselor can help review selections of courses acceptable for meeting the General Education requirements, since specific

General Education courses may be recommended for a particular major. In addition, an advisor/counselor can suggest prerequisites and sequences of courses for a specific major. **Please note: The length of programs may vary depending on the major area of study and the college or university the student plans to attend.**

The following are examples of programs that meet the requirements for the Associate in Arts Degree and include prerequisite electives generally recommended for certain majors at most of the state universities. Students should check, however, that the suggested courses meet the requirement for the major field at the specific college or university that they plan to attend. Choice of program and selection of courses are the student's responsibility. **Please note:** The Program Code required for the IRSC Application for Admission is the five digit number following the Program Title.

### ACCOUNTING - 11010

**\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credits)**

**REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA**

**UNIVERSITY SYSTEM PROGRAMS:**

ACG	2001	Financial Accounting I.....	3 credits
ACG	2011	Financial Accounting II.....	3 credits
ACG	2071	Managerial Accounting.....	3 credits
CGS	1100	Intro to Computer Applications for Business.....	3 credits
*ECO	2013	Principles of Economics Macro.....	3 credits
*ECO	2023	Principles of Economics Micro.....	3 credits
*MAC	2233	Business Calculus I.....	3 credits
*STA	2023	Elementary Statistics I.....	3 credits

**RECOMMENDED ELECTIVES:**

MAT	1033	Intermediate Algebra.....	3 credits
REA	1933	Reading for Cultural Literacy.....	3 credits
*SPC	1608	Introduction to Speech Communication.....	3 credits

### AGRICULTURAL (FOOD & RESOURCE) ECONOMICS - 11020

**\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)**

**REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA**

**UNIVERSITY SYSTEM PROGRAMS:**

*CHM	1020	Introduction to Chemistry.....	3 credits
		or	
*PHY	1020	Principles of Physics.....	3 credits
ACG	2001	Financial Accounting I.....	3 credits
ACG	2011	Financial Accounting II.....	3 credits
ACG	2071	Managerial Accounting.....	3 credits
*BSC	1005	Life Science.....	3 credits
*BSC	1005L	Life Science Lab.....	1 credit
*ENC	2210	Technical Communications.....	3 credits
*MAC	2233	Business Calculus I.....	3 credits

**\*See pages 111 - 112.** Can be used to meet A. A. General Education requirements at IRSC.

*SPC	1608	Introduction to Speech Communication .....	3 credits
*STA	2023	Elementary Statistics I .....	3 credits

**RECOMMENDED ELECTIVES:**

MAT	1033	Intermediate Algebra.....	3 credits
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**AGRICULTURE (GENERAL)\*\* - 11030****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)****REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:**

*SYG	2000	Introduction to Sociology .....	3 credits
or			
*PSY	2012	Introduction to Psychology.....	3 credits
CGS	1060	College Computing .....	3 credits
*BSC	2010	General Biology I .....	3 credits
*BSC	2010L	General Biology I Lab .....	1 credit
*BSC	2011	General Biology II .....	3 credits
*BSC	2011L	General Biology II Lab .....	1 credit
*CHM	1045	General Chemistry I.....	3 credits
*CHM	1045L	General Chemistry I Lab .....	1 credit
*CHM	1046	General Chemistry II.....	3 credits
*CHM	1046L	General Chemistry II Lab .....	1 credit
*ECO	2013	Principles of Economics Macro .....	3 credits
*MAC	1105	College Algebra.....	3 credits
*MAC	1114	Plane Trigonometry .....	3 credits
*MAC	1140	Precalculus Algebra.....	3 credits
*SPC	1608	Introduction to Speech Communication .....	3 credits
*STA	2023	Elementary Statistics I .....	3 credits

**RECOMMENDED ELECTIVES:**

AEB	2104	Principles of Agricultural Economics.....	4 credits
HOS	1010	Fundamentals of Horticulture .....	4 credits

\*\* See Educational Services for requirements for specific options.

**ANTHROPOLOGY - 11040****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)****REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:**

*ANT	2410	Introduction to Cultural Anthropology .....	3 credits
*ANT	2140	Intro to Biological Anthropology & Archaeology.....	3 credits

**RECOMMENDED ELECTIVES:**

ANT	2010	Anthropology & the Paranormal .....	3 credits
CGS	1060	College Computing .....	3 credits
*ECO	2013	Principles of Economics Macro .....	3 credits

\*See pages 111 - 112. Can be used to meet A. A. General Education requirements at IRSC.

*ECO	2023	Principles of Economics Micro .....	3 credits
*GEA	2000	World Regional Geography .....	3 credits
MAT	1033	Intermediate Algebra.....	3 credits
REA	1933	Reading for Cultural Literacy .....	3 credits

## ARCHITECTURE - 11050

### \*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)

Architecture is a limited access program at the university level. Specific courses and/or transfer requirements may vary. Please consult an advisor/counselor.

### REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:

ARC	1301C	Architectural Design I.....	4 credits
ARC	1302C	Architectural Design II.....	4 credits
ARC	1701	Architectural History I.....	3 credits
ARC	1702	Architectural History II.....	3 credits
ARC	2201	Architectural Theory .....	3 credits
ARC	2303	Architectural Design III.....	4 credits
ARC	2304	Architectural Design IV.....	4 credits
ARC	2461	Architectural Materials & Methods I .....	3 credits
ARC	2501	Architectural Structures.....	3 credits
*MAC	2233	Business Calculus I .....	3 credits
*PHY	2053	College Physics I .....	3 credits
*PHY	2053L	College Physics I Lab.....	1 credit

## ART (GENERAL) - 11060

### \*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)

### REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:

*ARH	2050	History of Art: Prehistoric - Gothic .....	3 credits
*ARH	2051	History of Art: Renaissance - Modern .....	3 credits
ART	1200C	Three Dimension Design.....	3 credits
ART	1201C	Color & Design I.....	3 credits
ART	1203C	Color & Design II.....	3 credits
ART	1300C	Drawing I .....	3 credits
ART	1301C	Drawing II.....	3 credits
GRA	2111C	Graphics.....	3 credits

### RECOMMENDED ELECTIVES:

ART	1701C	Introduction to Sculpture .....	3 credits
ART	2500C	Painting I .....	3 credits
ART	2330C	Figure & Form.....	3 credits

\*See pages 111 - 112. Can be used to meet A. A. General Education requirements at IRSC.

**BIOLOGY - 11070**

\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)

**REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:**

*MAC and	2311	Calculus I with Analytic Geometry .....	5 credits
*MAC or	2312	Calculus II .....	4 credits
*MAC and	2233	Business Calculus I .....	3 credits
*STA	2023	Elementary Statistics I .....	3 credits
*BSC	2010	General Biology I .....	3 credits
*BSC	2010L	General Biology I Lab .....	1 credit
*BSC	2011	General Biology II .....	3 credits
*BSC	2011L	General Biology II Lab .....	1 credit
*CHM	1045	General Chemistry I .....	3 credits
*CHM	1045L	General Chemistry I Lab .....	1 credit
*CHM	1046	General Chemistry II .....	3 credits
*CHM	1046L	General Chemistry II Lab .....	1 credit
*CHM	2210	Organic Chemistry I .....	3 credits
*CHM	2210L	Organic Chemistry I Lab .....	1 credit
*CHM	2211	Organic Chemistry II .....	3 credits
*CHM	2211L	Organic Chemistry II Lab .....	1 credit

**BIOTECHNOLOGY - 11480**

\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)

**REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:**

*MAC	2311	Calculus I with Analytic Geometry .....	5 credits
*STA	2023	Elementary Statistics I .....	3 credits
*BSC	2010	General Biology I .....	3 credits
*BSC	2010L	General Biology I Lab .....	1 credit
*BSC	2011	General Biology II .....	3 credits
*BSC	2011L	General Biology II Lab .....	1 credit
*CHM	1045	General Chemistry I .....	3 credits
*CHM	1045L	General Chemistry I Lab .....	1 credit
*CHM	1046	General Chemistry II .....	3 credits
*CHM	1046L	General Chemistry II Lab .....	1 credit
*CHM	2210	Organic Chemistry I .....	3 credits
*CHM	2210L	Organic Chemistry I Lab .....	1 credit
*CHM	2211	Organic Chemistry II .....	3 credits
*CHM	2211L	Organic Chemistry II Lab .....	1 credit
*PHY	2053	College Physics I .....	3 credits

\*See pages 111 - 112. Can be used to meet A. A. General Education requirements at IRSC.



*PHY	2053L	College Physics I Lab.....	1 credit
*PHY	2054	College Physics II.....	3 credits
*PHY	2054L	College Physics II Lab.....	3 credits

**RECOMMENDED ELECTIVES:**

*BSC	1421	Introduction to Biotechnology.....	3 credits
*BSC	1421	Introduction to Biotechnology Lab .....	1 credit
*BSC	2426	Biotechnology I.....	3 credits
*BSC	2426L	Biotechnology I Lab .....	1 credit
*BSC	2427	Biotechnology II.....	3 credits
*BSC	2427L	Biotechnology II Lab.....	1 credit
BSC	2435	Introduction to Bioinformatics.....	3 credits

**BUSINESS ADMINISTRATION - 11080****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credits)****REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA****UNIVERSITY SYSTEM PROGRAMS:**

ACG	2001	Financial Accounting I.....	3 credits
ACG	2011	Financial Accounting II.....	3 credits
ACG	2071	Managerial Accounting .....	3 credits
CGS	1100	Intro to Computer Applications for Business.....	3 credits
*ECO	2013	Principles of Economics Macro.....	3 credits
*ECO	2023	Principles of Economics Micro .....	3 credits
*MAC	2233	Business Calculus I.....	3 credits
*STA	2023	Elementary Statistics I .....	3 credits

**RECOMMENDED ELECTIVES:**

MAT	1033	Intermediate Algebra.....	3 credits
*POS	1041	American Government .....	3 credits
*SYG	2000	Introduction to Sociology .....	3 credits

**CHEMISTRY - 11090****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)****REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA****UNIVERSITY SYSTEM PROGRAMS:**

*CHM	1045	General Chemistry I.....	3 credits
*CHM	1045L	General Chemistry I Lab .....	1 credit
*CHM	1046	General Chemistry II.....	3 credits
*CHM	1046L	General Chemistry II Lab .....	1 credit
*CHM	2210	Organic Chemistry I.....	3 credits
*CHM	2210L	Organic Chemistry I Lab.....	1 credit
*CHM	2211	Organic Chemistry II.....	3 credits
*CHM	2211L	Organic Chemistry II Lab.....	1 credit
*MAC	2311	Calculus I with Analytic Geometry.....	5 credits
*MAC	2312	Calculus II.....	4 credits

\*See pages 111 - 112. Can be used to meet A. A. General Education requirements at IRSC.

**RECOMMENDED ELECTIVES:**

*PHY	2048	Physics for Engineers I .....	3 credits
*PHY	2048L	Physics for Engineers I Lab.....	1 credit
*PHY	2049	Physics for Engineers II.....	3 credits
*PHY	2049L	Physics for Engineers II Lab.....	1 credit
*PHY	2053	College Physics I.....	3 credits
*PHY	2053L	College Physics I Lab.....	1 credit
*PHY	2054	College Physics II.....	3 credits
*PHY	2054L	College Physics II Lab.....	1 credit

**COMPUTER & INFORMATION SCIENCES - 11100****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credits)****REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA****UNIVERSITY SYSTEM PROGRAMS:**

COP	2000	Introduction to Computer Programming I .....	3 credits
or			
COP	2220	C Programming I.....	3 credits
or			
COP	2334	C++ Programming .....	3 credits
ACG	2001	Financial Accounting I.....	3 credits
ACG	2011	Financial Accounting II.....	3 credits
ACG	2071	Managerial Accounting.....	3 credits
*ECO	2013	Principles of Economics Macro .....	3 credits
*ECO	2023	Principles of Economics Micro .....	3 credits
*MAC	2233	Business Calculus I .....	3 credits
*STA	2023	Elementary Statistics I .....	3 credits

**COMPUTER SCIENCES - 11110****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credits)****REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA****UNIVERSITY SYSTEM PROGRAMS:**

COP	2000	Introduction to Computer Programming I .....	3 credits
or			
COP	2220	C Programming I.....	3 credits
or			
COP	2334	C++ Programming .....	3 credits
*PHY	2048	Physics for Engineers I.....	3 credits
and			
*PHY	2048L	Physics for Engineers I Lab.....	1 credit
or			
*PHY	2049	Physics for Engineers II.....	3 credits
and			
*PHY	2049L	Physics for Engineers II Lab.....	1 credit
*MAC	2311	Calculus I with Analytic Geometry .....	5 credits
*MAC	2312	Calculus II .....	4 credits

**\*See pages 111 - 112.** Can be used to meet A. A. General Education requirements at IRSC.

Two science courses for science majors (minimum 6 credits):

*BSC	2010	General Biology I .....	3 credits
*BSC	2011	General Biology II .....	3 credits
*CHM	1045	General Chemistry I.....	3 credits
*CHM	1046	General Chemistry II.....	3 credits
*CHM	2210	Organic Chemistry I.....	3 credits
*CHM	2210L	Organic Chemistry I Lab.....	1 credit
*CHM	2211	Organic Chemistry II .....	3 credits
*CHM	2211L	Organic Chemistry II Lab.....	1 credit
*PHY	2053	College Physics I .....	3 credits
*PHY	2053L	College Physics I Lab.....	1 credit
*PHY	2054	College Physics II .....	3 credits
*PHY	2054L	College Physics II Lab.....	1 credit

### CRIMINAL JUSTICE - 11120

\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)

#### RECOMMENDED ELECTIVES:

CGS	1060	College Computing .....	3 credits
CCJ	2020	Introduction to Criminal Justice.....	3 credits
CJL	2100	Criminal Law I .....	3 credits
CJL	2403	Criminal Procedure.....	3 credits
CJL	2062	Constitutional Law.....	3 credits
MAT	1033	Intermediate Algebra.....	3 credits
*POS	1041	American Government .....	3 credits
POS	2112	American State & Local Government.....	3 credits
*PSY	2012	Introduction to Psychology.....	3 credits
*SYG	2010	Social Problems.....	3 credits

### DIETETICS/NUTRITION - 11130

\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)

REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA

#### UNIVERSITY SYSTEM PROGRAMS:

*BSC	2010	General Biology I .....	3 credits
*BSC	2010L	General Biology I Lab .....	1 credit
*BSC	2093	Anatomy & Physiology I .....	3 credits
*BSC	2093L	Anatomy & Physiology I Lab .....	1 credit
*BSC	2094	Anatomy & Physiology II .....	3 credits
*BSC	2094L	Anatomy & Physiology II Lab .....	1 credit
CGS	1060	College Computing .....	3 credits
*CHM	1045	General Chemistry I.....	3 credits
*CHM	1045L	General Chemistry I Lab .....	1 credit
*CHM	1046	General Chemistry II.....	3 credits
*CHM	1046L	General Chemistry II Lab .....	1 credit

\*See pages 111 - 112. Can be used to meet A. A. General Education requirements at IRSC.

*CHM	2210	Organic Chemistry I.....	3 credits
*CHM	2210L	Organic Chemistry I Lab.....	1 credit
*CHM	2211	Organic Chemistry II.....	3 credits
*CHM	2211L	Organic Chemistry II Lab.....	1 credit
HUN	1201	Nutrition.....	3 credits
*ECO	2013	Principles of Economics Macro .....	3 credits
*MAC	1105	College Algebra.....	3 credits
*MCB	2010	Microbiology for Health Sciences.....	3 credits
*MCB	2010L	Microbiology Lab for Health Sciences.....	1 credit
*PSY	2012	Introduction to Psychology.....	3 credits

**RECOMMENDED ELECTIVES:**

*SYG	2000	Introduction to Sociology.....	3 credits
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**ECONOMICS (BUSINESS) - 11140****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)****REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:**

ACG	2001	Financial Accounting I.....	3 credits
ACG	2011	Financial Accounting II.....	3 credits
ACG	2071	Managerial Accounting.....	3 credits
CGS	1100	Intro to Computer Applications for Business.....	3 credits
*ECO	2013	Principles of Economics Macro .....	3 credits
*ECO	2023	Principles of Economics Micro .....	3 credits
*MAC	2233	Business Calculus I.....	3 credits
*STA	2023	Elementary Statistics I.....	3 credits

**RECOMMENDED ELECTIVES:**

*GEA	2000	World Regional Geography.....	3 credits
*MAC	1140	Precalculus Algebra.....	3 credits
MAT	1033	Intermediate Algebra.....	3 credits
*POS	1041	American Government.....	3 credits
*SYG	2000	Introduction to Sociology.....	3 credits

**ECONOMICS (SOCIAL SCIENCES) - 11150****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)****REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:**

*ECO	2013	Principles of Economics Macro .....	3 credits
*ECO	2023	Principles of Economics Micro .....	3 credits

**RECOMMENDED ELECTIVES:**

ACG	2001	Financial Accounting I.....	3 credits
ACG	2011	Financial Accounting II.....	3 credits
ACG	2071	Managerial Accounting.....	3 credits

**\*See pages 111 - 112.** Can be used to meet A. A. General Education requirements at IRSC.

CGS	1100	Intro to Computer Applications for Business.....	3 credits
*MAC	2233	Business Calculus I.....	3 credits
*POS	1041	American Government .....	3 credits
REA	1205	Advanced College Reading I.....	3 credits
*SPC	1608	Introduction to Speech Communication .....	3 credits
*STA	2023	Elementary Statistics I.....	3 credits
*SYG	2000	Introduction to Sociology .....	3 credits

**EDUCATION - 11160  
(ELEMENTARY/SPECIAL EDUCATION)**

**\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)**

It is recommended that students take the General Knowledge examination during their last year prior to transfer. Specific courses and/or transfer requirements may vary. Please consult an advisor/counselor.

**REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:**

EDF	2005	Introduction to the Teaching Profession .....	3 credits
EDF	2085	Intro to Diversity & Exceptionalities for Educators.....	3 credits
EME	2040	Introduction to Technology for Educators .....	3 credits

At least 6 credits in courses with an international or diversity focus. Foreign language may be used to meet this requirement.

**RECOMMENDED ELECTIVES:**

EDP	2002	Educational Psychology .....	3 credits
EEX	2010	Introduction to Special Education.....	3 credits
LIT	2330	Children’s Literature .....	3 credits
*MGF	2106	Mathematics for Liberal Arts I.....	3 credits
*MGF	2107	Mathematics for Liberal Arts II .....	3 credits
*STA	2023	Elementary Statistics I.....	3 credits

**EDUCATION - 11170  
(SECONDARY)**

**\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)**

It is recommended that students take the General Knowledge examination during their last year prior to transfer. Specific courses and/or transfer requirements may vary. Please consult an advisor/counselor.

**REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:**

EDF	2005	Introduction to the Teaching Profession .....	3 credits
EDF	2085	Intro to Diversity & Exceptionalities for Educators.....	3 credits
EME	2040	Introduction to Technology for Educators .....	3 credits

Secondary Education Majors must complete additional hours in their areas of specialization.

**\*See pages 111 - 112.** Can be used to meet A. A. General Education requirements at IRSC.

At least 6 credits in courses with an international or diversity focus. Foreign language may be used to meet this requirement.

### EDUCATOR PREPARATION INSTITUTE F0010 – 21 CREDITS

This program of study was designed for non-education post-baccalaureate degree holders. The EPI offers the opportunity to become a highly skilled certified teacher building on the participant's content area skills and incorporating the critical competencies that are required of effective teachers.

#### REQUIRED COURSES:

EPI	0001	Classroom Management.....	3 credits
EPI	0002	Instructional Strategies.....	3 credits
EPI	0003	Technology.....	3 credits
EPI	0004	The Teaching & Learning Process.....	3 credits
EPI	0010	Foundations of Research-based Practice.....	3 credits
EPI	0020	Professional Foundations.....	2 credits
EPI	0030	Diversity.....	2 credits
EPI	0940	Field Experience.....	1 credit
EPI	0945	Field Experience.....	1 credit

#### RECOMMENDED ELECTIVES:

EPI	0009	Foundations of Language & Cognition.....	3 credits
EPI	0011	Foundations of Assessment.....	3 credits

### ENGINEERING - 11180

#### \*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)

#### REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:

*CHM	1045	General Chemistry I.....	3 credits
*CHM	1045L	General Chemistry I Lab.....	1 credit
*ENC	1101	English Composition I.....	3 credits
*ENC	1102	English Composition II.....	3 credits
*MAC	2311	Calculus I with Analytic Geometry.....	5 credits
*MAC	2312	Calculus II.....	4 credits
*MAC	2313	Calculus III.....	5 credits
*MAP	2302	Differential Equations.....	3 credits
*PHY	2048	Physics for Engineers I.....	3 credits
*PHY	2048L	Physics for Engineers I Lab.....	1 credit
*PHY	2049	Physics for Engineers II.....	3 credits
*PHY	2049L	Physics for Engineers II Lab.....	1 credit

#### RECOMMENDED ELECTIVES:

*MAS	2103	Linear Algebra.....	3 credits
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\*See pages 111 - 112. Can be used to meet A. A. General Education requirements at IRSC.

**ENGLISH - 11190****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)****REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:**

*ENC	1101	English Composition I.....	3 credits
*ENC	1102	English Composition II.....	3 credits

**RECOMMENDED ELECTIVES:**

*AML	2010	American Literature to 1865.....	3 credits
*AML	2020	American Literature after 1865.....	3 credits
CRW	2001	Creative Writing I.....	3 credits
CRW	2002	Creative Writing II.....	3 credits
*ENL	2012	English Literature to 1798.....	3 credits
*ENL	2022	English Literature after 1798.....	3 credits
*LIT	2110	World Literature: Homer to the Renaissance.....	3 credits
*LIT	2120	World Literature: Enlightenment to Present.....	3 credits
MAT	1033	Intermediate Algebra.....	3 credits
REA	1205	Advanced College Reading I.....	3 credits
REA	1933	Reading for Cultural Literacy.....	3 credits
*SPC	1608	Introduction to Speech Communication.....	3 credits

**ENVIRONMENTAL SCIENCE - 11200****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)****REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:**

*BSC	2010	General Biology I.....	3 credits
*BSC	2010L	General Biology I Lab.....	1 credit
*BSC	2011	General Biology II.....	3 credits
*BSC	2011L	General Biology II Lab.....	1 credit
		or	
*MCB	2010	Microbiology for Health Sciences.....	3 credits
*MCB	2010L	Microbiology Lab for Health Sciences.....	1 credit
*CHM	1045	General Chemistry I.....	3 credits
*CHM	1045L	General Chemistry I Lab.....	1 credit
*CHM	1046	General Chemistry II.....	3 credits
*CHM	1046L	General Chemistry II Lab.....	1 credit
*MAC	1140	Precalculus.....	3 credits
		or	
*MAC	2233	Business Calculus.....	3 credits
*STA	2023	Elementary Statistics I.....	3 credits
*PHY	1020	Principles of Physics.....	3 credits
		or	
*PHY	2053	College Physics.....	3 credits

\*See pages 111 - 112. Can be used to meet A. A. General Education requirements at IRSC.

*PHY	2053L	College Physics Lab.....	1 credit
*ECO	2013	Principles of Economics Macro .....	3 credits
*ECO	2023	Principles of Economics Micro .....	3 credits
*POS	1041	American Government .....	3 credits

**RECOMMENDED ELECTIVES:**

*MAC	2311	Calculus I with Analytical Geology.....	5 credits
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**FILM – 11440**

**\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)**

**REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA**

**UNIVERSITY SYSTEM PROGRAMS:**

*ENG	1123	History of Film I.....	3 credits
FIL	2100	Introduction to Scriptwriting .....	3 credits
MMC	1000	Survey of Mass Communication.....	3 credits

**RECOMMENDED ELECTIVES:**

*AML	2010	American Literature to 1865.....	3 credits
*AML	2020	American Literature after 1865 .....	3 credits
*ENL	2012	English Literature to 1798.....	3 credits
*ENL	2022	English Literature after 1798 .....	3 credits
*ENG	1124	History of Film II.....	3 credits
FIL	2102	Film & Television Scriptwriting.....	3 credits
*LIT	2110	World Literature: Homer to the Renaissance .....	3 credits
*LIT	2120	World Literature: Enlightenment to Present.....	3 credits

**FINANCE/MARKETING - 11210**

**\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)**

**REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA**

**UNIVERSITY SYSTEM PROGRAMS:**

ACG	2001	Financial Accounting I.....	3 credits
ACG	2011	Financial Accounting II.....	3 credits
ACG	2071	Managerial Accounting .....	3 credits
CGS	1100	Intro to Computer Applications for Business .....	3 credits
*ECO	2013	Principles of Economics Macro .....	3 credits
*ECO	2023	Principles of Economics Micro .....	3 credits
*MAC	2233	Business Calculus I.....	3 credits
*STA	2023	Elementary Statistics I.....	3 credits

**RECOMMENDED ELECTIVES:**

*SYG	2000	Introduction to Sociology .....	3 credits
MAT	1033	Intermediate Algebra.....	3 credits
*POS	1041	American Government.....	3 credits

\*See pages 111 - 112. Can be used to meet A. A. General Education requirements at IRSC.



## FOREIGN LANGUAGE - 11220

### \*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)

#### REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:

Universities may require Foreign Language Majors to have a second foreign language as a minor. Students should consult Educational Services for specific requirements for the university of their choice.

#### SPANISH LANGUAGE COURSES:

SPN	1120	Elementary Spanish I.....	4 credits
SPN	1121	Elementary Spanish II.....	4 credits
SPN	2220	Intermediate Spanish I.....	4 credits
SPN	2221	Intermediate Spanish II.....	4 credits

#### FRENCH LANGUAGE COURSES:

FRE	1120	Elementary French I.....	4 credits
FRE	1121	Elementary French II.....	4 credits
FRE	2220	Intermediate French I.....	4 credits
FRE	2221	Intermediate French II.....	4 credits

#### CHINESE LANGUAGE COURSES:

CHI	1120	Elementary Chinese I.....	4 credits
CHI	1121	Elementary Chinese II.....	4 credits
CHI	2220	Intermediate Chinese I.....	4 credits
CHI	2221	Intermediate Chinese II.....	4 credits

#### GERMAN LANGUAGE COURSES:

GER	1120	Elementary German I.....	4 credits
GER	1121	Elementary German II.....	4 credits

#### RECOMMENDED ELECTIVES:

REA	1933	Advanced College Reading I.....	3 credits
*SPC	1608	Introduction to Speech Communication.....	3 credits
EDP	2002	Introduction to Educational Psychology.....	3 credits

## FORESTRY, WILDLIFE ECOLOGY, AND CONSERVATION - 11230

### \*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)

#### REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:

*MAC	2311	Calculus I with Analytic Geometry.....	5 credits
or			
*MAC	2233	Business Calculus I.....	3 credits
*PSY	2012	Introduction to Psychology.....	3 credits
or			
*SYG	2000	Introduction to Sociology.....	3 credits

\*See pages 111 - 112. Can be used to meet A. A. General Education requirements at IRSC.

CGS	1100	Intro to Computer Applications - Business .....	3 credits
or			
CGS	1060	College Computing .....	3 credits
*BSC	2010	General Biology I .....	3 credits
*BSC	2010L	General Biology I Lab .....	1 credit
*BSC	2011	General Biology II .....	3 credits
*BSC	2011L	General Biology II Lab .....	1 credit
*CHM	1045	General Chemistry I.....	3 credits
*CHM	1045L	General Chemistry I Lab .....	1 credit
*ECO	2023	Principles of Economics Micro .....	3 credits
*ENC	2210	Technical Communications.....	3 credits
*PHY	1020	Principles of Physics.....	3 credits
*SPC	1608	Introduction to Speech Communication.....	3 credits
*STA	2023	Elementary Statistics I .....	3 credits

**RECOMMENDED ELECTIVES:**

*CHM	1046	General Chemistry II.....	3 credits
*CHM	1046L	General Chemistry II Lab .....	1 credit

**HISTORY - 11240****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)**

Students majoring in History must take GEA 2000 and one other Social Science course to fulfill the Social Science General Education requirements.

**REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:**

Choose six credits from among the following:

*AMH	2010	American History: Discovery to Reconstruction .....	3 credits
*AMH	2020	American History: Reconstruction to Present.....	3 credits
*EUH	2000	Western Civilization: Origins to 1485.....	3 credits
*EUH	2001	Western Civilization: 1485 to 1815 .....	3 credits
*EUH	2002	Western Civilization: 1815 to Present.....	3 credits
*WOH	2012	World History to 1500.....	3 credits
*WOH	2022	World History since 1500.....	3 credits

**RECOMMENDED ELECTIVES:**

AFA	2000	Afro-American Studies .....	3 credits
AFH	1000	African History since 1800.....	3 credits
*ANT	2410	Introduction to Cultural Anthropology .....	3 credits
*ECO	2013	Principles of Economics Macro .....	3 credits
*INR	2002	Introduction to International Relations .....	3 credits
*POS	1041	American Government .....	3 credits
REA	1933	Reading for Cultural Literacy .....	3 credits

\*See pages 111 - 112. Can be used to meet A. A. General Education requirements at IRSC.

**HUMANITIES - 11250****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)****RECOMMENDED ELECTIVES:**

*AML	2010	American Literature to 1865.....	3 credits
*ARH	2051	History of Art: Renaissance to Modern.....	3 credits
*ENL	2012	English Literature to 1798.....	3 credits
*ENL	2022	English Literature after 1798.....	3 credits
FIL	1030	History of Film.....	3 credits
*HUM	1533	Humanities Philosophy.....	3 credits
*HUM	2512	Humanities Fine Arts.....	3 credits
*LIT	2110	World Literature: Homer to the Renaissance.....	3 credits
*LIT	2120	World Literature: Enlightenment to Present.....	3 credits
MAT	1033	Intermediate Algebra.....	3 credits
*MUL	2010	Survey of Music Literature.....	3 credits
*PHI	1010	Introduction to Philosophy.....	3 credits
*PHI	1103	Critical & Creative Thinking.....	3 credits
PHI	1930	Eastern Philosophies.....	3 credits
PHI	2100	Introduction to Logic.....	3 credits
*PHI	2630	Introduction to Ethics.....	3 credits
REA	1205	Advanced College Reading I.....	3 credits
REA	1933	Reading for Cultural Literacy.....	3 credits

**JOURNALISM/PUBLIC RELATIONS - 11260****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)****REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:**

*SPC	1608	Introduction to Speech Communication.....	3 credits
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**RECOMMENDED ELECTIVES:**

*ECO	2023	Principles of Economics Micro.....	3 credits
*ENC	1107	Advanced College Writing.....	3 credits
JOU	1100	News Reporting & Writing.....	3 credits
MMC	1000	Survey of Mass Communication.....	3 credits
*PSY	2012	Introduction to Psychology.....	3 credits
REA	1933	Reading for Cultural Literacy.....	3 credits
SYG	1250	Multicultural Problems.....	3 credits

**MARINE SCIENCE - 11280****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)****REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:**

*MAC	2311	Calculus I with Analytic Geometry.....	5 credits
and			

\*See pages 111 - 112. Can be used to meet A. A. General Education requirements at IRSC.

*MAC	2312	Calculus II .....	4 credits
or			
*MAC	2233	Business Calculus I .....	3 credits
and			
*STA	2023	Elementary Statistics I .....	3 credits
*BSC	2010	General Biology I .....	3 credits
*BSC	2010L	General Biology I Lab .....	1 credit
*BSC	2011	General Biology II .....	3 credits
*BSC	2011L	General Biology II Lab .....	1 credit
*CHM	1045	General Chemistry I.....	3 credits
*CHM	1045L	General Chemistry I Lab .....	1 credit
*CHM	1046	General Chemistry II.....	3 credits
*CHM	1046L	General Chemistry II Lab .....	1 credit
*CHM	2210	Organic Chemistry I .....	3 credits
*CHM	2210L	Organic Chemistry I Lab.....	1 credit
*CHM	2211	Organic Chemistry II .....	3 credits
*CHM	2211L	Organic Chemistry II Lab.....	1 credit

**RECOMMENDED ELECTIVES:**

*OCB	1000	Introduction to Marine Biology .....	3 credits
*OCB	1000L	Introduction to Marine Biology Lab .....	1 credit
*OCB	1630	Marine Ecology .....	3 credits
*OCE	2001	Introduction to Oceanography.....	3 credits

**MATHEMATICS - 11290****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)****REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:**

*MAC	2311	Calculus I with Analytic Geometry .....	5 credits
*MAC	2312	Calculus II .....	4 credits
*MAC	2313	Calculus III .....	5 credits

## Completion of two laboratory-based science courses:

*BSC	2010	General Biology I .....	3 credits
*BSC	2010L	General Biology I Lab .....	1 credit
or			
*BSC	2011	General Biology II .....	3 credits
*BSC	2011L	General Biology II Lab .....	1 credit
*CHM	1045	General Chemistry I.....	3 credits
*CHM	1045L	General Chemistry I Lab .....	1 credit
or			
*CHM	1046	General Chemistry II.....	3 credits
*CHM	1046L	General Chemistry II Lab .....	1 credit
or			
*PHY	2048	Physics for Engineers I .....	3 credits
*PHY	2048L	Physics for Engineers I Lab .....	1 credit

\*See pages 111 - 112. Can be used to meet A. A. General Education requirements at IRSC.

or			
*PHY	2049	Physics for Engineers II.....	3 credits
*PHY	2049L	Physics for Engineers II Lab.....	1 credit
or			
*PHY	2053	College Physics I.....	3 credits
*PHY	2053L	College Physics I Lab.....	1 credit
or			
*PHY	2054	College Physics II.....	3 credits
*PHY	2054L	College Physics II Lab.....	1 credit
Completion of one computer course:			
COP	2220	C Programming I.....	3 credits
COP	2334	C++ Programming .....	3 credits

**RECOMMENDED ELECTIVES:**

COP	2000	Introduction to Computer Programming I.....	3 credits
*MAP	2302	Differential Equations .....	3 credits
*MAS	2103	Linear Algebra .....	3 credits
*STA	2023	Elementary Statistics I.....	3 credits

**MUSIC - 11300****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)****REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:**

## Performing Ensembles: (4 semesters)

MUN	2140	Wind Ensemble.....	4 semesters x 1 credit
or			
MUN	2310	College Chorale .....	4 semesters x 1 credit
MUT	1111	Theory of Music I.....	3 credits
MUT	1112	Theory of Music II.....	3 credits
MUT	1241	Sightsinging & Ear Training I & II .....	2 semesters x 1 credit
MUT	2116	Theory of Music III.....	3 credits
MUT	2117	Theory of Music IV.....	3 credits
MVK	1111	Class Piano I & II .....	2 semesters x 2 credits
MVK	2121	Class Piano III & IV .....	2 semesters x 2 credits
		Applied Music .....	4 semesters x 1½ credits

**RECOMMENDED ELECTIVES:**

*MUL	2010	Survey of Music Literature.....	3 credits
MUN	2130	Symphonic Band .....	1 credit
MUN	2290	Theatre Orchestra .....	1 credit
MUN	2440	Percussion Ensemble.....	1 credit
MUN	2480	Guitar Ensemble.....	1 credit
MUN	2012	Instrumental Ensemble.....	1 credit
MUN	2710	Stage/ Jazz Band .....	1 credit
MUN	2720	Vocal Ensemble "Company" .....	1 credit
MUO	2020	Music Theatre.....	1 credit

\*See pages 111 - 112. Can be used to meet A. A. General Education requirements at IRSC.

MUT	1001	Fundamentals of Theory.....	3 credits
MUT	1221	Introduction to Sightsinging.....	2 semesters x 2 credits
MUT	1641	Jazz Improvisation I.....	2 credits
MAT	1642	Jazz Improvisation II.....	2 credits

**MUSICAL THEATER – 11450**

**\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)**

**RECOMMENDED ELECTIVES:**

*TPP	1110	Acting .....	3 credits
DAA	1200	Ballet I.....	2 credits
DAA	1201	Ballet II.....	2 credits
DAA	1500	Jazz Dance.....	2 credits
MUT	1111	Theory of Music I.....	3 credits
TPA	2290	Technical Theater .....	1 credit
MUT	1221	Introduction to Sightsinging.....	2 semesters x 2 credits
TPP	1190	Rehearsal & Performance Lab.....	4 semesters x 1 credit
MVV	1113	Class Voice Performance.....	1 credit
MVV	2321	Principal Applied Voice.....	4 semesters x 1½ credits
*MUL	2010	Survey of Music Literature.....	3 credits
MUO	1002	Musical Theater Lab I.....	2 credits
MUO	1003	Musical Theater Lab II.....	2 credits
MVK	1111	Class Piano I & II .....	2 semesters x 2 credits

**\*\*MUSIC THERAPY – 11470**

**\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours) to include:**

ENC 1101, ENC 1102, HUM 1541, MAC 1105, STA 2023, BSC 2010, BSC 2010L, PSY 2012

**RECOMMENDED ELECTIVES:**

		Applied Music .....	4 semesters x 1½ credits
MVO	1310	Applied Music Principle .....	4 semesters x ½ credit
MVK	1111	Class Piano I & II .....	2 semesters x 2 credits
MUS	2934	Arts in Medicine.....	1-3 credits
MUT	1111	Theory of Music I.....	3 credits
MUT	1112	Theory of Music II.....	3 credits
MUT	1221	Introduction to Sightsinging.....	2 semesters x 2 credits
MUT	2116	Theory of Music III.....	3 credits
MUT	2117	Theory of Music IV.....	3 credits
MUY	2600	Recreational Music .....	3 credits
MVK	2121	Class Piano III & IV .....	2 semesters x 2 credits
MUE	2090	Orientation to Music Education/Therapy.....	1 credit
MUT	1241	Sightsinging & Ear Training I & II.....	2 semesters x 1 credit
MVS	1116	Class Guitar-Music Therapy .....	1 credit
		Performing Ensembles.....	4 semesters x 1 credit

\*\*Please Note: Classes listed are required of any student who intends to use the Specialized Articulation Agreement between Indian River State College and Florida State University.

**\*See pages 111 - 112.** Can be used to meet A. A. General Education requirements at IRSC.

**NURSING - 11310****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)****REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:**

HUN	1201	Nutrition .....	3 credits
*BSC	2093	Anatomy & Physiology I .....	3 credits
*BSC	2093L	Anatomy & Physiology I Lab .....	1 credit
*BSC	2094	Anatomy & Physiology II .....	3 credits
*BSC	2094L	Anatomy & Physiology II Lab .....	1 credit
*CHM	1045	General Chemistry I .....	3 credits
*CHM	1045L	General Chemistry I Lab .....	1 credit
*DEP	2004	Human Development .....	3 credits
*MCB	2010	Microbiology for Health Sciences.....	3 credits
*MCB	2010L	Microbiology Lab for Health Sciences.....	1 credit
*PSY	2012	Introduction to Psychology.....	3 credits
*STA	2023	Elementary Statistics I .....	3 credits
*SYG	2000	Introduction to Sociology .....	3 credits

**RECOMMENDED ELECTIVES:**

*BSC	2010	General Biology I .....	3 credits
*BSC	2010L	General Biology I Lab .....	1 credit
*BSC	2011	General Biology II .....	3 credits
*BSC	2011L	General Biology II Lab .....	1 credit
MAT	1033	Intermediate Algebra.....	3 credits

**OCCUPATIONAL THERAPY - 11320****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)****REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:**

*ANT	2410	Introduction to Cultural Anthropology .....	3 credits
or			
*SYG	2000	Introduction to Sociology .....	3 credits
*BSC	2010	General Biology I .....	3 credits
*BSC	2010L	General Biology I Lab .....	1 credit
*BSC	2093	Anatomy & Physiology I .....	3 credits
*BSC	2093L	Anatomy & Physiology I Lab.....	1 credit
*BSC	2094	Anatomy & Physiology II .....	3 credits
*BSC	2094L	Anatomy & Physiology II Lab.....	1 credit
*CHM	1045	General Chemistry I.....	3 credits
*CHM	1045L	General Chemistry I Lab .....	1 credit
CLP	2140	Abnormal Psychology .....	3 credits
*DEP	2004	Human Development .....	3 credits
*PHY	2053	College Physics I.....	3 credits

**\*See pages 111 - 112.** Can be used to meet A. A. General Education requirements at IRSC.

*PHY	2053L	College Physics I Lab.....	1 credit
*PSY	2012	Introduction to Psychology.....	3 credits
*STA	2023	Elementary Statistics I.....	3 credits

### **PARKS AND RECREATION MANAGEMENT - 11270**

#### **\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)**

#### **REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:**

*DEP	2004	Human Development.....	3 credits
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#### **RECOMMENDED ELECTIVES:**

*BSC	1084	Survey of the Human Body.....	4 credits
CGS	1060	College Computing.....	3 credits
*ENC	2210	Technical Communications.....	3 credits
HLP	1081	Personal Wellness.....	3 credits
HSC	2100	Personal & Community Health.....	3 credits
HSC	2400	First Aid & Safety.....	3 credits
MAR	2011	Principles of Marketing.....	3 credits
PEO	2013	Sports Officiating.....	3 credits
PET	2622	Care & Prevention of Athletic Injuries.....	3 credits
PET	2760	Principles of Coaching.....	3 credits
REA	1205	Advanced College Reading I.....	3 credits
*SPC	1608	Introduction to Speech Communication.....	3 credits

### **PHARMACY - 11330**

#### **\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)**

#### **REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:**

*MAC	2311	Calculus I with Analytic Geometry.....	5 credits
or			
*MAC	2233	Business Calculus I.....	3 credits
*BSC	2010	General Biology I.....	3 credits
*BSC	2010L	General Biology I Lab.....	1 credit
*BSC	2011	General Biology II.....	3 credits
*BSC	2011L	General Biology II Lab.....	1 credit
*CHM	1045	General Chemistry I.....	3 credits
*CHM	1045L	General Chemistry I Lab.....	1 credit
*CHM	1046	General Chemistry II.....	3 credits
*CHM	1046L	General Chemistry II Lab.....	1 credit
*CHM	2210	Organic Chemistry I.....	3 credits
*CHM	2210L	Organic Chemistry I Lab.....	1 credit
*CHM	2211	Organic Chemistry II.....	3 credits

**\*See pages 111 - 112.** Can be used to meet A. A. General Education requirements at IRSC.



*CHM	2211L	Organic Chemistry II Lab.....	1 credit
*MAC	1140	Precalculus Algebra.....	3 credits
*MAC	1114	Plane Trigonometry.....	3 credits
*PHY	2053	College Physics I.....	3 credits
*PHY	2053L	College Physics I Lab.....	1 credit
*PHY	2054	College Physics II.....	3 credits
*PHY	2054L	College Physics II Lab.....	1 credit
*SPC	1608	Introduction to Speech Communication .....	3 credits

**RECOMMENDED ELECTIVES:**

*BSC	2093	Anatomy & Physiology I .....	3 credits
*BSC	2093L	Anatomy & Physiology I Lab.....	1 credit
*BSC	2094	Anatomy & Physiology II.....	3 credits
*BSC	2094L	Anatomy & Physiology II Lab.....	1 credit

Students should consult Educational Services for special requirements for the university of their choice.

**PHILOSOPHY - 11340****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)****RECOMMENDED ELECTIVES:**

*HUM	1533	Humanities Philosophy .....	3 credits
HUS	2500	Introduction to Ethics in Human Services .....	3 credits
MAT	1033	Intermediate Algebra.....	3 credits
*PHI	1010	Introduction to Philosophy .....	3 credits
*PHI	1103	Critical & Creative Thinking .....	3 credits
PHI	1450	Philosophy of Psychology.....	3 credits
PHI	1930	Eastern Philosophies .....	3 credits
PHI	2100	Introduction to Logic .....	3 credits
*PHI	2630	Introduction to Ethics.....	3 credits
*POS	1041	American Government.....	3 credits
PPE	2001	Person & Personality Development.....	3 credits
REA	1205	Advanced College Reading I .....	3 credits
*SPC	1608	Introduction to Speech Communication .....	3 credits
*STA	2023	Elementary Statistics I.....	3 credits

**PHYSICAL EDUCATION - 11111****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)**

It is recommended that students take the General Knowledge examination during their last year prior to transfer. Specific courses and/or transfer requirements may vary. Please consult an advisor/counselor.

**REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:**

EDF	2005	Introduction to the Teaching Profession.....	3 credits
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\*See pages 111 - 112. Can be used to meet A. A. General Education requirements at IRSC.

EDF	2085	Intro to Diversity & Exceptionalities for Educators.....	3 credits
EME	2040	Introduction to Technology for Educators.....	3 credits

At least 6 credits in courses with an international or diversity focus. Foreign language may be used to meet this requirement.

PET	2622	Care & Prevention of Athletic Injuries.....	3 credits
or			
*BSC	2094	Anatomy & Physiology II.....	3 credits
and			
*BSC	2094L	Anatomy & Physiology II Lab.....	1 credit
HLP	1081	Personal Wellness.....	3 credits

#### RECOMMENDED ELECTIVES:

*DEP	2004	Human Development.....	3 credits
HSC	2100	Personal & Community Health.....	3 credits
HSC	2400	First Aid & Safety.....	3 credits
PEO	2013	Sports Officiating.....	3 credits
PET	2760	Principles of Coaching.....	3 credits
REA	1933	Reading for Cultural Literacy.....	3 credits
*SPC	1608	Introduction to Speech Communication.....	3 credits
*STA	2023	Elementary Statistics I.....	3 credits

### PHYSICS - 11360

#### \*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)

#### REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA

##### UNIVERSITY SYSTEM PROGRAMS:

*CHM	1045	General Chemistry I.....	3 credits
*CHM	1045L	General Chemistry I Lab.....	1 credit
*CHM	1046	General Chemistry II.....	3 credits
*CHM	1046L	General Chemistry II Lab.....	1 credit
*MAC	2311	Calculus I with Analytic Geometry.....	5 credits
*MAC	2312	Calculus II.....	4 credits
*MAC	2313	Calculus III.....	5 credits
*PHY	2048	Physics for Engineers I.....	3 credits
*PHY	2048L	Physics for Engineers I Lab.....	1 credit
*PHY	2049	Physics for Engineers II.....	3 credits
*PHY	2049L	Physics for Engineers II Lab.....	1 credit

##### RECOMMENDED ELECTIVES:

*MAP	2302	Differential Equations.....	3 credits
*MAS	2103	Linear Algebra.....	3 credits

\*See pages 111 - 112. Can be used to meet A. A. General Education requirements at IRSC.

**POLITICAL SCIENCE - 11370****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)****REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA****UNIVERSITY SYSTEM PROGRAMS:**

CPO	2002	Comparative Politics.....	3 credits
or			
*INR	2002	Introduction to International Relations.....	3 credits
or			
POS	2112	American State & Local Government.....	3 credits
*POS	1041	American Government.....	3 credits

**RECOMMENDED ELECTIVES:**

*ANT	2410	Introduction to Cultural Anthropology.....	3 credits
*ECO	2013	Principles of Economics Macro.....	3 credits
*ECO	2023	Principles of Economics Micro.....	3 credits
*GEA	2000	World Regional Geography.....	3 credits
MAT	1033	Intermediate Algebra.....	3 credits
REA	1933	Reading for Cultural Literacy.....	3 credits
*SYG	2000	Introduction to Sociology.....	3 credits
*WOH	2012	World History to 1500.....	3 credits
or			
*WOH	2022	World History since 1500.....	3 credits

**PRE-MEDICINE/PRE-DENTAL/PRE-VETERINARY/  
PRE-PHYSICAL THERAPY - 11380****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)****REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA****UNIVERSITY SYSTEM PROGRAMS:**

*BSC	2010	General Biology I.....	3 credits
*BSC	2010L	General Biology I Lab.....	1 credit
*BSC	2011	General Biology II.....	3 credits
*BSC	2011L	General Biology II Lab.....	1 credit
*CHM	1045	General Chemistry I.....	3 credits
*CHM	1045L	General Chemistry I Lab.....	1 credit
*CHM	1046	General Chemistry II.....	3 credits
*CHM	1046L	General Chemistry II Lab.....	1 credit
*CHM	2210	Organic Chemistry I.....	3 credits
*CHM	2210L	Organic Chemistry I Lab.....	1 credit
*CHM	2211	Organic Chemistry II.....	3 credits
*CHM	2211L	Organic Chemistry II Lab.....	1 credit
*MAC	2311	Calculus I with Analytic Geometry.....	5 credits

**\*See pages 111 - 112.** Can be used to meet A. A. General Education requirements at IRSC.

*MAC	2312	Calculus II .....	4 credits
or			
*STA	2023	Elementary Statistics I .....	3 credits
*PHY	2053	College Physics I .....	3 credits
*PHY	2053L	College Physics I Lab.....	1 credit
*PHY	2054	College Physics II.....	3 credits
*PHY	2054L	College Physics II Lab.....	1 credit

**RECOMMENDED ELECTIVES:**

Students should consult Educational Services for special requirements for the university and major of their choice.

**PSYCHOLOGY - 11390****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)****REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:**

*BSC	2010	General Biology I .....	3 credits
or			
*BSC	1005	Life Science .....	3 credits
*PSY	2012	Introduction to Psychology.....	3 credits
*STA	2023	Elementary Statistics I .....	3 credits

**RECOMMENDED ELECTIVES:**

*ANT	2410	Introduction to Cultural Anthropology .....	3 credits
*ANT	2140	Intro to Biological Anthropology & Archaeology.....	3 credits
*BSC	2010L	General Biology I Lab .....	1 credit
*BSC	2011	General Biology II .....	3 credits
*BSC	2011L	General Biology II Lab .....	1 credit
CLP	2140	Abnormal Psychology .....	3 credits
*DEP	2004	Human Development .....	3 credits
*ECO	2013	Principles of Economics Macro .....	3 credits
MAT	1033	Intermediate Algebra.....	3 credits
*SYG	2010	Social Problems.....	3 credits

**PUBLIC ADMINISTRATION - 11400****\*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)****REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:**

CGS	1060	College Computing .....	3 credits
*ECO	2013	Principles of Economics Macro .....	3 credits
*POS	1041	American Government .....	3 credits

**RECOMMENDED ELECTIVES:**

*ANT	2410	Introduction to Cultural Anthropology .....	3 credits
*ECO	2023	Principles of Economics Micro .....	3 credits
MAT	1033	Intermediate Algebra.....	3 credits

\*See pages 111 - 112. Can be used to meet A. A. General Education requirements at IRSC.

POS	2112	American State & Local Government.....	3 credits
REA	1933	Reading for Cultural Literacy .....	3 credits
*SPC	1608	Introduction to Speech Communication .....	3 credits

### SOCIAL WORK - 11410

#### \*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)

#### REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA

##### UNIVERSITY SYSTEM PROGRAMS:

*BSC	1005	Life Science .....	3 credits
or			
*BSC	1084	Survey of the Human Body .....	4 credits
*ECO	2013	Principles of Economics Macro .....	3 credits
or			
*ECO	2023	Principles of Economics Micro .....	3 credits
*SYG	2000	Introduction to Sociology .....	3 credits
or			
*SYG	2010	Social Problems.....	3 credits
*POS	1041	American Government .....	3 credits
*PSY	2012	Introduction to Psychology.....	3 credits

##### RECOMMENDED ELECTIVES:

*ANT	2410	Introduction to Cultural Anthropology .....	3 credits
CGS	1060	College Computing.....	3 credits
or			
LIS	2005	Advanced Electronic Access to Information .....	3 credits
CLP	2140	Abnormal Psychology .....	3 credits
HUS	2500	Introduction to Ethics & Human Services.....	3 credits
MAT	1033	Intermediate Algebra.....	3 credits
*PHI	1103	Critical & Creative Thinking .....	3 credits
REA	1933	Reading for Cultural Literacy .....	3 credits
*SPC	1608	Introduction to Speech Communication .....	3 credits
*STA	2023	Elementary Statistics I .....	3 credits
SYG	1250	Multicultural Issues.....	3 credits

### SOCIOLOGY - 11420

#### \*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)

#### REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA

##### UNIVERSITY SYSTEM PROGRAMS:

*SYG	2000	Introduction to Sociology .....	3 credits
*SYG	2010	Social Problems.....	3 credits

##### RECOMMENDED ELECTIVES:

*ANT	2410	Introduction to Cultural Anthropology .....	3 credits
LIS	2005	Advanced Electronic Access to Information .....	3 credits
MAT	1033	Intermediate Algebra.....	3 credits
*POS	1041	American Government .....	3 credits
*PSY	2012	Introduction to Psychology.....	3 credits

\*See pages 111 - 112. Can be used to meet A. A. General Education requirements at IRSC.

REA	1933	Reading for Cultural Literacy.....	3 credits
*SPC	1608	Introduction to Speech Communication.....	3 credits
SYG	1250	Multicultural Issues.....	3 credits

### THEATRE/DRAMATIC ARTS - 11430

#### \*GENERAL EDUCATION REQUIREMENTS AT IRSC (36 credit hours)

#### REQUIRED COURSES AVAILABLE AT IRSC NEEDED FOR TRANSFER TO FLORIDA UNIVERSITY SYSTEM PROGRAMS:

*THE	1000	Introduction to Theatre (Drama).....	3 credits
TPA	1200	Beginning Stagecraft .....	3 credits
*See pages 111 - 112. Can be used to meet A. A. General Education requirements at IRSC.			
TPA	2290	Technical Theatre .....	1 credit
*TPP	1110	Acting .....	3 credits
TPP	1190	Rehearsal & Performance Lab .....	1 - 3 credits

Students must take an additional 9 credits of THE, TPA, and TPP courses.

#### RECOMMENDED ELECTIVES:

*HUM	2512	Humanities: Fine Arts.....	3 credits
MAT	1033	Intermediate Algebra.....	3 credits
MUO	2020	Music Theatre.....	1 - 3 credits
*ORI	1001	Oral Interpretation.....	3 credits
THE	1024	Exploration of the Performance Profession .....	1 credit
TPA	1930	Directing Seminar.....	1 credit
TPP	2153	Televised Scene Workshop .....	1 credit
TPP	2192	Advanced Rehearsal & Performance Lab.....	1 - 3 credits

\*See pages 111 - 112. Can be used to meet A. A. General Education requirements at IRSC.

## **ASSOCIATE IN SCIENCE/ASSOCIATE IN APPLIED SCIENCE DEGREES & CERTIFICATE PROGRAMS**

### **ACCOUNTING TECHNOLOGY**

Certificate in  
Accounting Applications

### **AGRICULTURAL PRODUCTION TECHNOLOGY**

Certificate in  
Aquaculture Technology

### **AIR CONDITIONING, REFRIGERATION & HEATING SYSTEMS TECHNOLOGY**

Certificate in  
A/C, Refrigeration & Heating  
Systems Technology

### **ARCHITECTURAL DESIGN & CONSTRUCTION TECHNOLOGY**

### **AUTOMOTIVE SERVICE MANAGEMENT TECHNOLOGY**

### **BUILDING CONSTRUCTION TECHNOLOGY**

### **BUSINESS ADMINISTRATION**

Certificate in  
Business Management

### **CIVIL ENGINEERING TECHNOLOGY**

### **COMPUTER INFORMATION TECHNOLOGY**

Certificate in  
- Cisco Certified  
Network Associate

- Information Technology Support Specialist
- Computer Programming Specialist
- Web Production
- Office Specialist

### **CRIMINAL JUSTICE TECHNOLOGY A.S. CRIMINAL JUSTICE TECHNOLOGY A.A.S.**

### **DENTAL ASSISTING TECHNOLOGY & MANAGEMENT**

Applied Technology Diploma in  
Dental Assisting Technology & Mgmt

### **DENTAL HYGIENE**

### **DENTAL LABORATORY TECHNOLOGY & MANAGEMENT**

### **DIGITAL MEDIA TECHNOLOGY**

Certificate in  
- Digital Media Production  
- Digital Media Support

### **DRAFTING & DESIGN TECHNOLOGY**

Certificate in  
- AutoCad Foundations  
- Drafting

### **EARLY CHILDHOOD EDUCATION**

Certificate in  
Child Development & Early Intervention

### **ELECTRICAL POWER TECHNOLOGY**

### **ELECTRONICS ENGINEERING TECHNOLOGY**

Certificate in  
- Lasers & Photonics  
- Basic Electronics  
- Electronic Technology

## **A.S. & A.A.S. DEGREES**

## **Technical Certificate Programs**



**EMERGENCY ADMINISTRATION & MANAGEMENT**

Certificate in

- Emergency Management
  - Homeland Security
- Emergency Manager

**EMERGENCY MEDICAL SERVICES**

Applied Technology Diploma in  
Emergency Medical Technology  
Certificate in Paramedics

**FIRE SCIENCE TECHNOLOGY**

**GOLF COURSE OPERATIONS**

Applied Technology Diploma in

- Turf Equipment
- Pest Control Operations

**GRAPHIC DESIGN TECHNOLOGY**

Certificate in

- Graphic Design Support
- Graphic Design Production

**HEALTH INFORMATION MANAGEMENT**

Certificate in

Medical Information Coder/Biller

**HEALTH SERVICES MANAGEMENT**

**HUMAN SERVICES**

**INTERIOR DESIGN TECHNOLOGY**

Certificate in

Kitchen & Bath

**LANDSCAPE & HORTICULTURE TECHNOLOGY**

Certificate in

- Landscape & Horticulture Specialist
- Landscape & Horticulture Professional
- Landscape & Horticulture Technician

**MARKETING MANAGEMENT**

Certificate in

Marketing Operations

**MEDICAL LABORATORY TECHNOLOGY**

**NURSING, A.S. DEGREE - R.N.**

Advanced Technical Certificate in  
Perioperative Nursing

**PARALEGAL STUDIES/LEGAL ASSISTING**

**PHYSICAL THERAPIST ASSISTANT**

Advanced Technical Certificate in  
Manual Techniques for the PTA

**RADIOGRAPHY**

Certificate in

Nuclear Medicine Technology  
Specialist

Advanced Technical Certificate in  
PET/CT

**RESPIRATORY CARE**

Advanced Technical Certificate in  
Advanced Respiratory Care Practice

**RESTAURANT MANAGEMENT**

**THEATRE & ENTERTAINMENT TECHNOLOGY**

**A.S. & A.A.S. DEGREES**  
**Technical Certificate Programs**



## ASSOCIATE IN SCIENCE/ASSOCIATE IN APPLIED SCIENCE DEGREES and Technical Certificate Programs

The **Associate in Science** and **Associate in Applied Science** Degree programs are designed for students wishing to develop technical skills with emphasis on 21<sup>st</sup> Century employment opportunities. This two-year college degree program focuses on high technology careers, prepares students to compete effectively in the contemporary job market and transfers into the IRSC Baccalaureate Degree programs.

The **Technical Certificate** is awarded to a student who has completed the required number of college credit hours that are part of the two-year A.S. or A.A.S. Degree program. Students must complete at least twenty-five (25%) of the certificate course requirements at IRSC with a cumulative GPA of 2.0 or higher in the coursework for the Certificate.

The **Applied Technology Diploma (ATD)** consists of a course of study that is part of an Associate in Science (A.S.) or an Associate in Applied Science (A.A.S.) Degree and leads to employment. Student must have a high school diploma, submit required placement scores on the TABE test, and complete at least twenty-five (25%) of the ATD requirements at IRSC with a cumulative GPA of 2.0 or higher.

The Applied Technology Diploma and the Technical Certificate are designed to prepare the student to obtain employment as a skilled/paraprofessional worker. Students may then complete the remaining requirements for the Associate in Science or Associate in Applied Science Degree programs while employed.

The A.S. and A.A.S. Degrees include a cluster of General Education courses in the areas of Humanities/Fine Arts, Natural Science/Mathematics, and Social/Behavioral Science. Students also complete credits in an area of specialty, and additional credits are earned in technical support classes.

The **Advanced Technical Certificate (ATC)** is a specialized certification in a technical area beyond the award of the A.S./A.A.S. Degrees.

Effective Fall Term 2000, a statewide articulation agreement between the State University System and the Community Colleges of Florida provides for the articulation of selected Associate in Science Degrees to selected Baccalaureate Degrees (State Board of Education Rule 6A-10.024). The programs available at IRSC are Nursing-Associate Degree, Radiography and Criminal Justice. Consult Educational Services to determine specific requirements.

Other A.S. Degree programs not included in this agreement may also be accepted by public and private upper division institutions. This determination is made by the receiving university or college and not by IRSC. Consult Educational Services to determine specific requirements.

## ASSOCIATE IN SCIENCE/ASSOCIATE IN APPLIED SCIENCE DEGREE REQUIREMENTS

To meet the requirements for the Associate in Science and Associate in Applied Science Degrees, the student must complete the required General Education courses and program specialty requirements as specified in this catalog. In addition, the student must:

1. Submit the required placement scores (ACTE, SATR, Florida Entry Level College Placement Test) to IRSC. Students who test into college preparatory instruction must successfully complete the required college preparatory courses in English, math, and reading.
2. Achieve a cumulative grade point average of not less than 2.0 in all courses attempted (including transfer hours, but, excluding college preparatory courses) and in all courses taken at Indian River State College.
3. Demonstrate competency in the basic use of computers by passing a computer competency examination, by successfully completing an approved computer course (grade of "S" or "C" or better), or by completing an approved program of study that includes the basic use of computers.

- A. The computer competency examination may be taken at any of the IRSC Assessment Services Department.

Demonstration of competency in the basic use of computers includes:

- 1) running a Windows-based (or equivalent) program;
  - 2) using a word processing program to create, save, retrieve, edit, and print a file;
  - 3) using the Internet to send e-mail and to locate and to print specific reference materials.
- B. Courses approved to meet the computer competency requirement for the Associate in Science or Associate in Applied Science Degree are: CGS 1060; CGS 1100; CIS 1000; EME 2040; OST 1713.
  - C. Completion of the Information Systems & Computer Applications CLEP examination with a minimum score of 50.
  - D. Programs approved to meet the computer competency requirement for the Associate in Science/Associate in Applied Science Degree are:
    - Accounting Technology
    - Agricultural Production Technology
    - Architectural Design and Construction Technology
    - Business Administration
    - Civil Engineering Technology
    - Computer Information Technology
    - Digital Media Technology
    - Drafting and Design Technology
    - Electronics Engineering Technology
    - Golf Course Operations
    - Graphic Design Technology
    - Health Information Management
    - Health Services Management

- Interior Design Technology
  - Landscape and Horticulture Technology
  - Marketing Management
  - Office Administration
  - Physical Therapist Assistant
  - Radiography
  - Theatre and Entertainment Technology
4. Students must complete at least twenty-five (25%) of the total program credits at IRSC.
  5. Students earning the Associate in Science Degree must earn a grade of “C” or higher in math and English courses selected that are designated as Gordon Rule courses.
  6. Apply for graduation by the published deadline date of the semester in which the student plans to graduate. This application must include the payment of the Commencement fee. See Academic Calendars near the front of this catalog for deadline dates.
  7. Participate in the Commencement Ceremony if graduating Spring Semester. Graduates from other semesters are welcome to take part in the Spring Commencement Ceremony.
  8. Be recommended by the faculty to the President of the College for the confirmation of the degree.

It is the responsibility of the student, not the College, to check his or her records to be sure that all of the above graduation requirements are met. An Educational Services Advisor/Counselor will assist at any time with course selections and in determining status toward meeting the graduation requirements.

## **SPECIAL REQUIREMENTS**

Applicants to the Health Science programs at IRSC are subject to special admission requirements and dates. Therefore, it is imperative that applicants who wish to enroll in the Associate Degree Nursing, Dental Lab Technology, Dental Hygiene, Emergency Medical Services Technology, Medical Lab Technology, Physical Therapist Assistant, Radiography, and Respiratory Care Programs consult with an IRSC advisor/counselor well before the term of enrollment. Special application deadlines are noted in the Academic Calendar near the front of this catalog. Additional General Education credits may be required for specialized programs.

## **ASSOCIATE IN SCIENCE/ASSOCIATE IN APPLIED SCIENCE DEGREE COURSES REQUIRED FOR GRADUATION**

GENERAL EDUCATION - A minimum of 15 credits of General Education courses are required. See Program Guides for specific requirements. At least one course from each of the following areas must be included:

### **HUMANITIES/FINE ARTS**

\*AML 2010, \*AML 2020, \*ARH 1000, \*ARH 2050, \*ARH 2051, ART 1300C, ART 1301C, ART 2500C, CHI 1120, CHI 1121, CHI 2220, CHI 2221, CRW 2001, CRW 2002, \*ENC 1101, \*ENC 1102, \*ENC 1107, \*ENC 2210, \*ENC 2133, \*ENG 1123, \*ENG 1124, \*ENL 2012, \*ENL 2022, FRE 1120, FRE 1121, FRE 2220,

FRE 2221, GER 1120, GER 1121, \*HUM 1233, \*HUM 1533, \*HUM 1541, \*HUM 2512, \*IDS 1110, \*IDS 1955, \*ISC 2133, \*LIN 2670, \*LIT 2110, \*LIT 2120, LIT 2330, \*MUL 2010, \*MUL 2012, \*MUY 2100, \*ORI 1001, \*PHH 2060, \*PHH 2403, \*PHH 2603, \*PHI 1002, \*PHI 1010, \*PHI 1103, PHI 1450, \*PHI 1635, \*PHI 1801, \*PHI 2620, \*PHI 2623, \*PHI 2630, REA 1205, \*REL 1300, SPC 1300, \*SPC 1608, SPN 1120, SPN 1121, SPN 2220, SPN 2221, \*THE 1000, \*THE 2300, \*TPP 1110

\*Gordon Rule Course

### **NATURAL SCIENCE/MATHEMATICS**

Natural Science: AST 1002, AST 1002L, BOT 2010, BOT 2010L, BSC 1005, BSC 1005L, BSC 1009, BSC 1084, BSC 1254, BSC 1254L, BSC 1421, BSC 1421L, BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, BSC 2093, BSC 2093L, BSC 2094, BSC 2094L, BSC 2426, BSC 2426L, BSC 2427, BSC 2427L, CHM 1020, CHM 1045, CHM 1045L, CHM 1046, CHM 1046L, CHM 1083, CHM 2210, CHM 2210L, CHM 2211, CHM 2211L, CHS 1510, ESC 1000, GLY 1010, MCB 2010, MCB 2010L, MET 1001, OCB 1000, OCB 1000L, OCB 1630, OCB 1630L, OCE 2001, OCE 2001L, PCB 1030, PHY 1020, PHY 2048, PHY 2048L, PHY 2049, PHY 2049L, PHY 2053, PHY 2053L, PHY 2054, PHY 2054L, PSC 1341, PSC 1341L

\*Mathematics: MAC 1105, MAC 1140, MGF 2106, MGF 2107, MAC 1114, MAC 2311, MAC 2312, MAC 2313, MAC 2233, MAC 2234, MAD 2104, MAP 2302, MAS 2103, MTG 2204, STA 2023, PHI 2100, (MAT 1033 and MTB 1321 may be used for A.A.S. programs, not Gordon Rule)

\*Gordon Rule - must achieve a grade of "C" or higher for the Associate in Science Degree.

Regardless of degree requirements, a series of college preparatory math courses will be required of all students who test into college preparatory level math.

### **SOCIAL/BEHAVIORAL SCIENCE**

AFH 1000, AMH 2010, AMH 2020, ANT 1000, ANT 2010, ANT 2140, ANT 2402, ANT 2410, ASN 1010, CPO 2002, DEP 2004, ECO 2000, ECO 2013, ECO 2023, EUH 2000, EUH 2001, EUH 2002, GEA 2000, INR 2002, INR 2500, POS 1041, POS 2112, PSY 2012, SYG 2000, SYG 2010, WOH 2012, WOH 2022, WOH 2040

When college level exams are successfully passed for Advanced Placement (AP), International Baccalaureate (IB), and the College Level Examination Program (CLEP), the following courses can be awarded for General Education Requirements:

**HUMANITIES** - AML X000 (CLEP), ENL X000 (CLEP)

**MATHEMATICS** - STA 2014 (AP), MAC X147 (CLEP), MHF X202 (IB), MHF X209 (IB)

**SCIENCE** - CHM X020 (AP and CLEP), ISC X050 (IB), ISC X051 (AP), PHY X020 (IB)

**SOCIAL SCIENCE** - EUH X009 (AP), GEO X400 (AP), AMH X000 (AP)

### **ADDITIONAL REQUIREMENTS**

#### **READING**

Regardless of degree requirements, a series of college preparatory reading courses will be required of all students who test into college preparatory level reading.

#### **ELECTIVES**

Additional credits may be required in specific technical fields to complete the degree program. Refer to Program Guides on the following pages for specific program requirements.

COMPUTER COMPETENCY – see page 144.

**PROGRAM GUIDES**

To earn the Associate in Science or Associate in Applied Science Degree, certain General Education requirements and courses for the major must be satisfactorily completed. The following programs meet the requirements for the Associate in Science or Associate in Applied Science Degree and include the required and elective courses generally recommended for job preparedness.

In planning a program of study at Indian River State College, the student is urged to consult an Educational Services Advisor/Counselor. The student is advised to review the overall requirements of the degree program before making course selections.

Final responsibility for choice of program and courses selected rests with the student. Please note, the Planned Major required for the IRSC Application for Admission is the five digit number following the Program Title.

**PRACTICAL TRAINING**

An important component of many of the Associate in Science and Associate in Applied Science Degree programs is the practical training experience. This experience is designed to complement and enhance the theoretical program requirements and is closely supervised by IRSC instructors. Specific training activities and assignments are included in course requirements and students in these classes meet at least weekly with instructors to discuss progress, goals, and activities. The credit-hour assignment and grading systems used for these classes is consistent with all other resident college courses. Specific descriptions for these courses are included in the Course Description section of this catalog. Students are encouraged to contact the department chairperson if they have questions regarding any of these classes.

**ACCOUNTING TECHNOLOGY**

**20450 - 64 CREDITS**

**ACCOUNTING APPLICATIONS CERTIFICATE - 60010**

This degree program prepares graduates for intermediate-level accounting positions within the wide range of industries prominent on the Research Coast. While providing a strong theoretical foundation, this program emphasizes the development of marketable skills required to succeed in today’s highly competitive business world. Traditional classroom instruction is supplemented by “hands-on” micro-computer programming experience to mirror today’s accounting services climate.

**GENERAL EDUCATION**

Humanities/Fine Arts

ENC 1101 and ENC 1102 or SPC 1608.....6 credits

Natural Science/Mathematics

STA 2023.....3 credits

Social/Behavioral Science

ECO 2013, ECO 2023 .....6 credits

**MAJOR FIELD REQUIRED COURSES - 33 credits**

CGS 1060 College Computing.....3 credits

or		
CGS	1100	Intro to Computer Applications for Business.....3 credits
CTS	1205	Excel I.....3 credits
ENC	2200	Business Communications .....3 credits
or		
ENC	2210	Technical Communications.....3 credits
MNA	2100	Interpersonal Relations in Business .....3 credits
or		
SLS	1261	Essentials of Contemporary Leadership.....3 credits
ACG	2001	Financial Accounting I.....3 credits
ACG	2011	Financial Accounting II.....3 credits
ACG	2071	Managerial Accounting .....3 credits
ACG	2100	Intermediate Accounting.....3 credits
BUL	2241	Business Law I.....3 credits
MAT	1033	Intermediate Algebra.....3 credits
TAX	2000	Income Tax.....3 credits

**MAJOR FIELD ELECTIVES - Select 16 credits**

GEB	1011	Introduction to Business.....3 credits
or		
GEB	1931	Introduction to Business Technology .....3 credits
ACG	2949	Accounting Seminar and Supervised Internship.....3 credits
APA	1152	Orientation to QuickBooks.....1 credit
APA	1153	QuickBooks II.....1 credit
BUL	2242	Business Law II.....3 credits
CGS	1555	Orientation to Internet.....1 credit
CIS	1000	Introduction to Information Technology .....3 credits
COP	2701	Database Programming.....3 credits
ETI	1932	Introduction to Technology.....3 credits
FIN	2001	Introduction to Finance.....3 credits
MAN	2021	Principles of Management.....3 credits
MAR	2011	Principles of Marketing .....3 credits
PSY	2012	Introduction to Psychology.....3 credits

Students may enhance their career success by first completing the 27 credits outlined below which comprise the **Accounting Applications** certificate. Attaining the A.S. Degree is then simply a matter of completing the General Education required courses and the remaining credits of **Major Field** and **Elective** courses.

**ACCOUNTING APPLICATIONS CERTIFICATE - 60010 - 27 CREDITS**

**MAJOR FIELD REQUIRED COURSES - 18 credits**

CGS	1100	Intro to Computer Applications for Business.....3 credits
or		
CTS	1205	Excel I.....3 credits
ACG	2001	Financial Accounting I.....3 credits
ACG	2011	Financial Accounting II.....3 credits
ACG	2071	Managerial Accounting.....3 credits
ACG	2100	Intermediate Accounting.....3 credits

TAX	2000	Income Tax.....	3 credits
<b>MAJOR FIELD ELECTIVES - Select 9 credits</b>			
CGS	1060	College Computing .....	3 credits
ECO	2013	Principles of Economics Macro .....	3 credits
or			
ECO	2023	Principles of Economics Micro .....	3 credits
ENC	2200	Business Communications.....	3 credits
or			
ENC	2210	Technical Communications.....	3 credits
MNA	2100	Interpersonal Relations in Business .....	3 credits
or			
SLS	1261	Essentials of Contemporary Leadership.....	3 credits
APA	1152	Orientation to QuickBooks.....	1 credit
BUL	2241	Business Law I.....	3 credits
COP	2701	Database Programming.....	3 credits

**AGRICULTURAL PRODUCTION TECHNOLOGY**  
**A0010 - 60 CREDITS**  
**ASSOCIATE IN APPLIED SCIENCE DEGREE**  
**AQUACULTURE TECHNOLOGY CERTIFICATE - 60170**

Agriculture, one of the Research Coast’s leading industries, offers unmatched career opportunities. Today, all phases of agriculture, from research to production to marketing, demand skilled employees who have the educational background and technical training to develop and apply new technological advances in the field. The A.A.S. Degree in Agricultural Production Technology is designed for students who wish to enter the industry at a mid-management level after two years of college. The Degree offers four areas of specialization: Animal Science, Aquaculture, and Environmental Horticulture.

**GENERAL EDUCATION**

Humanities/Fine Arts

ENC 1101..... 3 credits

Natural Science/Mathematics

see page 146..... 3 credits

Social/Behavioral Science

see page 146..... 3 credits

Humanities/Fine Arts or Natural Science/Mathematics

or Social/Behavioral Science

OCE 2001, OCB 1000 or CHM 1020 recommended..... 6 credits

**MAJOR FIELD REQUIRED COURSES - 19 credits**

AEB	2104	Principles of Agricultural Economics.....	4 credits
AEB	1132	Farm Management.....	3 credits
CGS	1060	College Computing .....	3 credits
MAN	2021	Principles of Management.....	3 credits
MAR	2011	Principles of Marketing .....	3 credits
SBM	1000	Entrepreneurship .....	3 credits

**SUGGESTED SPECIALIZATION ELECTIVES – Select 26 credits****ANIMAL SCIENCE**

AEB	1135	Florida Cow-Calf Management .....	3 credits
ANS	1003	Introduction to Animal Science .....	3 credits
ANS	1310	Animal Reproduction.....	3 credits
HOS	1010	Fundamentals of Horticulture .....	4 credits
SWS	2104	Soils & Fertilizers.....	3 credits
VME	1104	Animal Health .....	3 credits

**AQUACULTURE**

FAS	1010	Introduction to Aquaculture .....	3 credits
FAS	2020	Principles of Fish Aquaculture.....	4 credits
FAS	2150	Principles of Crustacean Aquaculture.....	4 credits
FAS	2151	Principles of Molluscan Aquaculture .....	4 credits
FAS	2252	Aquatic Animal Health Management .....	4 credits
FAS	2412	Water Quality, Systems & Operations .....	4 credits

**ENVIRONMENTAL HORTICULTURE**

HOS	1010	Fundamentals of Horticulture .....	4 credits
HOS	1060	Compost & Recycling .....	3 credits
ORH	1231	Lawn Care Maintenance.....	3 credits
ORH	1510	Plant Identification .....	3 credits
ORH	2841	Landscape Installation.....	3 credits
ORH	2859	Landscape Design & Maintenance.....	3 credits
PMA	2211	Insects & Diseases of Ornamental Plants .....	3 credits
SWS	2104	Soils & Fertilizers.....	3 credits

**MAJOR FIELD ELECTIVES**

AEB	1943	Agribusiness Work Experience .....	1 - 3 credits
AGR	1540C	Fundamental Principles of Arboriculture .....	3 credits
AGR	1930	Special Topics in Arboriculture .....	1 credit
BUL	2241	Business Law I.....	3 credits
BUL	2242	Business Law II.....	3 credits
CGS	1000	Introduction to Computer Usage .....	3 credits
CGS	1100	Intro to Computer Applications for Business.....	3 credits
DIM	1001	Introduction to Diesel Engines .....	4 credits
ENY	1002	Fundamentals of Entomology.....	3 credits
ETD	1320	Introduction to AutoCAD.....	3 credits
ETD	2568C	CAD-Landscape .....	3 credits
ETI	1932	Introduction to Technology.....	3 credits
FAS	2930	Special Topics in Aquaculture.....	1 - 4 credits
HOS	1930	Special Topics in Horticulture.....	1 - 4 credits
MAN	2300	Human Resource Management .....	3 credits
MAR	2011	Principles of Marketing .....	3 credits
ORH	1511	Plant Identification II .....	3 credits
ORH	1710	Environmental Landscape Management.....	1 credit
ORH	2601	Retail Nursery Operations.....	3 credits
PMT	1100	Welding Certification Prep .....	½ credit



PMT	1120	Electrical Welding I.....	4 credits
PMT	1125	Electrical Welding II.....	4 credits
PMT	1128	Combination Welding.....	4 credits
PMT	2930	Welding Fabrication Techniques .....	3 credits
PMT	2931	Welding Design & Fabrication .....	4 credits
SWS	1102	Irrigation Systems I.....	3 credits
SWS	2304	Irrigation Systems II.....	3 credits
SPN	1000	Spanish for Daily Use I.....	2 credits

**AQUACULTURE TECHNOLOGY CERTIFICATE - 60170 - 26 credits**

**Select 26 credits from the following:**

FAS	1010	Introduction to Aquaculture .....	3 credits
FAS	2020	Principles of Fish Aquaculture.....	4 credits
FAS	2150	Principles of Crustacean Aquaculture.....	4 credits
FAS	2151	Principles of Molluscan Aquaculture .....	4 credits
FAS	2252	Aquatic Animal Health Management .....	4 credits
FAS	2412	Water Quality, Systems & Operations .....	4 credits
FAS	2930	Special Topics in Aquaculture.....	1 - 4 credits
AEB	1943	Agribusiness Work Experience .....	1 - 3 credits
AEB	1132	Farm Management.....	3 credits
SBM	1000	Entrepreneurship .....	3 credits

**AIR CONDITIONING, REFRIGERATION, &  
HEATING SYSTEMS TECHNOLOGY**

**A0020 - 64 CREDITS**

**ASSOCIATE IN APPLIED SCIENCE DEGREE**

**AIR CONDITIONING, REFRIGERATION, & HEATING SYSTEMS TECHNOLOGY  
CERTIFICATE - 60250**

As a result of the warm weather, South Florida has one of the nation's most active air conditioning industries. Today, all phases of the air conditioning, heating, and refrigeration industry require skilled employees who have the educational background and technical training to develop and apply new technological advances in the field. At the completion of the Associate in Applied Science Degree in Air Conditioning, Refrigeration, and Heating Systems Technology, graduates are prepared for employment opportunities in residential, commercial, and industrial air conditioning, and refrigeration.

**GENERAL EDUCATION**

Humanities/Fine Arts

ENC 1101..... 3 credits

Natural Science/Mathematics

MAT 1033 or higher..... 3 credits

Social/Behavioral Science

see page 146..... 3 credits

Humanities/Fine Arts or Natural Science/Mathematics

or Social/Behavioral Science

see pages 145 - 146..... 6 credits

**MAJOR FIELD REQUIRED COURSES - 37 credits**

ACR	1008	Principles of A/C & Refrigeration .....	3 credits
ACR	1112	Basic Electricity for A/C & Refrigeration .....	3 credits
ACR	1101	Applied Electricity I .....	3 credits
ACR	1113	Applied Electricity II .....	3 credits
ACR	1103	HVAC Control Systems.....	3 credits
ACR	1208	Refrigerant Recovery & Reclaim .....	1 credit
ACR	1611	Heat.....	3 credits
ACR	1612	Heat Pump Systems.....	3 credits
ACR	1740	Components of Refrigeration .....	3 credits
ACR	2067	Heating & Cooling Load Calculations.....	3 credits
ACR	2071	A/C & Heating Service Management.....	3 credits
ACR	2421	Duct Systems.....	3 credits
ACR	2745	Light Commercial Refrigeration & A/C.....	3 credits

**MAJOR FIELD ELECTIVES - Select 12 credits**

ACR	1931	Special Topics in HVAC.....	½ - 4 credits
ACR	1730	R-410A Certification .....	1 credit
ACR	1731	Green Mechanical Awareness Certification.....	1 credit
ACR	1946	A/C Cooperative Work Experience I .....	4 credits
ACR	1947	A/C Cooperative Work Experience II .....	4 credits
ACR	1948	A/C Cooperative Work Experience III .....	4 credits
ACR	1949	A/C Cooperative Work Experience IV .....	4 credits
AER	2758	Automotive A/C & Heating.....	4 credits
ETI	1932	Introduction to Technology.....	3 credits
ETM	1111	Energy in Building Design .....	3 credits
GEB	1931	Introduction to Business Technology .....	3 credits
PMT	1128	Combination Welding I .....	4 credits

**AIR CONDITIONING, REFRIGERATION, & HEATING SYSTEMS TECHNOLOGY  
CERTIFICATE - 60250 - 25 CREDITS**

ACR	1008	Principles of A/C & Refrigeration .....	3 credits
ACR	1112	Basic Electricity for A/C & Refrigeration .....	3 credits
ACR	1101	Applied Electricity I .....	3 credits
ACR	1113	Applied Electricity II.....	3 credits
ACR	1208	Refrigerant Recovery & Reclaim .....	1 credit
ACR	1611	Heat.....	3 credits
ACR	1612	Heat Pump Systems.....	3 credits
ACR	2067	Heating & Cooling Load Calculations.....	3 credits
ACR	2071	A/C & Heating Service Management.....	3 credits

**ARCHITECTURAL DESIGN & CONSTRUCTION TECHNOLOGY  
20460 - 66 CREDITS**

This degree trains students in the latest methods of producing drawings for a variety of business applications. Most courses combine classroom instruction with lab practice, where real life activities are emphasized. The professional architectural draftsman prepares construction plans for projects related to the building construction industry.

Architectural offices, design/development firms, general contractors, and truss manufacturing plants are just a few of the businesses that engage architectural drafting services.

### GENERAL EDUCATION

#### Humanities/Fine Arts

ENC 1101 ..... 3 credits

#### Natural Science/Mathematics

PHY 1020 ..... 3 credits

#### Social/Behavioral Science

see page 146 ..... 3 credits

#### Humanities/Fine Arts or Natural Science/Mathematics

#### or Social/Behavioral Science

see pages 145 - 146 ..... 6 credits

### MAJOR FIELD REQUIRED COURSES - 33 credits

BCN 1214 Materials & Methods-Basic Structure ..... 3 credits

BCN 1215 Materials & Methods-Finishes & Systems ..... 3 credits

BCN 1250 Architectural Drafting Principles..... 3 credits

BCN 2251 Architectural Drafting-Residential ..... 3 credits

BCT 1760 Building Codes & Specifications..... 3 credits

ETD 1320 Introduction to AutoCAD..... 3 credits

ETD 1842 3D Studio VIZ Level I ..... 3 credits

ETD 2340 AutoCAD Level 2 ..... 3 credits

ETD 2395 CAD - Architectural ..... 3 credits

ETM 1111 Energy in Building Design ..... 3 credits

IND 1019 Commercial Interior Design II ..... 3 credits

### MAJOR FIELD ELECTIVES -Select 18 credits

BCT 1940 Professional Practice ..... 3 credits

BCT 2770 Construction Est.-Foundation to Structure ..... 3 credits

BCT 2772 Construction Est.-Finishes & Systems ..... 3 credits

ETD 2568C CAD - Landscape ..... 3 credits

DIG 2302 3D Digital Animation I ..... 3 credits

DIG 2303 3D Digital Animation II ..... 3 credits

ETD 2551 CAD - Civil..... 3 credits

ETI 1932 Introduction to Technology..... 3 credits

GIS 1060 Geographic Information Systems with ArcView ..... 3 credits

IND 1462 Introduction to Architectural CAD ..... 3 credits

ORH 2859 Landscape Design & Maintenance ..... 3 credits

## AUTOMOTIVE SERVICE MANAGEMENT TECHNOLOGY

### A0030 - 68 CREDITS

### ASSOCIATE IN APPLIED SCIENCE DEGREE

In the Automotive Service Technology Program students receive a thorough foundation in all aspects of automotive services and maintenance. IRSC's program is certified in all eight categories by the National Institute of Automotive Service Excellence (ASE), and provides essential training in both the theory and service of today's automotive systems and components.

**GENERAL EDUCATION**

Humanities/Fine Arts

ENC 1101..... 3 credits

Natural Science/Mathematics

see page 146 (Recommend PHY 1020) ..... 3 credits

Social/Behavioral Science

see page 146 (Recommend PSY 2012)..... 3 credits

Humanities/Fine Arts or Natural Science/Mathematics  
or Social/Behavioral Science

see pages 145 - 146 (Recommend SPC 1300) ..... 6 credits

**MAJOR FIELD REQUIRED COURSES - 46 credits**

AER	1081C	Introduction to Automotive Technology.....	3 credits
AER	1198	Engine Overhaul, Repair & Testing.....	4 credits
AER	1498	Suspension, Steering & Alignment.....	4 credits
AER	1598	Automotive Brake Systems.....	4 credits
AER	1694C	Introduction to Automotive Electrical Systems.....	3 credits
AER	2298	Automatic Transmissions & Transaxles.....	4 credits
AER	2398	Manual Drive Train & Axles.....	4 credits
AER	2895C	Advanced Engine Performance.....	4 credits
AER	2898C	Engine Performance.....	4 credits
AER	2695C	Advanced Automotive Electrical Systems.....	4 credits
AER	2758	Automotive A/C & Heating.....	4 credits
DIM	1001	Introduction to Diesel Engines.....	4 credits

**MAJOR FIELD ELECTIVES - Select 7 credits**

AER	1020C	Orientation to Vehicle Maintenance.....	1 - 3 credits
AER	1810	Automotive Work Experience.....	1 - 4 credits
AER	1937	Special Topics in Automotive.....	1/2 - 4 credits
AER	2139	A1 Engine Repair ASE Test Prep.....	1 credit
AER	2200	A2 Automatic Transmissions/Transaxle ASE Test Prep.....	1 credit
AER	2302	A3 Manual Drive Train & Axles & ASE Test Prep.....	1 credit
AER	2409	A4 Suspension & Steering ASE Test Prep.....	1 credit
AER	2519	A5 Brakes ASE Test Prep.....	1 credit
AER	2696	A6 Electrical/Electronic Systems ASE Test Prep.....	1 credit
AER	2796C	A7 Heating & Air Conditioning ASE Test Prep.....	1 credit
AER	2894	A8 Engine Performance ASE Test Prep.....	1 credit
AER	2890	L1 Auto Advanced Engine Performance Specialty ASE Test Prep.....	1 credit
ARR	1002	Automotive Body I.....	3 credits
CGS	1060	College Computing.....	3 credits
CGS	1100	Intro to Computer Applications for Business.....	3 credits
EGS	1110	Engineering Graphics.....	3 credits
GEB	1011	Introduction to Business.....	3 credits
MNA	2100	Interpersonal Relations in Business.....	3 credits
PMT	1128	Combination Welding I.....	4 credits
SBM	1000	Entrepreneurship.....	3 credits

## BUILDING CONSTRUCTION TECHNOLOGY 20470 - 64 CREDITS

One of the prominent areas in the United States for new homes and commercial building construction, Florida provides many promising career opportunities for students involved in the building construction field. The Building Construction Technology program emphasizes practical application of management competencies needed by estimators, construction planners, field supervisors, project managers, sales managers, facility directors and managers, builders, and various entrepreneurs.

### GENERAL EDUCATION

Humanities/Fine Arts

ENC 1101 and ENC 1102 or ENC 1107 or ENC 2210 ..... 6 credits

Natural Science/Mathematics

PHY 1020 or higher, MAC 1105 or higher ..... 6 credits

Social/Behavioral Science

ECO 2000, ECO 2013, ECO 2023 ..... 3 credits

### MAJOR FIELD REQUIRED COURSES - 42 credits

BCN	1214	Materials & Methods of Construction -Basic Structure.....	3 credits
BCN	1215	Materials & Methods of Construction -Finishes & Systems.....	3 credits
BCN	1272	Plans Interpretation - Residential.....	3 credits
BCN	1721	Construction Accounting & Cost Control.....	3 credits
BCN	1765	Codes & Regulations.....	3 credits
BCN	2440	Concrete Construction Methods.....	3 credits
BCN	2275	Plans Interpretation - Commercial.....	3 credits
BCN	2614	Computer Estimating Construction Costs.....	3 credits
BCT	1562	Plumbing & Electrical Systems.....	3 credits
BCT	1700	Construction Office Practices.....	3 credits
BCT	1760	Building Codes & Specifications.....	3 credits
BCT	2705	Construction Supervision.....	3 credits
BCT	2770	Construction Estimating -Foundation through Basic Structure.....	3 credits
BCT	2772	Construction Estimating- Finishes & Systems.....	3 credits

### MAJOR FIELD ELECTIVES - Select 7 credits

ACR	1008	Principles of A/C & Refrigeration.....	3 credits
BCN	1779	Construction Process & Procurement.....	1 credit
BCT	1703	Principles of Construction Management.....	3 credits
BCT	1931	Special Topics in Building Construction.....	1/2 - 3 credits
BCT	1940	Professional Practice.....	3 credits
ETD	1320	Introduction to AutoCAD.....	3 credits
ETM	1111	Energy in Building Design.....	3 credits
ETD	1842	3D Studio Viz Level I.....	3 credits

Any ETI Solar Energy related courses and BCN Sustainable Building Design courses

**BUSINESS ADMINISTRATION**  
**A0040 - 64 CREDITS**  
**ASSOCIATE IN APPLIED SCIENCE DEGREE**  
**BUSINESS MANAGEMENT CERTIFICATE – 60030**

This degree prepares students for careers as supervisors and middle managers within both profit-making and governmental sector organizations. Specialized areas include Retail Marketing, Hospitality Management, Insurance, Real Estate and Customer Service, as well as others. While providing students with a sound theoretical foundation, this degree program emphasizes the development of marketable skills in planning, organizing, interpersonal dynamics, and technology.

**GENERAL EDUCATION**

Humanities/Fine Arts	
ENC 1101 .....	3 credits
Natural Science/Mathematics	
see page 146 or (*MAT 1033).....	3 credits
Social/Behavioral Science	
ECO 2000, *ECO 2013 or ECO 2023 .....	3 credits
Humanities/Fine Arts or Natural Science/Mathematics or Social/Behavioral Science	
see pages 145 - 146 or (*HUM 1533 and *BSC 1005) .....	6 credits

**MAJOR FIELD REQUIRED COURSES - 35 credits**

APA or	1111	Introduction to Accounting.....	3 credits
*ACG	2001	Financial Accounting I.....	3 credits
CGS or	1060	College Computing.....	3 credits
*CGS or	1100	Intro to Computer Applications for Business.....	3 credits
CIS	1000	Introduction to Information Technology.....	3 credits
*ENC or	2200	Business Communications.....	3 credits
ENC	2210	Technical Communications.....	3 credits
*GEB or	1011	Introduction to Business.....	3 credits
GEB	1931	Introduction to Business Technology .....	3 credits
*MAN or	2021	Principles of Management.....	3 credits
MNA	2345	Supervision .....	3 credits
*MNA or	2100	Interpersonal Relations in Business .....	3 credits
SLS	1261	Essentials of Contemporary Leadership.....	3 credits
QMB or	1001	Mathematics of Business .....	3 credits
*ACG	2011	Financial Accounting II.....	3 credits
BUL	2241	Business Law I.....	3 credits

FIN	2001	Introduction to Finance.....	3 credits
MKA	1303	Mid-Management Seminar I.....	4 credits
MKA	1313	Mid-Management Seminar II.....	4 credits
or			
*MNA	2932	Professional Development.....	4 credits

**SUGGESTED SPECIALIZATION ELECTIVES - Select 14 credits****RETAIL MARKETING**

MKA	2041	Retail Management.....	3 credits
MKA	2104	Principles of Visual Merchandising.....	3 credits

**HOSPITALITY MANAGEMENT**

FOS	2201	Sanitation & Safety .....	3 credits
FSS	2263	Food Merchandising & Service .....	3 credits
HFT	1000	Introduction to Hospitality & Tourism.....	3 credits
HFT	2002	Management of the Hospitality Industry .....	3 credits
MKA	2323	Mid-Management Seminar & Supervised Exp. III .....	4 credits

**INSURANCE MARKETING**

RMI	1090	Customer Service Representative.....	3 credits
RMI	2500	Individual Life & Health Insurance.....	3 credits
RMI	2600	Property & Casualty Insurance.....	12 credits

**REAL ESTATE MARKETING**

REE	1040	Real Estate Principles & Practices I .....	4 credits
REE	1180	Real Estate Residential Appraisal ABI.....	6½ credits
REE	1271	Mortgage Broker License Course.....	2 credits
REE	2041	Real Estate Principles & Practices II .....	5 credits
REE	2080	Real Estate Sales Review.....	1 credit
REE	2541	Community Association Management .....	1 credit

**CUSTOMER SERVICE**

*MAR	2011	Principles of Marketing.....	3 credits
MKA	2021	Salesmanship.....	3 credits
MKA	2161	Customer Relations.....	1 credit
MKA	2323	Mid-Management Seminar III.....	4 credits
MNA	1162	Customer Service Technology .....	3 credits

**FINANCE**

FIN	1100	Personal Finance.....	3 credits
MKA	2021	Salesmanship.....	3 credits
MKA	2161	Customer Relations.....	1 credit
MNA	1162	Customer Service Technology .....	3 credits
MNA	2761	Strategic Planning .....	1 - 3 credits
MNA	2772	Human Relations in the Workplace .....	1 credit
MNA	2781	Communications in the Workplace .....	1 - 3 credits

**GOLF SHOP AND GOLF SERVICES MANAGEMENT**

GCO	2632	Golf Course Organization & Administration.....	3 credits
MKA	2041	Retail Management.....	3 credits

MKA	2161	Customer Relations.....	1 credit
MAR	2011	Principles of Marketing.....	3 credits
MKA	2323	Mid-Management Seminar III.....	4 credits

**GOLF FACILITIES ADMINISTRATION AND MANAGEMENT**

GCO	1402	Turfgrass Science.....	3 credits
GCO	1930	Special Topics in Golf Course Operations.....	1 credit
GCO	1947	Golf Course Design Concepts.....	3 credits
GCO	2632	Golf Course Organization & Administration.....	3 credits
HFT	1000	Introduction to Hospitality/Tourism .....	3 credits
PET	1121	Fundamentals of Golf.....	1 credit
PEL	1301	Introduction to Golf Management.....	3 credits
PEL	2121	Player Development .....	1 credit

**GOLF FACILITIES FOOD AND BEVERAGE MANAGEMENT**

GCO	2632	Golf Course Organization & Administration.....	3 credits
FOS	2201	Sanitation & Safety .....	3 credits
FSS	2263	Food Merchandising & Service .....	3 credits
MKA	2161	Customer Relations.....	1 credit
MKA	2323	Mid-Management Seminar III.....	4 credits

**AVIATION**

ATT	1941	Professional Development in Aviation I .....	3 - 6 credits
ATF	1941	Professional Development in Aviation II .....	2 - 9 credits

**MAJOR FIELD ELECTIVES**

*AMH	2010	American History Discovery-Reconstruction.....	3 credits
*AMH	2020	American History Reconstruction-Present.....	3 credits
BUL	2242	Business Law II.....	3 credits
*ECO	2023	Principles of Economics Micro .....	3 credits
ETI	1091	Introduction to Emerging Technologies .....	3 credits
FIN	1100	Personal Finance.....	3 credits
GEB	1350	Introduction to International Business .....	3 credits
*MAN	2300	Human Resource Management .....	3 credits
*MAR	2011	Principles of Marketing.....	3 credits
MKA	2323	Mid-Management Seminar III.....	4 credits
MNA	1821	Electronic Commerce.....	3 credits
MNA	2761	Strategic Planning.....	1 - 3 credits
MNA	2781	Communication in the Workplace.....	1 - 3 credits
RMI	1631	Accredited Claims Adjuster (ACA).....	3 credits
RMI	1930	4-40 to 2-20 Conversion Course.....	3 credits
SBM	1000	Entrepreneurship .....	3 credits

Maximum of three courses with CGS, MAN, MKA, MNA, or SLS Prefix

Any one course from the following areas: courses with FRE, GER, ASL, or SPN Prefix

Please **Note**: Classes with asterisks (\*) are required of any student who intends to use the Specialized Articulation Agreement between Indian River State College A.A.S. Degree in Business Administration and Florida Atlantic University B.A. in Social Science with a minor in Business Administration.

Students may enhance their career success by first attaining a **Certificate in Business Management (60030)** by completing 24 credits from the **Major Field Required** or



the **Major Field Electives** sections listed in the degree. Attaining the A.A.S. Degree is then simply a matter of completing the General Education required courses and the remaining 25 credits of major field and elective courses.

**BUSINESS MANAGEMENT CERTIFICATE - 60190 - 24 CREDITS  
(CAREER DEVELOPMENT PROGRAM)**

The Professional Career Program is a joint effort of the Career Development Program and the Business Management Department of IRSC. It is designed to enhance the job skills and education of women and men, in order to improve their potential for job satisfaction and promotion. Participants completing the 24 college credit hour curriculum are awarded a Technical Certificate in Business Management which may transfer toward the A.A.S. Degree in Business. Three sections of a Management Seminar permit participants to achieve 12 credits for work experience during their course of study.

CGS	1060	College Computing .....	3 credits
or			
*CGS	1100	Intro to Computer Applications for Business.....	3 credits
or			
*CGS	1000	Introduction to Computer Usage .....	3 credits
GEB	1011	Introduction to Business.....	3 credits
MKA	1303	Mid-Management Seminar & Work Experience I.....	4 credits
MKA	1313	Mid-Management Seminar & Work Experience II .....	4 credits
MKA	2323	Mid-Management Seminar & Work Experience III.....	4 credits
MNA	2100	Interpersonal Relations in Business .....	3 credits
or			
SLS	1261	Essentials of Contemporary Leadership.....	3 credits
QMB	1001	Mathematics of Business .....	3 credits

**CIVIL ENGINEERING TECHNOLOGY  
20490 - 63 CREDITS**

Civil Engineering Technology is devoted to the application of engineering principles and the implementation of technological advances in the civil engineering design process. The program provides students with the skills necessary to enter the field as a technician. After the student obtains a sound foundation in fundamentals through general and technical core courses, the individual may pursue studies in a variety of special engineering and scientific courses according to the individual’s interests and educational objectives. This degree can also be a basis for the IRSC B.A.S. in Organizational Management.

**GENERAL EDUCATION**

Humanities/Fine Arts

ENC 1101 and ENC 1102 or ENC 1107 or ENC 2210..... 6 credits

Natural Science/Mathematics

MAC 1105 or higher and PHY 1020 or higher..... 6 credits

Social/Behavioral Science

ECO 2000, ECO 2013, or ECO 2023..... 3 credits

**MAJOR FIELD REQUIRED COURSES - 27 credits**

EGS	1001	Introduction to Engineering.....	3 credits
EGS	1110	Engineering Graphics.....	3 credits
ETC	2521	Hydraulics & Hydrology.....	3 credits
ETD	1320	Introduction to AutoCAD.....	3 credits
ETD	2340	AutoCAD Level 2.....	3 credits
ETD	2551	CAD-Civil.....	3 credits
GIS	1060	Geographic Information Systems with ArcView.....	3 credits
STA	2023	Elementary Statistics I.....	3 credits
SUR	1101	Basic Surveying & Mapping.....	3 credits

**CORE SPECIALIZATION ELECTIVES – Select 21 credits****GEOGRAPHIC INFORMATION SYSTEM (GIS) CORE COURSES**

GIS	1041	Introduction to GIS & GPS Application.....	3 credits
GIS	2080	AutoCAD, ADE & MAP.....	3 credits
GIS	2350	GIS & Wetlands/Water Resources.....	3 credits
GIS	2410	GIS & Land Planning.....	3 credits
GIS	2500	GIS & Business Planning.....	3 credits

**SURVEYING CORE COURSES**

ETD	2554C	CAD Surveying.....	3 credits
SUR	2400	Legal Aspects of Land Surveying.....	3 credits
SUR	2402	Legal Descriptions.....	3 credits
SUR	2500	GPS, Electronic, & Geodetic Surveying.....	4 credits
SUR	2600	Intermediate Surveying.....	3 credits

**MAJOR FIELD ELECTIVES**

BCN	1250	Architectural Drafting Principles.....	3 credits
BCN	1272	Plans Interpretation - Residential.....	3 credits
BCN	1721	Construction Accounting & Cost Control.....	3 credits
BCT	1703	Principles of Construction Management.....	3 credits
BCT	1760	Building Codes and Specifications.....	3 credits
BCT	1940	Professional Practice.....	3 credits
ETD	1842	3D Studio Viz Level I.....	3 credits
ETD	2350C	AutoCAD Level 3.....	3 credits
DIG	2302	3D Digital Animation I.....	3 credits
DIG	2303	3D Digital Animation 2.....	3 credits
ETD	2395	CAD – Architectural.....	3 credits
ETD	2568C	CAD – Landscape.....	3 credits
OCB	1630	Marine Ecology.....	3 credits
OCE	2001	Introduction to Oceanography.....	3 credits
PCB	1030	Introduction to Ecology.....	3 credits

**COMPUTER INFORMATION TECHNOLOGY**

**20500 - 63 CREDITS**

- CISCO CERTIFIED NETWORK ASSOCIATE CERTIFICATE – 60380
- INFORMATION TECHNOLOGY SUPPORT SPECIALIST CERTIFICATE – 60390
- COMPUTER PROGRAMMING SPECIALIST CERTIFICATE – 60400
- WEB PRODUCTION CERTIFICATE – 60410
- OFFICE SPECIALIST CERTIFICATE – 60420

This degree provides excellent preparation for a career in computer information technology including but not limited to: applications specialist, programmer, network specialist, and Internet developer. The curriculum provides the conceptual and technological skills required to analyze business situations and to design and develop computer and network hardware and software.

Students are encouraged to consider an area of specialization to enhance their employability. To see recommended curriculum frameworks focused toward such specializations, refer to the semester-by-semester diagrams posted on the IRSC website under Programs and Careers and follow the links under Advanced Technology.

**GENERAL EDUCATION**

Humanities/Fine Arts

ENC 1101.....3 credits

Natural Science/Mathematics

PHI 2100 or STA 2023; and MAC 1105 or higher .....6 credits

Social/Behavioral Science

see page 146.....3 credits

Humanities/Fine Arts or Natural Science/Mathematics

or Social/Behavioral Science

see pages 145 - 146 .....3 credits

**MAJOR FIELD REQUIRED COURSES - 30 credits**

CET	1178	A+ Certification Training I.....	3 credits
CTS	1650	CCNA1: Networking Basics.....	3 credits
CGS	1700	Introduction to Operating Systems.....	3 credits
CTS	2106	Advanced Operating Systems UNIX/Linux.....	3 credits
CIS	1000	Introduction to Information Technology.....	3 credits
CIS	2321	Computer Systems Design.....	3 credits
COP	1830	Web Programming.....	3 credits
COP	2000	Introduction to Computer Programming I.....	3 credits
CTS	1104	Windows Professional.....	3 credits
COP	1332	Visual Basic Programming.....	3 credits
or			
COP	2334	C++ Programming.....	3 credits

**MAJOR FIELD ELECTIVES** - Select 18 credits with at least 12 credits from the list below and a maximum of 6 credits from any course with CEN, CGS, CIS, CTS, or COP prefixes.

ACG	2001	Financial Accounting I.....	3 credits
CET	1854	Introduction to Wireless Technology .....	3 credits
CTS	2304	Windows Network Infrastructure.....	3 credits
CTS	2651	CCNA2: Router Technology .....	3 credits
CTS	2652	CCNA3: Advanced Routers.....	3 credits
CTS	2653	CCNA4: WAN Technologies .....	3 credits
CGS	1522	Microsoft PowerPoint.....	3 credits
CGS	1540	Introduction to Access.....	3 credits
CGS	1821	Website Development.....	3 credits
CGS	1843	Introduction to E-Commerce.....	3 credits
CGS	1876	Web Animation .....	3 credits
CGS	2172	E-Commerce Design.....	3 credits
CGS	2878	Multimedia Programming .....	3 credits
CIS	2350	Computer Security Policies & Disaster Preparedness.....	3 credits
CIS	2381	Computer Forensics .....	3 credits
COP	1800	Java Programming .....	3 credits
COP	2001	Computer Programming II .....	3 credits
COP or	1332	Visual Basic Programming.....	3 credits
COP	2334	C++ Programming.....	3 credits
COP	2360	C# Programming.....	3 credits
COP	2701	Database Programming.....	3 credits
COP	2841	Advanced Web Programming CGI/Perl .....	3 credits
CTS	1155	Introduction to Help Desk Concepts .....	3 credits
CTS	1205	Excel I.....	3 credits
CTS	1225	Advanced Excel.....	3 credits
CTS	1330	Implementation & Supporting MS-Exchange .....	3 credits
CTS	1334	Windows Server.....	3 credits
CTS	2303	Planning Implementing, and Maintaining a Windows Server Active Directory Infrastructure.....	3 credits
CTS	2306	Planning and Maintaining a Windows Server Network.....	3 credits
CTS	2310	Network Security .....	3 credits
CTS	2437	Administering MS SQL Server.....	3 credits
ETI	1091	Introduction to Emerging Technologies .....	3 credits
GRA or	1112	QuarkXpress .....	3 credits
OST	2821	Desktop Publishing .....	3 credits
OST	1713	Microsoft Word .....	3 credits
OST	2601	Transcription Technologies .....	3 credits

**CISCO CERTIFIED NETWORK ASSOCIATE CERTIFICATE - 60380 - 12 CREDITS****MAJOR FIELD REQUIRED COURSES - 12 credits**

CTS	1650	CCNA1: Networking Basics .....	3 credits
CTS	2651	CCNA2: Router Technology .....	3 credits
CTS	2652	CCNA3: Advanced Routers.....	3 credits
CTS	2653	CCNA4: WAN Technologies .....	3 credits

**INFORMATION TECHNOLOGY SUPPORT SPECIALIST CERTIFICATE - 60390 - 18 CREDITS****MAJOR FIELD ELECTIVES - Select 18 credits**

CET	1178	A+ Certification Training I.....	3 credits
CET	1179C	A+ Certification Training II.....	3 credits
CGS	1100	Computer Applications for Business .....	3 credits
CTS	1650	CCNA1: Networking Basics .....	3 credits
CTS	1104	Windows Professional .....	3 credits
CTS	1334	Windows Server.....	3 credits
CTS	1155	Introduction to Help Desk Concepts .....	3 credits

**COMPUTER PROGRAMMING SPECIALIST CERTIFICATE - 60400 - 18 CREDITS****MAJOR FIELD ELECTIVES - Select 18 credits**

COP	1332	Visual Basic Programming.....	3 credits
COP	1800	Java Programming.....	3 credits
COP	1830	Web Programming.....	3 credits
COP	2000	Introduction to Computer Programming I .....	3 credits
COP	2001	Computer Programming II.....	3 credits
COP	2334	C++ Programming.....	3 credits
COP	2360	C# Programming.....	3 credits
COP	2701	Database Programming.....	3 credits
COP	2841	Advanced Web Programming CGS/Perl.....	3 credits
CTS	2245	Visual Basic for Applications .....	3 credits

**WEB PRODUCTION CERTIFICATE - 60410 - 15 CREDITS****MAJOR FIELD ELECTIVES - Select 15 credits**

CGS	1821	Website Development .....	3 credits
CGS	1843	Introduction to E-Commerce.....	3 credits
CGS	1876	Web Animation .....	3 credits
CGS	2172	E-Commerce Design.....	3 credits
CGS	2878	Multimedia Programming .....	3 credits
COP	1800	Java Programming.....	3 credits
COP	1830	Web Programming.....	3 credits
COP	2000	Introduction to Computer Programming I .....	3 credits
COP	2841	Advanced Web Programming CGS/Perl.....	3 credits

**OFFICE SPECIALIST CERTIFICATE - 60420 - 18 CREDITS**

**MAJOR FIELD REQUIRED COURSES - 18 credits**

OST	1713	Microsoft Word .....	3 credits
CTS	1205	Excel 1.....	3 credits
CGS	1540	Introduction to Access.....	3 credits
CGS	1522	Microsoft PowerPoint .....	3 credits
ENC	2200	Business Communications .....	3 credits
or			
ENC	2210	Technical Communications.....	3 credits
APA	1111	Introduction to Accounting.....	3 credits

**CRIMINAL JUSTICE TECHNOLOGY  
20520 - 64 CREDITS**

This degree offers the student a broad background in the history, philosophy, organization, management, and operation of the criminal justice system. In law enforcement, an emphasis is placed on the role of the police in the process of social control and in the legal and philosophical issues involved. In corrections, emphasis is placed on the supervision, protection, care, custody, and control of offenders. Opportunities for employment are available in law enforcement agencies, correctional institutions, juvenile courts, social service agencies, crime laboratories, and security agencies.

**GENERAL EDUCATION**

Humanities/Fine Arts			
	ENC 1101, ENC 1102.....		6 credits
Natural Science/Mathematics			
	see page 146.....		3 credits
Social/Behavioral Science			
	see page 111 in A.A. section of catalog.....		3 credits
Humanities/Fine Arts or Natural Science/Mathematics or Social/Behavioral Science			
	see pages 111 - 112 in A.A. section of catalog.....		6 credits

**MAJOR FIELD REQUIRED COURSES - 18 credits**

CCJ	2020	Introduction to Criminal Justice.....	3 credits
CJC	2000	Introduction to Corrections.....	3 credits
CJL	2500	Introduction to the Courts.....	3 credits
CJL	2062	Constitutional Law.....	3 credits
CJL	2100	Criminal Law .....	3 credits
CCJ	1600	Deviant Behavior .....	3 credits

**MAJOR FIELD ELECTIVES - Select 28 credits**

CGS	1100	Intro to Computer Applications-Business .....	3 credits
or			
CGS	1060	College Computing .....	3 credits
ECO	2000	Introduction to Economics.....	3 credits
or			

ECO	2013	Principles of Economics Macro .....	3 credits
CJC	2162	Probation & Parole .....	3 credits
CJD	1940	Internship in Criminal Justice .....	3 - 4 credits
CJE	1000	Introduction to Law Enforcement .....	3 credits
CJE	1002	Police Procedures.....	3 credits
CJE	1325	Foundations of Law Enforcement Leadership.....	3 credits
CJE	2300	Police Organization and Administration.....	3 credits
CJE	2580	Investigative Interviews.....	3 credits
CJE	2600	Criminal Investigation .....	3 credits
CJE	2640	Introduction to Criminalistics.....	3 credits
CJJ	2002	The Juvenile & the Law .....	3 credits
CJL	1000	Fundamentals of Law.....	3 credits
CJL	2130	Rules of Evidence.....	3 credits
CJL	2403	Criminal Procedure.....	3 credits
DSC	1002	Terrorism & U.S. Security .....	3 credits
ECO	2023	Principles of Economics Micro .....	3 credits
POS	1041	American Government .....	3 credits
SYG	2010	Social Problems.....	3 credits

**CRIMINAL JUSTICE TECHNOLOGY**  
**A0100 - 64 CREDITS**  
**ASSOCIATE IN APPLIED SCIENCE DEGREE**

This program is designed to enhance the practical skills of the criminal justice professional by offering the student a broad background in the history, philosophy, organization, management, and operation of the criminal justice system. In law enforcement, an emphasis is placed on the role of the police in the process of social control and in the legal and philosophical issues involved. In corrections, emphasis is placed on the supervision, protection, care, custody, and control of offenders. Opportunities for employment are available in law enforcement agencies, correctional institutions, juvenile courts, social service agencies, crime laboratories, and security agencies.

**GENERAL EDUCATION**

Humanities/Fine Arts	
ENC 1101 .....	3 credits
Natural Science/Mathematics	
see page 146.....	3 credits
Social/Behavioral Science	
see page 146.....	3 credits
Humanities/Fine Arts or Natural Science/Mathematics or Social/Behavioral Science	
see pages 145 - 146 .....	6 credits

**MAJOR FIELD REQUIRED COURSES - 18 credits**

CCJ	2020	Introduction to Criminal Justice.....	3 credits
CJC	2000	Introduction to Corrections.....	3 credits

CJL	2500	Introduction to the Courts.....	3 credits
CJL	2062	Constitutional Law.....	3 credits
CJL	2100	Criminal Law.....	3 credits
CCJ	1600	Deviant Behavior.....	3 credits

**\*MAJOR FIELD ELECTIVES - Select 31 credits**

Select any Criminal Justice college credit course with the following prefixes: CJD, CCJ, CJT, CJL, CJE, CJC, CJJ, CJK

or

any of the other following suggested courses:

CGS	1100	Intro to Computer Applications-Business .....	3 credits
or			
CGS	1060	College Computing .....	3 credits
ECO	2000	Introduction to Economics.....	3 credits
or			
ECO	2013	Principles of Economics Macro .....	3 credits
DSC	1002	Terrorism & U.S. Security.....	3 credits
DSC	1860	Introduction to Public Safety Careers .....	3 credits
DSC	1930	Current Topics in Public Safety.....	3 credits
DSC	1557	Florida Personal Radiation Detector.....	1 credit
DSC	1558	Detection Equipment for Law Enforcement.....	1 credit
ECO	2023	Principles of Economics Micro .....	3 credits
POS	1041	American Government .....	3 credits
SYG	2010	Social Problems.....	3 credits

Certain Criminal Justice courses have a prerequisite of Law Enforcement, Corrections, or Correctional Probation Florida Certification. For additional information, contact (772) 462-7676.

**SUGGESTED ELECTIVES FOR SPECIALIZED TRAINING FOR PRIVATE INVESTIGATORS**

CJE	1330	Ethics for the Justice System.....	3 credits
CJD	1940	Internship in Criminal Justice .....	3 - 4 credits
CJE	2580	Investigative Interviews.....	3 credits
CJE	2635	Injury & Death Investigations .....	3 credits
CJL	1000	Fundamentals of Law.....	3 credits

\*Certified Officers may substitute a maximum of 20 credits of Basic or Advanced Training Courses for Major Field Electives. Contact the Criminal Justice Department for details regarding articulation of Academy training to the A.A.S. Degree.

**DENTAL ASSISTING TECHNOLOGY AND MANAGEMENT**

**20750 - 70 CREDITS (SELECTIVE ADMISSION)**

**DENTAL ASSISTING TECHNOLOGY AND MANAGEMENT**

**APPLIED TECHNOLOGY DIPLOMA - B0050 (SELECTIVE ADMISSION)**

This program prepares graduates for a professional career as a Dental Assistant as well as related dental fields such as marketing, management, and education. Students receive a well rounded general education along with online instruction and traditional labs with clinical experience specific to Dental Assisting Technology and Management.



**GENERAL EDUCATION** - \*may be taken prior to acceptance into the program or must be completed while enrolled in the program.

- \*Humanities/Fine Arts  
     ENC 1101 ..... 3 credits
- \*Natural Science/Mathematics  
     see page 146 ..... 3 credits
- \*Social/Behavioral Science  
     see page 146 ..... 3 credits
- \*Humanities/Fine Arts or Natural Science/Mathematics  
 or Social/Behavioral Science  
     see pages 145 - 146 ..... 6 credits

**MAJOR FIELD REQUIRED COURSES - 50 credits**

- DEA 1028 Preclinical Orientation ..... 6 credits
- DEA 1028L Preclinical Orientation Lab ..... 2 credits
- DES 1800 Introduction to Clinical Procedures ..... 2 credits
- DES 1800L Introduction to Clinical Procedures Lab ..... 2 credits
- DES 1100 Elements of Dental Materials ..... 2 credits
- DES 1100L Elements of Dental Materials Lab ..... 1 credit
- DES 1840 Preventive Dentistry ..... 1 credit
- DES 1840L Preventive Dentistry Lab ..... 1 credit
- DES 1200L Dental Radiography Lab ..... 1 credit
- DES 1020 Head Neck and Dental Anatomy ..... 3 credits
- DEA 1805 Clinical Practice I ..... 2 credits
- DEA 1805L Clinical Practice I Lab ..... 4 credits
- DES 1832 Expanded Functions I ..... 2 credits
- DES 1832L Expanded Functions I Lab ..... 1 credit
- DES 1833 Expanded Functions II ..... 2 credits
- DES 1833L Expanded Functions II Lab ..... 1 credit
- DES 2502 Dental Office Management ..... 1 credit
- DES 2502L Dental Office Management Lab ..... 1 credit
- DEA 1136 Related Dental Theory ..... 4 credits
- DEA 1931 Orthodontics Expanded Functions ..... 1 credit
- DES 1051 Nitrous Oxide Monitoring ..... 1 credit
- DES 1600 Office Emergencies ..... 2 credits
- DES 1200 Dental Radiography ..... 2 credits
- DEA 1855 Clinical Practice II ..... 1 credit
- DEA 1855L Clinical Practice II Lab ..... 4 credits

**SPECIALIZATION ELECTIVES\*\* - 5 credits**

**EDUCATIONAL METHODOLOGIES AND STRATEGIES**

- EDF 1081 Introduction to Multicultural Education ..... ½ - 3 credits
- SLS 1101 Student Success ..... 3 credits
- EME 2040 Introduction to Technology for Educators ..... 3 credits
- EDF 2085 Introduction to Diversity & Exceptionalities for Educators ... 3 credits
- HSC 1242 Instructing Health Professionals ..... 1 - 3 credits
- CGS 1060 College Computing ..... 3 credits

or

CGS 1100 Introduction to Computer Application for Business ..... 3 credits

**MARKETING**

GEB 1011 Introduction to Business.....3 credits

ECO 2013 Principles of Economics (Macro).....3 credits

ECO 2023 Principles of Economics (Micro).....3 credits

MAR 2011 Principles of Marketing.....3 credits

MKA 2021 Salesmanship.....3 credits

MKA 1303 Mid-Management Seminar I.....4 credits

CGS 1060 College Computing.....3 credits

or

CGS 1100 Introduction to Computer Application for Business ..... 3 credits

**PRACTICE MANAGEMENT**

APA 1111 Introduction to Accounting.....3 credits

MAN 2021 Principles of Management.....3 credits

MAN 2300 Human Resource Management .....3 credits

MKA 2161 Customer Relations.....1 credit

MNA 2100 Interpersonal Relations in Business .....3 credits

MNA 2345 Supervision.....3 credits

HSC 2632 Overview of Health Care Delivery .....4 credits

HSA 2182 Health Services Management Concepts .....4 credits

CGS 1060 College Computing.....3 credits

or

CGS 1100 Introduction to Computer Application for Business .....3 credits

All core curriculum courses require a grade of “C” or higher.

\*\*Students may choose to specialize in an area for career opportunities by taking five credits from one of the **Specialization Electives** listed above and on the previous page.

**DENTAL ASSISTING TECHNOLOGY AND MANAGEMENT**

**APPLIED TECHNOLOGY DIPLOMA B0050 - 50 CREDITS (SELECTIVE ADMISSION)**

Students may enhance their career success by first completing the 50 credit hour Applied Technology Diploma which is designed to prepare students for a career as an Expanded Functions Dental Assistant. Attaining the A.S. Degree is then simply a matter of completing the General Education required courses and specialty elective courses.

**MAJOR FIELD REQUIRED COURSES - 50 credits**

DEA 1028 Preclinical Orientation.....6 credits

DEA 1028L Preclinical Orientation Lab .....2 credits

DES 1800 Introduction to Clinical Procedures.....2 credits

DES 1800L Introduction to Clinical Procedures Lab.....2 credits

DES 1100 Elements of Dental Materials.....2 credits

DES 1100L Elements of Dental Materials Lab.....1 credit

DES 1840 Preventive Dentistry.....1 credit

DES 1840L Preventive Dentistry Lab.....1 credit

DES 1200L Dental Radiography Lab .....1 credit

DES 1020 Head Neck and Dental Anatomy .....3 credits

DEA	1805	Clinical Practice I.....	2 credits
DEA	1805L	Clinical Practice I Lab.....	4 credits
DES	1832	Expanded Functions I.....	2 credits
DES	1832L	Expanded Functions I Lab.....	1 credit
DES	1833	Expanded Functions II.....	2 credits
DES	1833L	Expanded Functions II Lab.....	1 credit
DES	2502	Dental Office Management.....	1 credit
DES	2502L	Dental Office Management Lab.....	1 credit
DEA	1136	Related Dental Theory.....	4 credits
DEA	1931	Orthodontics Expanded Functions.....	1 credit
DES	1051	Nitrous Oxide Monitoring.....	1 credit
DES	1600	Office Emergencies.....	2 credits
DES	1200	Dental Radiography.....	2 credits
DEA	1855	Clinical Practice II.....	1 credit
DEA	1855L	Clinical Practice II Lab.....	4 credits

All core curriculum courses require a grade of “C” or higher.

**DENTAL HYGIENE**  
**20530 - 88 CREDITS (SELECTIVE ADMISSION)**

IRSC’s Dental Hygiene Program prepares students to take the Dental Hygiene National and State Licensure Board examinations. Students accepted into the program receive a well-rounded General Education with a strong emphasis on dental hygiene skills.

Dental Hygiene students must also complete the following General Education and Major Field Required Courses:

**GENERAL EDUCATION** – \*may be taken prior to acceptance into the program or must be completed while enrolled in the program.

- \*Humanities/Fine Arts  
 ENC 1101, SPC 1608..... 6 credits
- \*Natural Science/Mathematics  
 CHM 1020, BSC 2093, BSC 2093L, BSC 2094,  
 BSC 2094L, MCB 2010, MCB 2010L..... 15 credits
- \*Social/Behavioral Science  
 PSY 2012, SYG 2000..... 6 credits

**MAJOR FIELD REQUIRED COURSES - 61 credits**

DEH	1003	Pre-Clinical Dental Hygiene.....	1 credit
DEH	1003L	Pre-Clinical Dental Hygiene Lab.....	2 credits
DEH	1130	Oral Embryology & Histology.....	2 credits
DEH	1300	Pharmacology.....	2 credits
DEH	1800	Clinical Dental Hygiene I.....	2 credits
DEH	1800L	Clinical Dental Hygiene I Lab.....	3 credits
DEH	1802	Clinical Dental Hygiene II.....	2 credits
DEH	1802L	Clinical Dental Hygiene II Lab.....	2 credits
DEH	2602	Periodontology.....	2 credits
DEH	2602L	Periodontology Lab.....	1 credit
DEH	2702	Community Dental Health.....	2 credits

DEH	2702L	Community Dental Health Lab .....	1 credit
DEH	2804	Clinical Dental Hygiene III .....	2 credits
DEH	2804L	Clinical Dental Hygiene III Lab.....	4 credits
DEH	2806	Clinical Dental Hygiene IV.....	2 credits
DEH	2806L	Clinical Dental Hygiene IV Lab.....	5 credits
DEH	2400	General Oral Pathology .....	2 credits
DES	1020	Head, Neck & Dental Anatomy.....	3 credits
DES	1100	Elements of Dental Materials.....	2 credits
DES	1100L	Elements of Dental Materials Lab.....	1 credit
DES	1600	Health Office Emergencies .....	2 credits
DES	1800	Introduction to Clinical Procedures.....	2 credits
DES	1800L	Introduction to Clinical Procedures Lab.....	1 credit
DES	1840	Preventive Dentistry.....	1 credit
DES	1840L	Preventive Dentistry Lab.....	1 credit
DES	2530C	Expanded Functions for Dental Hygienists.....	2 credits
DES	1200	Dental Radiography.....	2 credits
DES	1200L	Dental Radiography Lab .....	1 credit
DES	2502	Dental Office Management.....	1 credit
DES	1053	Nitrous Oxide Monitoring.....	1 credit
DES	2051	Pain Control & Anesthesia .....	1 credit
HUN	1201	Nutrition .....	3 credits

All core curriculum and natural science courses require a grade of "C" or higher. Anatomy and Physiology I and corequisite lab must be completed by the end of the Fall semester, first year. Anatomy and Physiology II and corequisite lab must be completed by the end of the Spring semester, first year.

## DENTAL LABORATORY TECHNOLOGY AND MANAGEMENT

**A0050 - 68 CREDITS (SELECTIVE ADMISSION)**

### ASSOCIATE IN APPLIED SCIENCE DEGREE

The Dental Lab Technology (DLT) Program leads to eligibility to take the National Certification Exam for Dental Lab Technologists. Students accepted into the program receive a strong General Education with an emphasis on dental lab skills which enables them to construct dentures, crowns, bridges, and orthodontic appliances from dentists' prescriptions. The program consists of one-third classroom instruction and two-thirds "hands-on" lab practice.

**GENERAL EDUCATION** - \*may be taken prior to acceptance into the program or must be completed while enrolled in the program.

\*Humanities/Fine Arts

ENC 1101..... 3 credits

\*Natural Science/Mathematics

CHM 1020 or higher, PHY 1020 or higher..... 6 credits

\*Social/Behavioral Science

see page 146..... 3 credits

\*Humanities/Fine Arts or Natural Science/Mathematics

or Social/Behavioral Science

see pages 145 - 146..... 3 credits

**MAJOR FIELD REQUIRED COURSES - 53 credits**

DTE	1050	Dental Materials I.....	2 credits
DTE	1010	Oral Anatomy .....	2 credits
DTE	1020	Tooth Physiology & Anatomy Theory.....	2 credits
DTE	1020L	Tooth Physiology & Anatomy Lab.....	3 credits
DTE	1103	Complete Denture Theory.....	2 credits
DTE	1103L	Complete Denture Lab.....	4 credits
DTE	1132	Orthodontic & Pedodontic Theory .....	1 credit
DTE	1132L	Orthodontic & Pedodontic Lab .....	2 credits
DTE	2030	Occlusal Topography Theory.....	1 credit
DTE	2030L	Occlusal Topography Lab.....	2 credits
DTE	2107	Partial Denture Theory.....	2 credits
DTE	2107L	Partial Denture Lab.....	4 credits
DTE	2141	Ceramic Theory.....	2 credits
DTE	2141L	Ceramic Lab.....	4 credits
DTE	2150	Crown & Bridge Theory .....	2 credits
DTE	2150L	Crown & Bridge Lab.....	4 credits
DTE	2151	Advanced Prosthodontics Theory.....	2 credits
DTE	2151L	Advanced Prosthodontics Lab .....	4 credits
DTE	2180	Dental Laboratory Operations .....	2 credits
DTE	2191	Assimilation of Dental Technology .....	2 credits
DTE	2200	Ethics & Jurisprudence .....	1 credit
SBM	1000	Entrepreneurship .....	3 credits

**DIGITAL MEDIA TECHNOLOGY**

**20760 - 64 CREDITS**

**DIGITAL MEDIA SUPPORT CERTIFICATE – 60360**

**DIGITAL MEDIA PRODUCTION CERTIFICATE – 60370**

This program prepares students for careers in the rapidly emerging digital media, modeling, simulation, and gaming industries. Specializations within this degree include computer graphic design, animation, modeling, and entry-level game development. This degree requires the integration of art principles, design concepts, communication skills, and computer fluency to enter the field of digital media technology as a technical specialist. Students obtain a solid foundation in digital media through a core of required courses and continue their education and training in their preferred area of specialization. This degree can also be a basis for the IRSC B.A.S. in Digital Media.

**GENERAL EDUCATION**

Humanities/Fine Arts

ENC 1101 and ENC 1102, SPC 1608, or PHI 1801..... 6 credits

Natural Science/Mathematics

PHY 1020, MAC 1105 .....

Social/Behavioral Science

see page 146 .....

**MAJOR FIELD REQUIRED COURSES - 36 credits**

ART	1201C	Color and Design I .....	3 credits
DIG	1000	Digital Media Principles .....	3 credits
DIG	1115	Digital Imaging Fundamentals.....	3 credits
DIG	2030	Digital Video Fundamentals.....	3 credits
DIG	2251	Digital Audio I.....	3 credits
DIG	2430	Digital Story Development for Film and Gaming .....	3 credits
DIG	2581	Digital Portfolio Development.....	3 credits
DIG	2302	3D Digital Animation I .....	3 credits
DIG	2303	3D Digital Animation 2.....	3 credits
GRA	1129	Visualization Basics .....	3 credits
GRA	2161	2D Digital Animation .....	3 credits
GRA	2160	Adobe Animation I - Live Motion.....	3 credits
or			
CGS	1876	Web Animation .....	3 credits

**SUGGESTED SPECIALIZATION ELECTIVES - Select 13 credits****MODELING AND SIMULATION**

DIG	2341	Introduction to Motion Graphics.....	3 credits
DIG	2500	Fundamentals of Interactive Design .....	3 credits
DIG	2370	Advanced 3D Animation - Character/Rigging.....	3 credits
DIG	2322	Modeling for Real Time Systems .....	3 credits
ETD	2355	3D Modeling and Surface Generation.....	3 credits

**GAMING AND VIDEO PRODUCTION**

CGS	2878	Multimedia Programming .....	3 credits
COP	1800	Java Programming.....	3 credits
COP	2000	Introduction to Computer Programming .....	3 credits
COP	2360	C# Programming.....	3 credits
GRA	2714	Digital Video Production 2 .....	3 credits

**MAJOR FIELD ELECTIVES**

ART	1203C	Color and Design 2.....	3 credits
ART	1300C	Drawing I .....	3 credits
CGS	1821	Website Development.....	3 credits
DIG	1930	Special Topics in Digital Media.....	½ - 3 credits
GRA	1112	QuarkXpress .....	3 credits
GRA	1151	Adobe Illustrator .....	3 credits
PGY	1801	Introduction to Digital Photography.....	3 credits
DIG	2292	Digital Video Post Production .....	3 credits
DIG	2116	Photoshop Level 2.....	3 credits
GRA	2152	Adobe Illustrator 2.....	3 credits
GRA	1206	Typography .....	3 credits
FIL	1030	History of Film.....	3 credits
TPA	1200	Beginning Stagecraft .....	3 credits

Up to two courses with PGY prefix

**DIGITAL MEDIA SUPPORT CERTIFICATE – 60360 - 15 CREDITS**

The Digital Media Support Certificate offers basic preparation for a career as a Digital Media Support Technician or developer. Students are trained in video creation and 2D/3D animation production techniques as well as basic graphic design, photo enhancement, illustrations, layout, and non-linear video editing techniques.

**MAJOR FIELD REQUIRED COURSES – 15 credits**

DIG	1115	Digital Imaging Fundamentals.....	3 credits
DIG	2030	Digital Video Fundamentals.....	3 credits
GRA	2161	2D Digital Animation .....	3 credits
GRA	2714	Digital Video Production 2 .....	3 credits
GRA	2160	Abode Animation I - Live Motion.....	3 credits
or			
CGS	1876	Web Animation .....	3 credits

**DIGITAL MEDIA PRODUCTION CERTIFICATE – 60370 - 24 CREDITS**

The Digital Media Production Certificate offers advanced preparation for a career as a Digital Media Production Creator or Web Production Assistant. Students are trained in the advanced operations of digital media creation, Web content design, and animation development as well as complex graphic design, photo enhancement, illustrations, layout, and non-linear video editing and production techniques.

**MAJOR FIELD REQUIRED COURSES – 24 credits**

DIG	1115	Digital Imaging Fundamentals.....	3 credits
GRA	1151	Adobe Illustrator.....	3 credits
DIG	2302	3D Digital Animation I .....	3 credits
CGS	1821	Website Development.....	3 credits
GRA	2161	2D Digital Animation .....	3 credits
DIG	2030	Digital Video Fundamentals.....	3 credits
GRA	2714	Digital Video Production 2 .....	3 credits
GRA	2160	Adobe Animation I - Live Motion.....	3 credits
or			
CGS	1876	Web Animation .....	3 credits

**DRAFTING AND DESIGN TECHNOLOGY**

**20540 - 62 CREDITS**

**AUTOCAD FOUNDATIONS CERTIFICATE – 60320**

**DRAFTING CERTIFICATE – 60330**

This program prepares students for a career as a professional CAD technician. The disciplines covered include architecture, civil engineering, surveying, mechanical engineering, and landscape design, with emphasis in the latest technologies used for rendering, architectural “walk-through,” three-dimensional computer animation, and solid and surface modeling. Surveying, architectural, civil and mechanical engineering firms, as well as county offices and manufacturing plants are among the potential employers of this program’s graduates. This degree can also be a basis for the IRSC B.A.S. in Organizational Management.

**GENERAL EDUCATION****\*Humanities/Fine Arts**

ENC 1101 and ENC 1102 or ENC 1107 or ENC 2210.....6 credits

**\*Natural Science/Mathematics**

PHY 1020 and MAC 1105.....6 credits

**\*Social/Behavioral Science**

ECO 2000, ECO 2013, or ECO 2023.....3 credits

**MAJOR FIELD REQUIRED COURSES - 15 credits**

DIG 1115 Digital Imaging Fundamentals.....3 credits

EGS 1001 Introduction to Engineering.....3 credits

ETD 1320 Introduction to AutoCAD.....3 credits

ETD 1842 3D Studio VIZ Level I.....3 credits

ETD 2340 AutoCAD Level 2.....3 credits

**SUGGESTED SPECIALIZATION ELECTIVES - Select 32 credits****ARCHITECTURAL CORE COURSES**

BCN 1250 Architectural Drafting Principles.....3 credits

BCN 1272 Plans Interpretation - Residential.....3 credits

BCN 2275 Plans Interpretation - Commercial.....3 credits

BCT 1703 Principles of Construction Management.....3 credits

BCT 1760 Building Codes &amp; Specifications.....3 credits

ETD 2395 CAD – Architectural.....3 credits

**CIVIL ENGINEERING CORE COURSES**

EGS 1110 Engineering Graphics.....3 credits

ETD 2551 CAD – Civil.....3 credits

ETD 2554C CAD – Surveying.....3 credits

ETD 2568C CAD – Landscape.....3 credits

GIS 1060 Geographic Information Systems with ArcView.....3 credits

GIS 2080 AutoCAD, ADE, &amp; MAP.....3 credits

**MECHANICAL ENGINEERING/MANUFACTURING CORE COURSES**

EGS 1110 Engineering Graphics.....3 credits

ETD 2355 3D Modeling &amp; Surface Generation.....3 credits

ETD 2365 CAD – Mechanical.....3 credits

ETD 2371 Introduction to Prototyping.....3 credits

ETI 2110 Introduction to Quality Control.....3 credits

ETI 2414 Introduction to CNC Machining.....3 credits

**MAJOR FIELD ELECTIVES**

BCN 2251 Architectural Drafting-Residential.....3 credits

BCN 2614 Computer Estimating Construction Costs.....3 credits

BCT 1700 Construction Office Practices.....3 credits

BCT 1940 Professional Practice.....3 credits

BCT 2770 Construction Est.-Foundations through Basic Structure.....3 credits

BCT 2772 Construction Est.-Finishes &amp; Systems.....3 credits

ETD 1315 Orientation to AutoCAD.....3 credits



ETD	1316	Orientation to AutoCAD Applications.....	½ credit
PGY	1801	Introduction to Digital Photography.....	1 credit
ETD	2350C	AutoCAD Level 3 .....	3 credits
DIG	2302	3D Digital Animation I .....	3 credits
DIG	2303	3D Digital Animation II .....	3 credits
ETD	2930	Special Topics in Drafting .....	1 - 3 credits
ETM	1111	Energy in Building Design .....	3 credits

**AUTOCAD FOUNDATIONS CERTIFICATE – 60320 - 15 CREDITS**

The AutoCAD Foundations Certificate offers excellent preparation for a career as an entry-level CAD technician. Students are trained in the basic operations in AutoCAD’s two major disciplines as well as technical drawing, dimensioning, and sketching techniques.

**MAJOR FIELD REQUIRED COURSES – 15 credits**

BCN	1250	Architectural Drafting Principles.....	3 credits
or			
EGS	1110	Engineering Graphics.....	3 credits
ETD	1320	Introduction to AutoCAD.....	3 credits
ETD	2340	AutoCAD Level 2 .....	3 credits
ETD	2365	CAD – Mechanical.....	3 credits
ETD	2395	CAD – Architectural .....	3 credits
or			
ETD	2551	CAD – Civil .....	3 credits

**DRAFTING CERTIFICATE – 60330 - 24 CREDITS**

The Drafting Certificate offers outstanding preparation for a career as a superior CAD technician. Students are trained in the advanced operations in AutoCAD’s three major disciplines as well as technical drawing, dimensioning, sketching, and advanced 3D modeling techniques.

**MAJOR FIELD REQUIRED COURSES – 24 credits**

BCN	1250	Architectural Drafting Principles.....	3 credits
EGS	1110	Engineering Graphics.....	3 credits
ETD	1320	Introduction to AutoCAD.....	3 credits
ETD	2340	AutoCAD Level 2 .....	3 credits
ETD	2355	3D Modeling & Surface Generation.....	3 credits
ETD	2365	CAD – Mechanical.....	3 credits
ETD	2395	CAD – Architectural .....	3 credits
ETD	2551	CAD – Civil .....	3 credits

**EARLY CHILDHOOD EDUCATION**

**20480 - 63 CREDITS**

**CHILD DEVELOPMENT & EARLY INTERVENTION CERTIFICATE - 60040**

This program is designed for students pursuing a career in the child care industry. Career goals include teaching in the private sector or teacher’s aide in public and private programs.

**GENERAL EDUCATION**

## Humanities/Fine Arts

ENC 1101 ..... 3 credits

## Natural Science/Mathematics

see page 146 (\*BSC 1005)..... 3 credits

## Social/Behavioral Science

see page 146 (\*PSY 2012)..... 3 credits

Humanities/Fine Arts or Natural Science/Mathematics  
or Social/Behavioral Science

see pages 145 - 146 (\*SYG 2000, \*PHI 1103) ..... 6 credits

**MAJOR FIELD REQUIRED COURSES - 33 credits**

CHD 1104 Introduction to Early Childhood Education ..... 2 credits

CHD 1220 Introduction to Child Development ..... 3 credits

CHD 1332 Creative Experiences for Children ..... 3 credits

CHD 2800 Administering a Child Care Center ..... 3 credits

EDF 1021 Social Elements in Early Childhood Education..... 3 credits

EEC 1202 Principles of Early Childhood Curriculum ..... 3 credits

EEC 1601 Observing &amp; Recording Behavior..... 3 credits

EEC 1946 Early Childhood Practicum I..... 4 credits

EEX 1013 Special Needs in Early Childhood Education..... 3 credits

HUN 1410 Basic Childhood Nutrition..... 3 credits

SLS 1421 Personal &amp; Career Development..... 3 credits

**MAJOR FIELD ELECTIVES - Select 15 credits**

\*CGS 1060 College Computing ..... 3 credits

CHD 2334 Early Childhood Language Arts &amp; Reading..... 3 credits

EEC 1520 Early Childhood Organizational Leadership &amp; Mgmt. .... 3 credits

EEC 1947 Early Childhood Practicum II..... 4 credits

EEC 2948 Early Childhood Practicum III..... 4 credits

EEC 2949 Early Childhood Practicum IV ..... 4 credits

\*ENC 1102 English Composition II..... 3 credits

ETI 1932 Introduction to Technology..... 3 credits

GEB 1931 Introduction to Business Technology ..... 3 credits

\*MGF 2106 Mathematics for Liberals Arts, or higher ..... 3 credits

\*PPE 2001 Person &amp; Personality Development..... 3 credits

\*SYG 1430 Family Relations ..... 3 credits

**Please Note:** Classes with asterisks (\*) are required of any student who intends to use the Specialized Articulation Agreement between Indian River State College A.S. Degree in Early Childhood Education and Florida Atlantic University B.A. in Social Work.

Students may enhance their career success by first attaining a **Certificate in Child Development and Early Intervention (60040)** by completing 36 credits from the **Major Field Required** and **Major Field Electives** sections above. Attaining the A.S. Degree is then simply a matter of completing the General Education required courses and the remaining 12 credits of major field and elective courses.

**ELECTRICAL POWER TECHNOLOGY  
20850 - 68 CREDITS (SELECTIVE ADMISSION)**

The nuclear power industry is experiencing a period of unprecedented need for power plant technicians both nationally and within the state of Florida. The Nuclear Regulatory Commission (NRC) estimates that more than 41,000 new technicians will be needed over the next 20 years and the starting salaries for these technicians are above the national average throughout the country. The Electrical Power Technology program has the following options: instrumentation and control, electrical, mechanical, and radiation protection. In addition to an admissions application, a series of tests prescribed by our industrial partner, Florida Power and Light is required Attendance at an Information Sessions is strongly encouraged.

**GENERAL EDUCATION**

Humanities/Fine Arts

ENC 1101 .....3 credits

Natural Science/Mathematics

MAC 1105, PHY 1020 .....6 credits

Social/Behavioral Science

see page 146 (ECO 2000 recommended).....3 credits

Humanities/Fine Arts or Natural Science/Mathematics

or Social/Behavioral Science

see pages 145 - 146 (POS 1041 recommended) .....3 credits

**MAJOR FIELD REQUIRED COURSES - 30 credits**

EET	1724C	Electronic Design Software Tools.....	3 credits
EET	1215C	Introduction to Electronics.....	3 credits
EET	1015C	DC Circuits .....	3 credits
EET	1025C	AC Circuits.....	3 credits
MTB	1322	Technical Mathematics II .....	3 credits
EET	1560	Power Plant Systems.....	3 credits
EET	1580	Power Plant Science.....	3 credits
EST	1572	Power Plant Fundamentals.....	3 credits
ETI	1000	Industrial Plant Tools & Equipment.....	3 credits
ETI	1701	Industrial Safety .....	3 credits

**SUGGESTED SPECIALIZATION ELECTIVES - Select 23 credits**

**INSTRUMENTATION AND CONTROL (I & C)**

EST	2520	Process Measurement Fundamentals.....	3 credits
EST	2530	Process Control Technology.....	3 credits
EST	2700	Fluid & Pneumatic Instrumentation.....	3 credits
EET	2141C	Electronic Devices I.....	3 credits
ETG	2941	Professional Internship .....	2 credits

**ELECTRICAL**

EET	2515C	Motors and Generators.....	3 credits
EET	2527C	Motor Starter, Controllers & Breakers .....	3 credits
EET	2547C	Transformers & Power Distribution .....	3 credits

EET	2141C	Electronic Devices I .....	3 credits
EST	2542	Programmable Logic Controllers I .....	3 credits
EST	2544	Programmable Logic Controllers II .....	3 credits
ETG	2941	Professional Internship .....	2 credits

**MECHANICAL**

ETI	1805C	Introduction to Rigging & Lifting.....	3 credits
ETI	2315C	Pneumatic & Hydraulic Principles.....	3 credits
ETI	2408C	Welding Processes .....	3 credits
ETI	2416C	Power Plant Machines & Components I .....	3 credits
ETI	2417C	Power Plant Machines & Components II .....	3 credits
ETI	2425C	Metallurgical Properties & Dynamics.....	3 credits
ETI	2451C	Mechanical Maintenance for Power Plants.....	3 credits
ETG	2941	Professional Internship .....	2 credits

**RADIATION PROTECTION**

CHM	1020	Introduction to Chemistry .....	3 credits
ETG	2210	Radiation Fundamentals .....	3 credits
ETG	2211	Radiation Monitoring.....	3 credits
ETG	2212	Radiation Dosimetry.....	3 credits
ETG	2215	Radiological Safety and Response.....	3 credits
ETG	2942	Professional Internship for Radiation Protection .....	5 credits
ETI	2219	Radiation Protection/Capstone Project .....	3 credits

**ELECTRONICS ENGINEERING TECHNOLOGY**

**A0060 - 68 CREDITS**

**ASSOCIATE IN APPLIED SCIENCE DEGREE**

**LASERS AND PHOTONICS CERTIFICATE - 60290**

**BASIC ELECTRONICS CERTIFICATE - 60300**

**ELECTRONIC TECHNOLOGY CERTIFICATE - 60310**

Lasers, fiber-optics, robotics, automation, wireless networks, biomedical equipment, space exploration, and modern electric power generation are cutting-edge technologies made possible by electronic engineering. The demand for technicians in these fields is at an all time high. Starting salaries for entry-level technicians in any of these fields are higher than the national average. The Electronics Engineering Technology degree offers specialization options in lasers and photonics, robotics and industrial automation, power plant technology, computer technology, and telecommunications.

**GENERAL EDUCATION**

Humanities/Fine Arts

ENC 1101 .....	3 credits
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Natural Science/Mathematics

MTB 1321, PHY 1020 .....	6 credits
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Social/Behavioral Science

see page 146 (ECO 2000 recommended).....	3 credits
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Humanities/Fine Arts or Natural Science/Mathematics

or Social/Behavioral Science

see pages 145 - 146 (POS 1041 recommended).....	3 credits
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**MAJOR FIELD REQUIRED COURSES - 39 credits**

CET	1112C	Logic Circuits I .....	3 credits
CET	1113C	Logic Circuits II .....	3 credits
EET	1724C	Electronic Design Software Tools .....	3 credits
EET	1015C	DC Circuits .....	3 credits
EET	1025C	AC Circuits .....	3 credits
EET	1180C	Troubleshooting & Repair Techniques .....	3 credits
EET	1215C	Introduction to Electronics.....	3 credits
EET	2141C	Electronic Devices I.....	3 credits
EET	2142C	Electronic Devices II.....	3 credits
EET	2325C	Communication Circuits I.....	3 credits
EST	2542	Programmable Logic Controllers I.....	3 credits
EST	2544	Programmable Logic Controllers II.....	3 credits
MTB	1322	Technical Mathematics II.....	3 credits

**SUGGESTED SPECIALIZATION ELECTIVES - Select 14 credits****BIOMEDICAL ELECTRONICS**

EST	2408	Biomedical Seminar.....	3 credits
EST	2424	Biomedical Electronics.....	3 credits
EST	2427	Advanced Biomedical Electronics .....	3 credits
HSC	2531	Medical Terminology I .....	3 credits

**COMPUTER TECHNOLOGY**

CET	1178	A+ Certification Training I.....	3 credits
CET	1179C	A+ Certification Training II.....	3 credits
CET	1588	Network + Certification .....	3 credits
CET	1854	Introduction to Wireless Technology .....	3 credits
CET	2883	Wireless Network Security Certification.....	3 credits

**LASER-PHOTONICS**

EST	2210	Introduction to Photonics.....	3 credits
EST	2215	Geometrical Optics.....	3 credits
EST	2220	Fiber Optics & Data Communications.....	3 credits
EST	2230	Laser Technologies.....	3 credits

**ROBOTICS-MANUFACTURING**

EST	2630	Manufacturing Processes .....	3 credits
EST	2631	Advanced Manufacturing Processes.....	3 credits
EST	2676	Introduction to Robotics.....	3 credits
EST	2678	Industrial Robotics .....	3 credits

**TELECOMMUNICATIONS**

CET	1854	Introduction to Wireless Technologies .....	3 credits
EET	2335C	Telecommunication Circuits II .....	3 credits
EST	2220	Fiber Optics & Data Communications.....	3 credits

**SOLAR ENERGY**

EET	2550	Solar Photovoltaic Systems .....	3 credits
EST	1800	Solar Thermal Systems .....	3 credits

**MAJOR FIELD ELECTIVES**

CET	1178	A+ Certification Training I.....	3 credits
CET	1179C	A+ Certification Training II.....	3 credits

CET	1588	Network + Certification .....	3 credits
CET	1854	Introduction to Wireless Technology.....	3 credits
CET	2123C	Microprocessors I .....	3 credits
CET	2127C	Microprocessors II.....	3 credits
CET	2891	Wireless Network Security Certification.....	3 credits
EET	1181C	Electronic Engineering Technology.....	3 credits
EET	2930	Special Topics in Electronic Engineering .....	½ - 3 credits
EST	1041C	HTI+ Certification.....	3 credits
EST	1931	Special Topics in Manufacturing .....	½ - 3 credits
EST	2210	Introduction to Photonics.....	3 credits
EST	2215	Geometrical Optics.....	3 credits
EST	2220	Fiber Optics & Data Communications.....	3 credits
EST	2230	Laser Technologies.....	3 credits
EST	2408	Biomedical Seminar .....	3 credits
EST	2424	Biomedical Electronics.....	3 credits
EST	2427	Advanced Biomedical Electronics .....	3 credits
EST	2542	Programmable Logic Controllers I.....	3 credits
EST	2544	Programmable Logic Controllers II.....	3 credits
EST	2630	Manufacturing Processes.....	3 credits
EST	2631	Advanced Manufacturing Processes.....	3 credits
EST	2676	Introduction to Robotics.....	3 credits
EST	2678	Industrial Robotics .....	3 credits
EST	2930	Electronic Project Engineering.....	3 credits
EST	2941	Electronics Internship I .....	1 - 2 credits
EST	2942	Electronics Internship II .....	4 credits
HSC	2531	Medical Terminology I .....	3 credits

**LASERS AND PHOTONICS CERTIFICATE - 60290 - 12 CREDITS**

**MAJOR FIELD REQUIRED COURSES - 12 credits**

EET	1015C	DC Circuits .....	3 credits
EET	1025C	AC Circuits.....	3 credits
EST	2210	Introduction to Photonics.....	3 credits
EST	2215	Geometrical Optics.....	3 credits

**BASIC ELECTRONICS CERTIFICATE - 60300 - 14 CREDITS**

**MAJOR FIELD REQUIRED COURSES - 14 credits**

EET	1724C	Electronic Design Software Tools .....	3 credits
EET	1015C	DC Circuits.....	3 credits
EET	1025C	AC Circuits .....	3 credits
EET	1215C	Introduction to Electronics .....	3 credits

Select any one of the following courses:

EET	2930	Special Topics in Electronic Engineering .....	½ - 3 credits
CET	1112C	Logic Circuits I .....	3 credits
EET	2141C	Electronic Devices I .....	3 credits

**ELECTRONIC TECHNOLOGY CERTIFICATE - 60310 - 31 CREDITS**

**MAJOR FIELD REQUIRED COURSES – 31 credits**

CET	1112C	Logic Circuits I .....	3 credits
CET	1113C	Logic Circuits II .....	3 credits
EET	1724C	Electronic Design Software Tools.....	3 credits
EET	1015C	DC Circuits .....	3 credits
EET	1025C	AC Circuits.....	3 credits
EET	1215C	Introduction to Electronics.....	3 credits
EET	2141C	Electronic Devices I.....	3 credits
EET	2142C	Electronic Devices II.....	3 credits
EST	2542	Programmable Logic Controllers I.....	3 credits
EST	2544	Programmable Logic Controllers II.....	3 credits

Select any one of the following courses:

EET	2930	Special Topics in Electronic Engineering .....	½ - 3 credits
EET	1180C	Troubleshooting & Repair Techniques .....	3 credits
EET	2325C	Communication Circuits I.....	3 credits

**EMERGENCY ADMINISTRATION AND MANAGEMENT  
20730 - 60 CREDITS**

**EMERGENCY MANAGEMENT CERTIFICATE - 60260**

**HOMELAND SECURITY EMERGENCY MANAGER CERTIFICATE - 60270**

This degree prepares students for careers in Emergency Management and Homeland Security. The degree is also for all professional or volunteer agency personnel interested in enhancing technical competencies and preparing themselves for advanced work in disaster relief and humanitarian operations. The curriculum is based on an all-hazards approach to emergency management and emphasizes effective operating procedures under all emergency conditions. Graduates of the program typically find employment as aid agency operators, emergency managers and planners, and homeland security specialists.

**GENERAL EDUCATION**

Humanities/Fine Arts

ENC 1101..... 3 credits

Natural Science/Mathematics

see page 146..... 3 credits

Social/Behavioral Science

see page 146..... 3 credits

Humanities/Fine Arts or Natural Science/Mathematics  
or Social/Behavioral Science

see pages 145 - 146..... 6 credits

**MAJOR FIELD REQUIRED COURSES - 18 credits**

FFP	2820	Principles of Emergency Management.....	3 credits
FFP	2801	Incident Command System.....	3 credits
FFP	2840	Disaster Operations .....	3 credits

DSC	1222	Psychological Management of Disasters.....	3 credits
DSC	1641	Exercise Design & Evaluation.....	3 credits
DSC	2949	Internship in Emergency Management.....	3 credits

**MAJOR FIELD ELECTIVES - Select 27 credits**

CGS	1060	College Computing.....	3 credits
or			
CGS	1100	Intro to Computer Applications in Business .....	3 credits
AER	1020C	Orientation to Vehicle Maintenance.....	1 - 3 credits
DSC	1002	Terrorism & U.S. Security .....	3 credits
DSC	1033	Weapons of Mass Destruction .....	3 credits
DSC	1041	CERT: Basic Training.....	1 credit
DSC	1080	CERT: Refresher Training .....	½ - 1 credit
DSC	1081	CERT: Advanced Training.....	½ - 1 credit
DSC	1552	Critical Infrastructure & Disaster Engineering.....	3 credits
DSC	1557	Florida Personal Radiation Detector.....	1 credit
DSC	1558	Detection Equipment for Law Enforcement.....	1 credit
DSC	1632	Summer Institute in International Disaster Relief.....	3 credits
DSC	1642	Field Training Exercise.....	1 - 3 credits
DSC	1930	Current Topics in Public Safety.....	3 credits
FSS	2206	Quantity Food Production .....	3 credits
GIS	1060	GIS with ArcView .....	3 credits
GIS	1041	Introduction to GIS & GPS Applications .....	3 credits
HUN	1201	Nutrition .....	3 credits
MAN	2021	Principles of Management.....	3 credits
MAN	2300	Human Resource Management .....	3 credits

**EMERGENCY MANAGEMENT CERTIFICATE - 60260 - 24 CREDITS**

**MAJOR FIELD REQUIRED COURSES – 12 credits**

DSC	1641	Exercise Design & Evaluation .....	3 credits
DSC	1930	Current Topics in Public Safety.....	3 credits
FFP	2820	Principles of Emergency Management.....	3 credits
FFP	2840	Disaster Operations .....	3 credits

**MAJOR FIELD ELECTIVES – Select 12 credits**

AER	1020C	Orientation to Vehicle Maintenance.....	3 credits
DSC	1002	Terrorism & U.S. Security .....	3 credits
DSC	1033	Weapons of Mass Destruction .....	3 credits
DSC	1222	Psychological Management of Disasters.....	3 credits
DSC	1552	Critical Infrastructure .....	3 credits
DSC	1632	Summer Institute.....	3 credits
DSC	1642	Field Training Exercise.....	1 - 3 credits
DSC	2949	Internship In Emergency Management.....	3 credits
FSS	2206	Quantity Food Production .....	3 credits
GIS	1041	Introduction to GIS & GPS Applications .....	3 credits
GIS	1060	GIS with ArcView.....	3 credits
HUN	1201	Nutrition .....	3 credits



**HOMELAND SECURITY CERTIFICATE - 60270 - 24 CREDITS**

**MAJOR FIELD REQUIRED COURSES – 12 credits**

DSC	1002	Terrorism & U.S. Security .....	3 credits
DSC	1033	Weapons of Mass Destruction .....	3 credits
DSC	1641	Exercise Design & Evaluation .....	3 credits
FFP	2820	Principles of Emergency Management .....	3 credits

**MAJOR FIELD ELECTIVES – Select 12 credits**

FFP	2840	Disaster Operations .....	3 credits
FFP	2801	Incident Command System.....	3 credits
GIS	1041	Introduction to GIS & GPS Applications.....	3 credits
GIS	1060	GIS with ArcView.....	3 credits
DSC	1552	Critical Infrastructure .....	3 credits
DSC	1632	Summer Institute.....	3 credits
DSC	1642	Field Training Exercise.....	1 - 3 credits
DSC	1930	Current Topics I Public Safety.....	3 credits
DSC	2949	Internship I Emergency Management.....	3 credits

**EMERGENCY MEDICAL SERVICES**

**20550 - 73 CREDITS (SELECTIVE ADMISSION)**

**EMERGENCY MEDICAL TECHNOLOGY - APPLIED TECHNOLOGY DIPLOMA**

**B0010 (SELECTIVE ADMISSION)**

**PARAMEDIC CERTIFICATE - 60130 (SELECTIVE ADMISSION)**

The Paramedic Certificate program uses the 1998 National Standard Curriculum from the Department of Transportation, National Highway Safety Administration, to fulfill requirements to practice, under medical direction, the art and science of out-of-hospital medicine. The goal of the program is to provide the graduate with the knowledge, skill, and professional attributes associated with an entry-level Paramedic. Paramedic graduates will be trained to prevent and reduce mortality and morbidity due to illness and injury.

The Emergency Medical Technician Applied Technology Diploma and Paramedic Certificate programs lead to an A.S. Degree in Emergency Medical Services Technology. The A.S. Degree in Emergency Medical Services provides the graduate with a strong general education and science background to enhance and expand the technical knowledge in the EMT and Paramedic Certificate programs.

**GENERAL EDUCATION** – \*may be taken prior to acceptance into the program or must be completed while enrolled in the program.

\*Humanities/Fine Arts

ENC 1101 and ENC 1102 or ENC 2210..... 6 credits

\*Natural Science/Mathematics

BSC 1084 or BSC 2094 and BSC 2094L

and

Select any 8 credits from Natural Science/Mathematics

see page 146.....12 credits

## \*Social/Behavioral Science

PSY 2012 or SYG 2000 ..... 3 credits

**MAJOR FIELD REQUIRED COURSES - 49 credits**

EMS 1119C Emergency Medical Technology ..... 8 credits

EMS 1431 EMT Clinical/Field Experience..... 3 credits

EMS 2601C Paramedic I..... 11 credits

EMS 2602C Paramedic II..... 11 credits

EMS 2664 Paramedic Clinical/Field Experience I..... 6 credits

EMS 2665 Paramedic Clinical/Field Experience II ..... 6 credits

EMS 2659 Paramedic Field Internship..... 4 credits

**MAJOR FIELD ELECTIVES - Select 3 credits**

any EMS course(s) ..... 3 credits

**EMERGENCY MEDICAL TECHNOLOGY – APPLIED TECHNOLOGY DIPLOMA****B0010 - 11 CREDITS (SELECTIVE ADMISSION)**

EMS 1119C Emergency Medical Technology ..... 8 credits

EMS 1431 EMT Clinical/Field Experience..... 3 credits

**PARAMEDIC CERTIFICATE - 60130 - 42 CREDITS (SELECTIVE ADMISSION)**

BSC 1084 Survey of Human Body..... 4 credits  
or

BSC 2094 Anatomy & Physiology II ..... 3 credits  
and

BSC 2094L Anatomy & Physiology II Lab..... 1 credit

EMS 2601C Paramedic I..... 11 credits

EMS 2664 Paramedic Clinical/Field Experience I..... 6 credits

EMS 2602C Paramedic II..... 11 credits

EMS 2665 Paramedic Clinical/Field Experience II ..... 6 credits

EMS 2659 Paramedic Field Internship..... 4 credits

All core curriculum and natural science courses require a grade of "C" or higher.

**FIRE SCIENCE TECHNOLOGY****20570 - 60 CREDITS**

This degree prepares students for careers in the Fire Services and for the fire service or fire protection related professional to enhance technical competencies, and prepare them for career advancement. While providing a scientific understanding of fire hazards and their control, this degree will place emphasis on effective operating procedures at fires and other emergencies. Graduates of the program typically find employment as firefighters, investigators, fire protection and detection specialists, fire engineers, and safety inspectors.

**GENERAL EDUCATION**

Humanities/Fine Arts

ENC 1101..... 3 credits

Natural Science/Mathematics

see page 146 ..... 3 credits

Social/Behavioral Science  
 see page 146..... 3 credits

Humanities/Fine Arts or Natural Science/Mathematics  
 or Social/Behavioral Science  
 see pages 145 - 146 ..... 6 credits

**MAJOR FIELD REQUIRED COURSES - 12 credits**

FFP 1000 Introduction & Orientation to Firefighting..... 3 credits  
 FFP 1505 Fire Inspection Practices ..... 3 credits  
 FFP 1812 Engine & Truck Company Fireground Operations ..... 3 credits  
 FFP 2810 Firefighting Tactics & Strategy I ..... 3 credits

**MAJOR FIELD ELECTIVES - Select 33 credits**

CGS 1000 Introduction to Computer Usage ..... 3 credits  
 or  
 CGS 1060 College Computing ..... 3 credits  
 CJE 2600 Criminal Investigation ..... 3 credits  
 DSC 1860 Introduction to Public Safety Careers ..... 3 credits  
 DSC 1930 Current Topics in Public Safety..... 3 credits  
 EMS 1119C Emergency Medical Technology ..... 8 credits  
 EMS 1431 EMT Clinical/Field Experience..... 3 credits  
 EMS 1335 Ambulance Emergency Vehicle Operator Course..... 1 credit  
 FFP 1040 Private Fire Brigade..... 3 credits  
 FFP 1102 Physical Conditioning for Firefighters..... 1 credit  
 FFP 1106 Multiple Alarm Operations..... 3 credits  
 FFP 1109 Occupational Safety & Health for the Fire Service..... 3 credits  
 FFP 1120 Characteristics of Building Construction ..... 3 credits  
 FFP 1212 Confined Space Rescue I ..... 3 credits  
 FFP 1302 Fire Department Pumping Apparatus..... 3 credits  
 FFP 1521 Plans Examination & Blueprint Reading..... 3 credits  
 FFP 1540 Fire Protection & Detection Systems ..... 3 credits  
 FFP 1610 Fire Behavior & Combustion..... 3 credits  
 FFP 1793 Fire & Life Safety Educator I ..... 3 credits  
 FFP 1930 Contemporary Issues in the Fire Service..... 3 credits  
 FFP 2111 Fire Chemistry ..... 3 credits  
 FFP 2201 Rope Rescue Practices I ..... 3 credits  
 FFP 2301 Fire Hydraulics..... 3 credits  
 FFP 2401 Hazardous Materials Technician Module I ..... 3 credits  
 FFP 2402 Hazardous Materials Technician Module II ..... 3 credits  
 FFP 2421 Hazardous Materials Technician Module III ..... 3 credits  
 FFP 2510 Building & Fire Codes I..... 3 credits  
 FFP 2541 Private Fire Protection Systems II..... 3 credits  
 FFP 2604 Fire & Arson Investigation..... 3 credits  
 FFP 2706 Public Information Officer (PIO)..... 3 credits  
 FFP 2720 Company Officer Leadership ..... 3 credits  
 FFP 2740 Fire Service Course Delivery..... 3 credits  
 FFP 2741 Fire Service Course Design..... 3 credits

FFP	2770	Legal Issues for the Fire Service .....	3 credits
FFP	2781	Fire Department Organization & Administration.....	3 credits
FFP	2801	Incident Command System.....	3 credits
FFP	2811	Firefighting Tactics & Strategy II .....	3 credits
FFP	2820	Principles of Emergency Management .....	3 credits
FFP	2840	Disaster Operations .....	3 credits
FFP	2949	Internship in Fire Science .....	1 - 4 credits

Successful completion of the state certification exam (license) for this program may entitle a student to receive credit towards the A.S. Degree based on demonstrated competencies.

The following courses satisfy the curriculum required for the Bureau of Fire Standards and Training for the Fire Officer I Certificate Examination: FFP 1120, FFP 1505, FFP 1540, FFP 2720, FFP 2740, FFP 2801, and FFP 2810, FFP 2811.

The following courses satisfy the curriculum required by the Bureau of Fire Standards and Training for the Fire Safety Inspector I Certification Examination: FFP 1540, FFP 1505, FFP 1120, FFP 1521, and FFP 2510.

**GOLF COURSE OPERATIONS  
A0070 - 69 CREDITS  
ASSOCIATE IN APPLIED SCIENCE**

**TURF EQUIPMENT - APPLIED TECHNOLOGY DIPLOMA - B0030  
PEST CONTROL OPERATIONS - APPLIED TECHNOLOGY DIPLOMA - B0020**

Golf Course and Recreational Turf Operations expands and enhances job opportunities for students in one of the fastest growing job markets on the Research Coast. The degree and/or applied technology diplomas prepares students for employment and licensure in the areas of installation, design and maintenance of irrigation systems, application and calibration of pesticides for pest prevention, and landscape design and maintenance.

**GENERAL EDUCATION**

Humanities/Fine Arts

ENC 1101 and see pages 145, 146..... 6 credits

Natural Science/Mathematics

see page 146..... 3 credits

Social/Behavioral Science

see page 146..... 6 credits

**MAJOR FIELD REQUIRED COURSES - 25 credits**

CGS	1100	Intro to Computer Applications for Business .....	3 credits
GCO	1400	Turfgrass for Golf & Landscaping.....	3 credits
GCO	1402	Turfgrass Science .....	3 credits
GCO	2632	Golf Course Organization/Administration.....	3 credits
HOS	1010	Fundamentals of Horticulture .....	4 credits
MNA	2932	Professional Development.....	3 credits
PMA	2211	Insects & Diseases of Ornamental Plants .....	3 credits
or			
GCO	1450	Integrated Pest Management for Golf Courses.....	3 credits
SWS	2104	Soils & Fertilizers.....	3 credits

**MAJOR FIELD ELECTIVES - Select 29 credits**

DIM	1001	Introduction to Diesel Engines .....	4 credits
ENC	2200	Business Communications .....	3 credits
ENY	1002	Fundamentals of Entomology.....	3 credits
ETD	1320	Introduction to AutoCAD.....	3 credits
ETD	2568C	CAD-Landscape .....	3 credits
GCO	1201C	Golf Course Mechanics I.....	3 credits
GCO	1202C	Golf Course Mechanics II.....	3 credits
GCO	1204	Hydraulics & Electronics.....	3 credits
GCO	1213	Small Engine Repair.....	3 credits
GCO	1214	Preventative Maintenance.....	3 credits
GCO	1930	Special Topics in Golf Course Operations.....	½ - 3 credits
GCO	1942	Field Training in Turf Equipment Management .....	3 credits
GCO	1947	Golf Course Design Concepts.....	3 credits
GCO	1611	Golf Course Shop Management .....	3 credits
GCO	2601	Materials Calculations .....	3 credits
GCO	2944	Golf Course Internship .....	3 - 6 credits
GCO	2945	Supervised Work Experience.....	1 - 4 credits
GIS	1931	Orientation to GIS Applications .....	½ - 3 credits
IPM	1323	Application of Pesticides.....	3 credits
ORH	1510	Plant Identification .....	3 credits
ORH	2859	Landscape Design & Maintenance .....	3 credits
PMT	1120	Electric Welding I.....	4 credits
PMT	1128	Combination Welding I.....	4 credits
SWS	1102	Irrigation System I.....	3 credits
SWS	2304	Irrigation System II .....	3 credits
SPN	1000	Spanish for Daily Use .....	2 credits

**TURF EQUIPMENT – APPLIED TECHNOLOGY DIPLOMA  
B0030 - 38 CREDITS**

The Applied Technology Diploma in Turf Equipment Management provides excellent preparation for a career dedicated to the repair and maintenance of highly specialized equipment. Students are trained to repair and maintain all types of equipment and to organize and manage maintenance facilities.

**Select 38 credits from the following:**

CGS	1100	Intro to Computer Applications for Business .....	3 credits
DIM	1001	Introduction to Diesel Engine .....	4 credits
GCO	1201C	Golf Course Mechanics I.....	3 credits
GCO	1202C	Golf Course Mechanics II.....	3 credits
GCO	1204	Hydraulics & Electronics.....	3 credits
GCO	1213	Small Engine Repair.....	3 credits
GCO	1214	Preventive Maintenance.....	3 credits
GCO	1400	Turfgrass for Golf & Landscaping.....	3 credits
GCO	1942	Field Training in Turf Equipment Management .....	3 credits
GCO	2632	Golf Course Organization/Administration.....	3 credits

GCO	2945	Supervised Work Experience.....	1 - 4 credits
MNA	2932	Professional Development Seminar I.....	3 credits
PMT	1120	Electric Welding I.....	4 credits
PMT	1128	Combination Welding I.....	4 credits
SPN	1000	Spanish for Daily Use.....	1 credit

**PEST CONTROL OPERATIONS - APPLIED TECHNOLOGY DIPLOMA  
B0020 - 24 CREDITS**

Students may increase their opportunities for employment by completing the 24 credit Pest Control Operations Applied Technology Diploma. These courses will prepare the student for the licensure exam in \*Restricted Pesticides Applications.

**Select 24 credits from the following:**

ENY	1002	Fundamentals of Entomology.....	3 credits
GCO	1400	Turfgrass for Golf & Landscaping.....	3 credits
GCO	1402	Turfgrass Science.....	3 credits
GCO	1450	Integrated Pest Management for Golf Courses.....	3 credits
GCO	2601	Materials Calculations.....	3 credits
HOS	1010	Fundamentals of Horticulture.....	4 credits
IPM	1323	Application of Pesticides.....	3 credits
ORH	1510	Plant Identification.....	3 credits
ORH	1511	Plant Identification II.....	2 credits
PMA	2211	Insects & Diseases of Ornamental Plants.....	3 credits
SWS	2104	Soils & Fertilizers.....	3 credits

\*One year of documented experience in Pest Control is required for those seeking licensure in Restricted Pesticides Application.

**GRAPHIC DESIGN TECHNOLOGY  
20580 - 64 CREDITS**

**GRAPHIC DESIGN SUPPORT CERTIFICATE – 60340  
GRAPHIC DESIGN PRODUCTION CERTIFICATE – 60350**

By providing students with theoretical and classroom experience which closely parallels on-the-job activities, this program prepares students for careers in the graphics, printing, and advertising industries. Graphics Design Technology prepares students for employment as designers, commercial artists, computer graphic designers, layout production, and entry-level multimedia graphics. It requires knowledge of art, communication, and computer skills to be applied with design techniques and knowledge required to enter the field of graphic design as a technical specialist. The structure of the degree program requires the student to obtain a solid foundation in the fundamentals through general education and technical core courses. The specialization can be used to further enhance the expertise. This degree can also be a basis for the IRSC B.A.S. in Digital Media.

**GENERAL EDUCATION**

Humanities/Fine Arts

ENC 1101 and ENC 1102 or ENC 1107 or ENC 2210.....	6 credits
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## Natural Science/Mathematics

PHY 1020 or higher and MAC 1105 or higher..... 6 credits

## Social/Behavioral Science

see page 146..... 3 credits

**MAJOR FIELD REQUIRED COURSES - 24 credits**

ART	1201C	Color & Design I.....	3 credits
DIG	1000	Digital Media Principles.....	3 credits
DIG	1115	Digital Imaging Fundamentals.....	3 credits
DIG	2030	Digital Video Fundamentals.....	3 credits
DIG	2581	Digital Media Portfolio.....	3 credits
DIG	2302	3D Digital Animation I.....	3 credits
GRA	1129	Visualization Basics.....	3 credits
PGY	1800	Principles of Digital Photography.....	3 credits

**CORE SPECIALIZATION ELECTIVES - Select 25 credits****GRAPHIC DESIGN CORE COURSES**

GRA	1112	QuarkXpress.....	3 credits
GRA	1151	Adobe Illustrator.....	3 credits
DIG	2116	PhotoShop Level II.....	3 credits
GRA	1206	Typography.....	3 credits
GRA	2170	Introduction to Advertising Design and Graphics.....	3 credits
GRA	2130	Presentation Technology.....	3 credits

**WEB DESIGN CORE COURSES**

CGS	1821	Website Development.....	3 credits
CGS	2878	Multimedia Programming.....	3 credits
CGS	2874	Advanced Multimedia.....	3 credits
DIG	2251	Digital Audio I.....	3 credits
GRA	2160	Adobe Animation I - Live Motion.....	3 credits
GRA	2161	2D Digital Animation.....	3 credits

**MAJOR FIELD ELECTIVES**

ART	1203C	Color & Design II.....	3 credits
ART	1300C	Drawing I.....	3 credits
DIG	1930	Special Topics in Digital Media.....	½ - 3 credits
PGY	1801	Introduction to Digital Photography.....	1 credit
DIG	2303	3D Digital Animation II.....	3 credits
DIG	2292	Digital Video Post Production.....	3 credits
GRA	2152	Adobe Illustrator 2.....	3 credits
FIL	1030	History of Film.....	3 credits
GRA	2124	Publication Production and Prepress.....	3 credits
GRA	2714	Digital Video Production 2.....	3 credits
TPA	1200	Beginning Stagecraft.....	3 credits

Up to two courses with PGY prefix

**GRAPHIC DESIGN SUPPORT CERTIFICATE – 60340 - 15 CREDITS**

This Graphic Design Support Certificate offers basic preparation for a career as an Assistant Graphic Designer. Students are trained in image editing and graphic layout, basic graphic design, photo enhancement, illustrations and publishing techniques.

**MAJOR FIELD REQUIRED COURSES – 15 credits**

DIG	1000	Digital Media Principles .....	3 credits
DIG	1115	Digital Imaging Fundamentals.....	3 credits
GRA	1151	Adobe Illustrator .....	3 credits
DIG	2116	PhotoShop Level II.....	3 credits
PGY	1800	Principles of Digital Photography .....	3 credits

**GRAPHIC DESIGN PRODUCTION CERTIFICATE – 60350 - 24 CREDITS**

This Graphic Design Production Certificate offers advanced preparation for a career as a Graphic Production Artist or assistant. Students are trained in graphic design techniques, image editing and enhancement, layout, Web design, typography, illustrations and publishing techniques.

**MAJOR FIELD REQUIRED COURSES – 24 credits**

CGS	1821	Website Development.....	3 credits
DIG	1000	Digital Media Principles.....	3 credits
DIG	1115	Digital Imaging Fundamentals.....	3 credits
GRA	1129	Visualization Basics .....	3 credits
GRA	1112	QuarkXpress .....	3 credits
GRA	1151	Adobe Illustrator .....	3 credits
DIG	2116	Photoshop Level II.....	3 credits
GRA	1206	Typography.....	3 credits

**HEALTH INFORMATION MANAGEMENT  
20590 - 67 CREDITS (SELECTIVE ADMISSION)  
MEDICAL INFORMATION CODER/BILLER CERTIFICATE  
60200 (SELECTIVE ADMISSION)**

This degree program prepares the student for employment as a Health Information Technician (HIT). Responsibilities include coding of diagnoses and procedures; and processing, confidentiality, storage and retrieval of health information. Lectures, activities and student projects focus on medical-legal aspects, quality improvement, health care data analysis, and supervision of health information employees. Students benefit from classroom lecture, computer laboratory preparation, and internship experience in local health care facilities.

Graduates are eligible to take the Registered Health Information Technician (RHIT) examination. The American Health Information Management Association (AHIMA) awards the RHIT credential to successful candidates. The Health Information Management program at IRSC is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM).

**GENERAL EDUCATION**

Humanities/Fine Arts	
ENC 1101, SPC 1608.....	6 credits



Natural Science/Mathematics

BSC 1084 or BSC 2093, BSC 2093L, BSC 2094 and BSC 2094L.... 4 credits  
 Any 6 credits from Natural Science/Mathematics,  
 see page 146 ..... 6 credits

Social/Behavioral Science

PSY 2012 or SYG 2000 ..... 3 credits

**MAJOR FIELD REQUIRED COURSES - 48 credits**

HIM	1000	Intro to Health Information Management.....	3 credits
HIM	1012	Legal Aspects of Health Information.....	2 credits
HSC	2531	Medical Terminology I .....	3 credits
CGS	1100	Intro to Computer Applications for Business.....	3 credits
HIM	1510C	Health Care Data Analysis .....	3 credits
HSC	2532	Medical Terminology II .....	2 credits
HIM	2433	Pathophysiology.....	3 credits
MAT	1033	Intermediate Algebra.....	3 credits
HIM	1442	Pharmacology for HIM.....	2 credits
HIM	1222	Basic ICD-9 Coding.....	3 credits
HIM	1282	Basic CPT Coding .....	3 credits
HIM	2825	Health Office Internship .....	3 credits
HIM	2506	Quality Assessment.....	2 credits
HIM	1273C	Billing & Reimbursement Methods .....	3 credits
MAN	2021	Principles of Management.....	3 credits
HIM	2826	Health Office Externship .....	3 credits
HIM	2232	Intermediate ICD-9 Coding .....	2 credits
HIM	2254	Intermediate CPT Coding .....	2 credits

**MEDICAL INFORMATION CODER/BILLER CERTIFICATE - 60200 - 36 CREDITS**  
**(SELECTIVE ADMISSION)**

This program prepares students for employment in a variety of health care settings as an entry level coder, medical record coder, coding technician, or coding clerk. The content includes: medical terminology, anatomy and physiology, coding systems, fundamentals of disease process including pharmacology, health care delivery systems, basics of medical records services, ethical and legal responsibilities, safety/security procedures, basic data processing, and employability skills. The program consists of classroom lecture, laboratory and clinicals.

**MAJOR FIELD REQUIRED COURSES – 36 credits**

HSC	2531	Medical Terminology I .....	3 credits
BSC	1084	Survey of the Human Body.....	4 credits
HIM	1282	Basic CPT Coding .....	3 credits
HIM	1000	Intro to Health Information Management.....	3 credits
HIM	1012	Legal Aspects of Health Information.....	2 credits
HIM	1222	Basic ICD-9 Coding.....	3 credits
HIM	1442	Pharmacology for HIM.....	2 credits
HIM	1510C	Health Care Data Analysis .....	3 credits
HIM	1273C	Billing & Reimbursement Methods .....	3 credits

HIM	2433	Pathophysiology.....	3 credits
HIM	2232	Intermediate ICD9 Coding .....	2 credits
HIM	2254	Intermediate CPT Coding .....	2 credits
HIM	2825	Health Information Internship .....	3 credits

**HEALTH SERVICES MANAGEMENT**  
**20740 - 62 CREDITS (SELECTIVE ADMISSION)**

This degree prepares students for management roles in a health care environment. The program is intended for individuals interested in entering the health care field and health care personnel who have completed a post secondary adult vocational or college certificate from an accredited certificate program in a health science area and have successfully completed licensure/certification exams.

**GENERAL EDUCATION** - \*may be taken prior to acceptance into the program or must be completed while enrolled in the program.

Humanities/Fine Arts

ENC 1101 and PHI 1635 or PHI 2630 ..... 6 credits

Natural Science

BSC 1084 ..... 4 credits

Mathematics

see page 146 ..... 3 credits

Social/Behavioral Science

PSY 2012 and ECO 2013 or ECO 2023 ..... 6 credits

**MAJOR FIELD REQUIRED COURSES - 43 credits**

ACG 2001 Financial Accounting I.....3 credits  
 or

APA 1111 Introduction to Accounting.....3 credits

CGS 1060 College Computing.....3 credits

or

CGS 1100 Intro to Computer Applications-Business ..... 3 credits

BUL 2241 Business Law I..... 3 credits

GEB 1011 Introduction to Business.....3 credits

HSA 2182 Health Services Management Concepts ..... 4 credits

HSC 1001 Introduction to Health Professions..... 3 credits

HSC 1802 Health Science Seminar/Work Experience ..... 4 credits

HSC 2531 Medical Terminology I..... 3 credits

HSC 2632 Overview of Health Care Delivery..... 4 credits

HSC 2810 Health Service Management Practicum..... 4 credits

MAN 2300 Human Resource Management ..... 3 credits

MNA 2345 Supervision..... 3 credits

MAR 2011 Principles of Marketing..... 3 credits

**COMPETENCY VALIDATION ELIGIBLE COURSES:**

Students who have completed a post secondary adult vocational or college certificate in an Allied Health area from an accredited program and have passed the licensing exam can receive a maximum of 18 competency credits. Before competency validation

of credits can occur, the student must submit their state or national license in the respective field to the Health Science Division.

HSC	1001	Introduction to Health Professions.....	3 credits
HSC	1802	Health Science Seminar/Work Experience .....	4 credits
HSC	2531	Medical Terminology I .....	3 credits
HSC	2632	Overview of Health Care Delivery.....	4 credits
HSC	2810	Health Service Management Practicum.....	4 credits

**HUMAN SERVICES  
20600 - 65 CREDITS**

This program prepares beginning Human Services Workers for careers in a wide variety of human services settings including children’s service agencies, state attorneys’ offices, substance abuse facilities, domestic abuse shelters, juvenile intervention programs, social service agencies, and mental health facilities. Students learn techniques and strategies to assist clients in identifying problematic behavior and promoting positive personal growth. Students will acquire both theoretical as well as practical expertise in the Human Services field.

Courses marked with an asterisk (\*) are recommended for students planning to pursue a Bachelor of Science Degree in Human Services at IRSC.

**GENERAL EDUCATION**

Humanities/Fine Arts

ENC 1101.....	3 credits
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Natural Science/Mathematics

see page 146 or BSC 2010 or *BSC 1005 .....	3 credits
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Social/Behavioral Science

see page 146 or *PSY 2012, *SYG 2000 .....	6 credits
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Humanities/Fine Arts or Natural Science/Mathematics

or Social/Behavioral Science

see pages 145 - 146 or *PHI 1103 .....	3 credits
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**MAJOR FIELD REQUIRED COURSES - 31 credits**

CLP	2140	Abnormal Psychology.....	3 credits
HUS	1001	Introduction to Human Services.....	3 credits
HUS	1200	Group Dynamics .....	3 credits
HUS	1400	Introduction to Drugs of Abuse.....	3 credits
HUS	2301	Counseling Techniques.....	3 credits
HUS	2302	Techniques of Interviewing & Intervention .....	3 credits
HUS	2401	Substance Abuse & Treatment.....	3 credits
HUS	2500	Introduction to Ethics in Human Services .....	3 credits
HUS	2820	Internship in Human Services .....	4 credits
SYG	1430	Family Relations .....	3 credits

**MAJOR FIELD ELECTIVES - Select 19 credits**

CGS	1000	Introduction to Computer Usage .....	3 credits
or			
*CGS	1060	College Computing.....	3 credits

BSC	2010L	General Biology I Lab .....	1 credit
or			
BSC	1005L	Life Science Lab .....	1 credit
CCJ	1600	Deviant Behavior .....	3 credits
CGS	1061	Orientation to the Computer.....	1 credit
DEP	1002	Child & Adolescent Psychology.....	3 credits
*ENC	1102	English Composition II.....	3 credits
GEY	1000	Issues of the Aging.....	3 credits
HUS	1318	Domestic Abuse & Family Violence.....	3 credits
HSC	2400	First Aid & Safety.....	3 credits
HUS	1307	Sexual Abuse of Children.....	3 credits
HUS	2111	Introduction to Interpersonal Behavior .....	3 credits
*MGF	2106	Mathematics for Liberal Arts I or higher .....	3 credits
PHI	1450	Philosophy of Psychology.....	3 credits
PPE	2001	Person & Personality Development.....	3 credits
SYG	2010	Social Problems.....	3 credits

**INTERIOR DESIGN TECHNOLOGY  
20620 - 75 CREDITS**

**KITCHEN & BATH DESIGN CERTIFICATE - 60280**

**Endorsed by the National Kitchen and Bath Association**

A professional interior designer is qualified by education and experience to identify, research, and creatively solve problems relating to the function and quality of man’s interior environment. The interior designer is a licensed professional in Florida. Education and work experience along with passage of the state examination (NCIDQ) are the requirements to become a licensed interior designer in Florida.

**GENERAL EDUCATION**

Humanities/Fine Arts	
ENC 1101.....	3 credits
Natural Science/Mathematics	
see page 146.....	3 credits
Social/Behavioral Science	
see page 146.....	3 credits
Humanities/Fine Arts or Natural Science/Mathematics or Social/Behavioral Science	
see pages 145 - 146 .....	6 credits

**MAJOR FIELD REQUIRED COURSES - 56 credits**

BCN	1250	Architectural Drafting Principles.....	3 credits
or			
BCN	2251	Architectural Drafting-Residential .....	3 credits
CTE	1401	Introduction to Textiles.....	3 credits
ETD	1320	Introduction to AutoCAD.....	3 credits
IND	1015	Residential Interior Design .....	3 credits
IND	1020	Principles of Interior Design .....	3 credits

IND	1301	Interior Design Graphics .....	3 credits
IND	1423	Survey of Materials & Resources .....	1 credit
IND	1432	Lighting for Interior Design .....	2 credits
IND	1462	Introduction to Architectural CAD .....	3 credits
IND	1935	Building & Barrier Free Codes .....	3 credits
IND	2016	Commercial Interior Design I .....	3 credits
IND	2100	History of Interiors I .....	3 credits
IND	1134	History of Interiors II .....	3 credits
IND	1019	Commercial Interior Design II .....	3 credits
IND	2420	Materials & Sources of Interior Design .....	3 credits
IND	2500	Interior Design Business Practices .....	3 credits
IND	2910	Kitchen & Bath Design I .....	3 credits
IND	2940	Interior Design Practicum I .....	4 credits
IND	2941	Interior Design Practicum II .....	4 credits

**MAJOR FIELD ELECTIVES - Select 4 credits**

IND	1401	Technical Design I .....	2 credits
IND	2209	Designing for the Aging Client .....	1 credit
IND	2911	Kitchen & Bath Design II .....	2 credits
IND	2931	Special Topics in Interior Design .....	½ - 5 credits
IND	2942	Interior Design Practicum III .....	4 credits

**KITCHEN & BATH DESIGN CERTIFICATE - 60280 - 39 CREDITS**

**MAJOR FIELD REQUIRED COURSES - 36 credits**

BCN	1250	Architectural Drafting Principles .....	3 credits
or			
BCN	2251	Architectural Drafting-Residential .....	3 credits
ETD	1320	Introduction to AutoCAD .....	3 credits
IND	1020	Principles of Interior Design .....	3 credits
IND	1301	Interior Design Graphics .....	3 credits
IND	1423	Survey of Materials & Resources .....	1 credit
IND	1432	Lighting for Interior Design .....	2 credits
IND	1462	Introduction to Architectural CAD .....	3 credits
IND	1935	Building & Barrier Free Codes .....	3 credits
IND	2420	Materials & Sources of Interior Design .....	3 credits
IND	2500	Interior Design Business Practices .....	3 credits
IND	2910	Kitchen & Bath Design I .....	3 credits
IND	2911	Kitchen & Bath Design II .....	2 credits
IND	2940	Interior Design Practicum I .....	4 credits

**MAJOR FIELD ELECTIVES - Select 3 credits**

IND	1401	Technical Design .....	2 credits
IND	2209	Designing for the Aging Client .....	1 credit
IND	2931	Special Topics in Interior Design .....	½ - 5 credits
IND	2941	Interior Design Practicum II .....	4 credits

**LANDSCAPE AND HORTICULTURE TECHNOLOGY**

**A0080 - 64 CREDITS**

**ASSOCIATE IN APPLIED SCIENCE DEGREE**

**LANDSCAPE & HORTICULTURE SPECIALIST CERTIFICATE - 60220**

**LANDSCAPE & HORTICULTURE PROFESSIONAL CERTIFICATE - 60230**

**LANDSCAPE & HORTICULTURE TECHNICIAN CERTIFICATE - 60240**

Horticultural Landscape Design classes are designed to expand and enhance job opportunities for students already in the landscape business. The courses prepare students for employment in the areas of landscape design and maintenance, application of pesticides for pest control and prevention, installation, design and maintenance of irrigation systems, and turf equipment repair and maintenance.

**GENERAL EDUCATION**

Humanities/Fine Arts

ENC 1101 and see page 145 - 146 ..... 6 credits

Natural Science/Mathematics

see pages 146 ..... 3 credits

Social/Behavioral Science

see page 146 ..... 6 credits

**MAJOR FIELD REQUIRED COURSES - 28 credits**

CGS	1060	College Computing.....	3 credits
HOS	1010	Fundamentals of Horticulture .....	4 credits
SBM	1000	Entrepreneurship .....	3 credits
ORH	1231	Lawn Care Maintenance.....	3 credits
ORH	1510	Plant Identification .....	3 credits
ORH	2859	Landscape Design & Maintenance.....	3 credits
PMA	2211	Insects & Diseases of Ornamental Plants.....	3 credits
SWS	1102	Irrigation Systems I.....	3 credits
SWS	2104	Soils & Fertilizers.....	3 credits

**MAJOR FIELD ELECTIVES - Select 21 credits**

AEB	1132	Farm Management.....	3 credits
AEB	1943	Agribusiness Work Experience .....	1 - 3 credits
AGR	1540C	Fundamental Principles of Arboriculture.....	3 credits
AGR	1930	Special Topics in Arboriculture .....	1 credit
BCN	1250	Architectural Drafting Principles.....	3 credits
ENY	1002	Fundamentals of Entomology.....	3 credits
ETD	1320	Introduction to AutoCAD.....	3 credits
ETD	2568C	CAD - Landscape .....	3 credits
GCO	1214	Preventative Maintenance.....	3 credits
GCO	1400	Turfgrass for Golf & Landscaping.....	3 credits
GCO	1402	Turfgrass Science.....	3 credits
GCO	2601	Materials Calculations .....	3 credits
GEB	1011	Introduction to Business.....	3 credits
HOS	1060	Compost & Recycling.....	3 credits
HOS	1930	Special Topics in Horticulture.....	1 - 4 credits

IPM	1323	Application of Pesticides.....	3 credits
LDE	2403	Advanced Landscape Design .....	3 credits
MKA	1303	Mid-Management Seminar & Work Experience I .....	4 credits
MNA	2932	Professional Development.....	½ - 5 credits
ORH	1010	Sustainable Landscape Practices.....	3 credits
ORH	1511	Plant Identification II .....	3 credits
ORH	1710	Environmental Landscape Management.....	1 credit
ORH	2601	Retail Nursery Operations.....	3 credits
ORH	2841	Landscape Installation.....	3 credits
ORH	2941	Landscape Field Training.....	3 - 6 credits
SWS	2304	Irrigation Systems II.....	3 credits
SPN	1000	Spanish for Daily Use I .....	2 credits

**LANDSCAPE & HORTICULTURE SPECIALIST CERTIFICATE  
60220 - 12 CREDITS**

HOS	1010	Fundamentals of Horticulture .....	4 credits
ORH	1510	Plant Identification .....	3 credits
ORH	1511	Plant Identification II .....	2 credits
ORH	2859	Landscape Design & Maintenance.....	3 credits

**LANDSCAPE & HORTICULTURE PROFESSIONAL CERTIFICATE  
60230 - 18 CREDITS**

HOS	1010	Fundamentals of Horticulture .....	4 credits
ORH	1510	Plant Identification .....	3 credits
ORH	2859	Landscape Design & Maintenance.....	3 credits
SPN	1000	Spanish for Daily Use I .....	2 credits
SWS	2104	Soils & Fertilizers.....	3 credits
Any HOS, LDE, ORH, PMA, SOS courses.....			3 credits

**LANDSCAPE & HORTICULTURE TECHNICIAN CERTIFICATE  
60240 - 30 CREDITS**

**MAJOR FIELD REQUIRED COURSES - 15 credits**

HOS	1010	Fundamentals of Horticulture .....	4 credits
ORH	1510	Plant Identification .....	3 credits
ORH	2859	Landscape Design & Maintenance.....	3 credits
SWS	2104	Soils & Fertilizers.....	3 credits
SPN	1000	Spanish for Daily Use I .....	2 credits

**With specialization in Horticulture**

ORH	2601	Retail Nursery Operations.....	3 credits
Any HOS, LDE, ORH, PMA, SOS courses.....			12 credits

**With specialization in Landscape Maintenance**

IPM	1323	Application of Pesticides.....	3 credits
ORH	1231	Lawn Care Maintenance .....	3 credits
ORH	2841	Landscape Installation.....	3 credits
PMA	2211	Insects & Diseases of Ornamental Plants .....	3 credits
SWS	1102	Irrigation Systems I.....	3 credits

**With specialization in Landscape Design**

BCN	1250	Architectural Drafting Principles.....	3 credits
CGS	1060	College Computing .....	3 credits
ETD	1320	Introduction to AutoCAD.....	3 credits
ETD	2568C	CAD – Landscape.....	3 credits
LDE	2403	Advanced Landscape Design .....	3 credits

**MARKETING MANAGEMENT**

**20650 - 64 CREDITS**

**MARKETING OPERATIONS CERTIFICATE - 60070**

This degree provides excellent preparation for students pursuing careers in sales and marketing within a number of industries prominent on the Research Coast. While providing a sound theoretical foundation, courses within this degree program emphasize the development of marketable skills essential to career success, including sales techniques, promotional strategies, and prudent management practices.

**GENERAL EDUCATION**

Humanities/Fine Arts			
	ENC 1101.....		3 credits
Natural Science/Mathematics			
	see page 146.....		3 credits
Social/Behavioral Science			
	ECO 2000, ECO 2013 or ECO 2023.....		3 credits
Humanities/Fine Arts or Natural Science/Mathematics or Social/Behavioral Science			
	see pages 145 - 146 .....		6 credits

**MAJOR FIELD REQUIRED COURSES - 35 credits**

APA or	1111	Introduction to Accounting.....	3 credits
ACG	2001	Financial Accounting I .....	3 credits
CGS or	1060	College Computing .....	3 credits
CGS or	1100	Intro to Computer Applications for Business.....	3 credits
CIS	1000	Introduction to Information Technology .....	3 credits
GEB or	1011	Introduction to Business.....	3 credits
GEB	1931	Introduction to Business Technology .....	3 credits
MNA or	2100	Interpersonal Relations in Business .....	3 credits
SLS	1261	Essentials of Contemporary Leadership.....	3 credits
MAN or	2021	Principles of Management.....	3 credits
MNA	2345	Supervision .....	3 credits
ADV	2000	Advertising & Sales Promotion .....	3 credits
MAR	2011	Principles of Marketing .....	3 credits
MKA	1303	Mid-Management Seminar & Supervised Exp. I .....	4 credits



MKA	1313	Mid-Management Seminar & Supervised Exp. II .....	4 credits
MKA	2021	Salesmanship.....	3 credits
QMB	1001	Mathematics of Business.....	3 credits

**MAJOR FIELD ELECTIVES - Select 14 credits**

BUL	2241	Business Law I.....	3 credits
MAN	2300	Human Resource Management.....	3 credits
MKA	2323	Mid-Management Seminar & Supervised Exp. III .....	4 credits
MNA	1821	Electronic Commerce.....	3 credits

Maximum of two courses with CGS, MAN, MKA, MNA, HFT, or SLS prefix

Students may enhance their career success by first attaining a **Certificate in Marketing Operations (60070)** by completing 24 credits from the **Major Field Required** courses and **Major Field Electives** sections above. Attaining the A.S. Degree is then simply a matter of completing the General Education required courses and the remaining 25 credits of Major Field Required and Elective courses.

**MEDICAL LABORATORY TECHNOLOGY - 20660**  
**76 CREDITS (SELECTIVE ADMISSION)**

Students in the Medical Lab Technology (MLT) program pursue an A.S. Degree and upon completion will be eligible to take the American Society of Clinical Pathologist Medical Laboratory Technician, and American Association of Bioanalysts Medical Technologist certification examinations. Students accepted into the MLT program receive a strong general education with a foundation in medical technology. The program consists of classroom instruction, lab practice, clinical time in a hospital lab, and culminates in a 12-week clinical practicum at a local hospital.

**GENERAL EDUCATION** - \*may be taken prior to acceptance into the program or must be completed while enrolled in the program.

\*Humanities/Fine Arts

ENC 1101.....	3 credits
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\*Natural Science/Mathematics

Any 8 credits of Biological Science with lab: BSC 1421 and BSC 1421L; BSC 2426 and BSC 2426L; BSC 2010 and BSC 2010L; BSC 2011 and BSC 2011L; BSC 2093 and BSC 2093L; BSC 2094 and BSC 2094L; MCB 2010 and MCB 2010L

Any 8 credits of Chemistry: CHM 1020, CHM 1032, CHM 1045 and CHM 1045L, CHM 1046 and CHM 1046L.....16 credits

\*Social/Behavioral Science

PSY 2012 or SYG 2000 .....	3 credits
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**MAJOR FIELD REQUIRED COURSES - 54 credits**

*MLT	1000C	Introduction to Biomedical Technology.....	3 credits
MLT	1040C	Introduction to Specimen Processing.....	2 credits
MLT	1230	Urinalysis & Body Fluids.....	2 credits
MLT	1230L	Urinalysis & Body Fluids Laboratory.....	1 credit
MLT	1362	Hematology & Coagulation .....	4 credits
MLT	1362L	Hematology & Coagulation Lab.....	1 credit

MLT	1440C	Parasitology & Mycology .....	2 credits
MLT	1500C	Immunology & Serology .....	4 credits
MLT	1525	Immunoematology (Blood Bank).....	4 credits
MLT	1525L	Immunoematology Lab .....	1 credit
MLT	2033	Medical Lab Career Orientation .....	1 credit
MLT	1199	Introduction to Molecular Diagnostics.....	1 credit
MLT	2400	Medical Microbiology .....	4 credits
MLT	2400L	Medical Microbiology Lab .....	1 credit
MLT	2625	Clinical Chemistry.....	5 credits
MLT	2625L	Clinical Chemistry Lab .....	1 credit
MLT	2807L	Immunoematology Clinical Practicum .....	3 credits
MLT	2809L	Hematology Clinical Practicum .....	3 credits
MLT	2810L	Clinical Chemistry Practicum.....	3 credits
MLT	2811L	Microbiology Clinical Practicum.....	3 credits
MLT	2931	MLT Review for the State Exam .....	2 credits
*MAT	1033	Intermediate Algebra.....	3 credits

All core curriculum and natural science courses require a grade of "C" or higher.

### **NURSING ASSOCIATE DEGREE – R.N. 20670 - 72 CREDITS (SELECTIVE ADMISSION)**

Students accepted into the A.S. Degree Nursing program receive a solid general education as well as a strong foundation in nursing. Students are advised to take as many of the required General Education courses as possible before entering the program. Upon completion of the program, nursing students will be granted an A.S. Degree and will be eligible to apply for National Council Licensure Examinations for Registered Nurses (NCLEX-RN). An advanced placement option is available for qualified Licensed Practical Nurses, Paramedics, and Registered Respiratory Therapists.

**GENERAL EDUCATION** – \*may be taken prior to acceptance into the program or must be completed while enrolled in the program.

\*Humanities/Fine Arts

ENC 1101 and ENC 1102 or ENC 1107 .....

6 credits

\*Natural Science/Mathematics

BSC 2093 and BSC 2093L, BSC 2094 and BSC 2094L,

MCB 2010 and MCB 2010L.....

12 credits

\*Social/Behavioral Science

PSY 2012, SYG 2000 .....

6 credits

#### **MAJOR FIELD REQUIRED COURSES - 48 credits**

NUR 1020C Nursing Fundamentals.....

8 credits

\*\*\*NUR1006C Transition to Professional Nursing .....

9 credits

or

NUR 2264C Adult Nursing GI & Respiratory.....

4 credits

and

NUR 2217C Adult Nursing GU & Endocrine.....

5 credits

NUR 2310C Pediatric Nursing with Lab.....

5 credits

or

\*\*\*NUR1304 Transition Pediatrics.....

4 credits

and

***NUR1304L	Transition Lab Pediatrics .....	1 credit
NUR 2420C	Maternity Nursing with Lab.....	4 credits
or		
***NUR1404	Transition Maternity .....	3 credits
and		
***NUR1404L	Transition Maternity Lab .....	1 credit
NUR 2242	Advanced Adult Nursing.....	5 credits
NUR 2520C	Psychiatric Mental Health Nursing with Lab.....	5 credits
NUR 1142	Selected Topics in Medication Administration .....	1 credit
NUR 2811L	Nursing Practicum.....	5 credits
**DEP 2004	Human Development .....	3 credits
**HUN 1201	Nutrition .....	3 credits

Upon acceptance, a complete health screen, drug screen and Florida Department of Law Enforcement check are required. All core curriculum (NUR prefix) and English, and natural science courses require a grade of "C" or higher. Priority consideration for admission to the program will be given to those who have completed Anatomy and Physiology I and corequisite lab prior to application deadline. Anatomy and Physiology I and corequisite lab must be completed prior to NUR 1020C. Anatomy and Physiology II and corequisite lab must be completed by the end of the first semester, first year. Microbiology and corequisite lab must be completed by the end of the second semester, first year.

\*General Education classes may be taken prior to acceptance into the program or they must be completed while enrolled in the program. All nursing and General Education courses must be completed prior to the beginning of Nursing Practicum (NUR 2811L).

\*\*These classes may be taken prior to acceptance into the program. DEP 2004 must be completed prior to the beginning of Pediatric Nursing (NUR 2310C). HUN 1201 must be completed prior to the beginning of Maternity Nursing (NUR 2420C).

\*\*\*These courses are Selective Admission only. Students are required to obtain permission from the Nursing Department to register.

## ADVANCED TECHNICAL CERTIFICATES

The State of Florida has established the Advanced Technical Certificate program. This program of instruction consists of college level courses which may be awarded to students who have already received an Associate in Science Degree and are seeking an advanced specialized planned program of study to supplement their A. S. Degree.

### PERIOPERATIVE NURSING 40080 - 9 CREDITS

These courses in the Advanced Technical Certificate option provide the registered nurse with current information regarding the role of the perioperative nurse. Clinical experiences utilizing updated equipment and medications in the perioperative setting are included. A minimum of two years working as an R.N. is recommended.

#### MAJOR FIELD REQUIRED COURSES - 9 credits

NSP 2290	Perioperative Nursing.....	6 credits
NSP 2290L	Perioperative Nursing Practicum.....	3 credits

## PARALEGAL STUDIES/LEGAL ASSISTING

### 20640 - 64 CREDITS

This program is designed for students seeking a career in a law-related field as a paraprofessional and for legal secretaries presently employed who wish to advance in their work. Upon successful completion, a student will be prepared to work under the supervision of an attorney and perform many vital functions as a legal assistant. A legal assistant may not practice law, give advice, or collect fees. Legal assistants work in law firms, legal departments of major corporations, governmental agencies (local, state, and federal), real estate departments of large businesses, title companies, trust departments of banks, brokerage houses, and insurance companies. Students are eligible to take the National Association of Legal Assistants certification exam upon completion.

#### GENERAL EDUCATION

##### Humanities/Fine Arts

ENC 1101 and ENC 1102 or ENC 1107 ..... 6 credits

##### Natural Science/Mathematics

see page 146..... 3 credits

##### Social/Behavioral Science

see page 146..... 3 credits

##### Humanities/Fine Arts, Natural Science/Mathematics

##### or Social/Behavioral Science

see pages 145 -146 ..... 3 credits

#### MAJOR FIELD REQUIRED COURSES - 24 credits

PLA 1104 Legal Research & Writing I..... 3 credits

PLA 1610 Real Estate & Property Law ..... 3 credits

PLA 2003 Introduction to Paralegal Studies..... 3 credits

PLA 2058 Survey of Law..... 3 credits

PLA 2114 Legal Research & Writing II..... 3 credits

PLA 2203 Civil Litigation I ..... 3 credits

PLA 2223 Civil Litigation II ..... 3 credits

PLA 2433 Corporate & Business Law..... 3 credits

#### MAJOR FIELD ELECTIVES - Select 25 credits

OST 1713 Microsoft Word ..... 3 credits  
or

OST 1766 WordPerfect I ..... 3 credits

ACG 2001 Financial Accounting I ..... 3 credits

CJL 2062 Constitutional Law..... 3 credits

CJL 2100 Criminal Law ..... 3 credits

CGS 1130 Electronic Access to Legal Resources..... 1 credit

CGS 1060 College Computing..... 3 credits

PLA 1763 Law Office Management ..... 3 credits

PLA 1931 Special Topics in Law ..... 1 credit

PLA 2273 Torts ..... 3 credits

PLA 2423 Contracts..... 3 credits

PLA	2460	Bankruptcy Law .....	3 credits
PLA	2483	Administrative Law .....	3 credits
PLA	2600	Estate Planning & Probate Administration .....	3 credits
PLA	2661	Federal Estate & Gift Tax .....	3 credits
PLA	2800	Family Law .....	3 credits
PLA	2949	Internship in Paralegal Studies .....	4 credits
LIS	1002	Electronic Access to Information.....	1 credit
LIS	2004	Introduction to Internet Research .....	1 credit
LIS	2005	Advanced Electronic Access to Information .....	3 credits

**PHYSICAL THERAPIST ASSISTANT - 20690**  
**74 CREDITS (SELECTIVE ADMISSION)**

The Physical Therapist Assistant (PTA) program is an integrated curriculum of class lecture, lab, and clinical education in a variety of health care settings. Completion of the A.S. Degree program prepares the PTA to perform physical therapy procedures and related tasks under the supervision of a Physical Therapist. Graduates are eligible to take the National Physical Therapist Assistant Examination and upon satisfactory achievement, become licensed Physical Therapist Assistants. The Physical Therapist Assistant program at IRSC is accredited by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association.

**GENERAL EDUCATION** – \*may be taken prior to acceptance into the program or must be completed while enrolled in the program.

\*Humanities/Fine Arts

ENC 1101.....	3 credits
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\*\*Natural Science/Mathematics

PHY 1020, BSC 2093, BSC 2093L, BSC 2094, BSC 2094L .....	11 credits
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Social/Behavioral Sciences

PSY 2012 .....	3 credits
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**MAJOR FIELD REQUIRED COURSES - 57 credits**

PHT 1351	General Pharmacology-PTA.....	1 credit
*HSC 2531	Medical Terminology I .....	3 credits
*HUN 1201	Nutrition .....	3 credits
*CGS 1060	College Computing .....	3 credits
*MAT 1033	Intermediate Algebra.....	3 credits
PHT 1004	Introduction to Physical Therapy .....	2 credits
PHT 1004L	Introduction to Physical Therapy Lab .....	2 credits
PHT 1121	Functional Anatomy & Kinesiology .....	3 credits
PHT 1121L	Functional Anatomy & Kinesiology Lab.....	2 credits
PHT 1211	Disabilities & Therapeutic Procedures I.....	2 credits
PHT 1211L	Disabilities & Therapeutic Procedures I Lab .....	2 credits
PHT 1300	Survey of Pathological Deficits .....	3 credits
PHT 1801	Clinical Practice I.....	2 credits
PHT 2162	Survey of Neurological Deficits.....	3 credits
PHT 2224	Disabilities & Therapeutic Procedures II.....	2 credits

**RESTAURANT MANAGEMENT**  
**A0090 - 64 CREDITS**  
**ASSOCIATE IN APPLIED SCIENCE DEGREE**

A strong foundation in the foods and nutrition field coupled with a broad base of general academics is provided by this program. This course of study offers students the opportunity to gain field experience and practical knowledge through “hands-on” activities. With this major, one can select many productive employment possibilities from a variety of career fields such as the food processing industry, institutional food service management, and restaurant management. In addition, the **Culinary Institute of the Treasure Coast** curriculum is found within this degree.

**GENERAL EDUCATION**

## Humanities/Fine Arts

ENC 1101..... 3 credits

## Natural Science/Mathematics

MAT 1033..... 3 credits

## Social/Behavioral Science

see page 146..... 3 credits

Humanities/Fine Arts or Natural Science/Mathematics  
or Social/Behavioral Science

see pages 145 - 146 ..... 6 credits

**MAJOR FIELD REQUIRED COURSES - 21 credits**

FOS 2201 Sanitation &amp; Safety ..... 3 credits

FSS 2221C Food Preparation I..... 3 credits

FSS 2222C Food Preparation II..... 3 credits

FSS 2063C Quantity Baking ..... 3 credits

FSS 2300 Food Service Supervision &amp; Management ..... 3 credits

FSS 2401 Use &amp; Care of Kitchen Equipment ..... 3 credits

HUN 1203 Culinary Nutrition ..... 3 credits

**SUGGESTED SPECIALIZATION ELECTIVES - Select 28 credits****COMMERCIAL CULINARY ARTS**

\*FSS 2206 Quantity Food Production ..... 4 credits

\*FSS 2248C Pantry &amp; Gard-Manger I ..... 4 credits

\*FSS 2500 Food/Beverage Cost Control/Purchasing..... 4 credits

**INSTITUTIONAL FOOD SERVICE**

FSS 2303 Food Service Practicum I..... 4 credits

FSS 2304 Food Service Practicum II..... 4 credits

FSS 2305 Food Service Practicum III..... 4 credits

FSS 2306 Food Service Practicum IV..... 4 credits

**MAJOR FIELD ELECTIVES**

APA 1111 Introduction to Accounting..... 3 credits

CGS 1000 Introduction to Computer Usage ..... 3 credits

\*CGS 1100 Introduction to Computer Applications-Business..... 3 credits

HUN	1203	Culinary Nutrition .....	3 credits
FSS	1930	Creative Culinary Cooking.....	½ - 3 credits
*FSS	2263	Food Merchandising & Service .....	3 credits
*FSS	2284C	Food Services Special.....	3 credits
*GEB	1011	Introduction to Business.....	3 credits
GEB	1931	Introduction to Business Technology .....	3 credits
HUN	1410	Basic Childhood Nutrition .....	3 credits
MAN	2021	Principles of Management.....	3 credits
MAR	2011	Principles of Marketing .....	3 credits
*MKA	1303	Mid-Mgmt Seminar & Supervised Exp l .....	4 credits
MNA	2100	Interpersonal Relations in Business .....	3 credits
MNA	2345	Supervision.....	3 credits
SLS	1421	Personal & Career Development.....	3 credits

\*In addition to General Education and Major Field Required courses, suggested specialized electives with asterisks are required for the **Culinary Institute of the Treasure Coast**.

## THEATRE AND ENTERTAINMENT TECHNOLOGY

### 20720 - 64 CREDITS

This degree prepares the student for a career in technical theatre and/or technical support for related live entertainment. The curriculum offers the conceptual and technological skills and experience required for jobs such as stage technician, sound technician, lighting technician, costume technician, stage manager, scenic carpenter, stage crew, and theatre maintenance technician. This degree also provides the entry-level skills and experience for technical support positions in the film/television/theme park industries.

#### GENERAL EDUCATION

Humanities/Fine Arts

ENC 1101 and THE 1000..... 6 credits

Natural Science/Mathematics

see page 146..... 3 credits

Social/Behavioral Science

see page 146..... 3 credits

Humanities/Fine Arts or Natural Science/Mathematics

or Social/Behavioral Science

ARH 2050, HUM 1533, HUM 2512 recommended ..... 3 credits

#### MAJOR FIELD REQUIRED COURSES - 42 credits

CGS 1100 Intro to Computer Applications for Business.....3 credits

or

CGS 1060 College Computing..... 3 credits

BCN 1250 Architectural Drafting Principles..... 3 credits

MNA 2345 Supervision..... 3 credits

TPA 1200 Beginning Stagecraft ..... 3 credits

TPA	1208	Drafting for the Stage .....	3 credits
TPA	1211	Stagecraft II .....	3 credits
TPA	1230	Theatre Costuming I.....	3 credits
TPA	1248	Stage Makeup .....	3 credits
TPA	2220	Introduction to Stage Lighting .....	3 credits
TPA	2221	Advanced Stage Lighting .....	3 credits
TPA	2252	Introduction to Audio Visual Technology .....	3 credits
TPA	2260	Sound for the Stage .....	3 credits
TPA	2282	Theatre Equipment Maintenance .....	2 credits
TPA	2290	Technical Theatre .....	4 semesters x 1 credit

**MAJOR FIELD ELECTIVES - 7 credits**

ART	1201C	Color & Design I.....	3 credits
DAA	1500	Jazz Dance .....	2 credits
EET	1215C	Introduction to Electronics.....	3 credits
ETD	1320	Introduction to AutoCAD.....	3 credits
DIG	2302	3D Digital Animation I .....	3 credits
FIL	1030	History of Film.....	3 credits
TPA	1272	Beginning Rigging.....	1 credit
TPP	1110	Acting .....	3 credits
TPP	1190	Rehearsal & Performance Lab I .....	1 credit



## CAREER TRAINING PROGRAMS

ADMINISTRATIVE ASSISTANT  
AIR CONDITIONING, REFRIGERATION  
& HEATING APPRENTICESHIP  
AIR CONDITIONING, REFRIGERATION  
& HEATING TECHNOLOGY I  
AIR CONDITIONING, REFRIGERATION  
& HEATING TECHNOLOGY II  
AIRCRAFT AIRFRAME MECHANICS  
AUTOMOTIVE COLLISION REPAIR  
AND REFINISHING  
AUTOMOTIVE SERVICE TECHNOLOGY I  
AUTOMOTIVE SERVICE TECHNOLOGY II  
AUXILIARY LAW ENFORCEMENT  
OFFICER  
BARBERING  
CARPENTRY  
CENTRAL SERVICE TECHNOLOGY  
COMMERCIAL HEATING & AIR  
CONDITIONING  
COMMERCIAL REFRIGERATION  
TECHNOLOGY  
COMMERCIAL VEHICLE DRIVING  
CORRECTIONAL OFFICER - BASIC  
RECRUIT TRAINING  
CORRECTIONAL OFFICER CROSSOVER  
FROM LAW ENFORCEMENT OFFICER  
COSMETOLOGY  
COSMETOLOGY SPECIALIST - FACIALS  
COSMETOLOGY SPECIALIST - NAILS  
CULINARY OPERATIONS  
DIETETIC MANAGEMENT &  
SUPERVISION  
DIVERSIFIED CAREER TECHNOLOGY  
EARLY CHILDHOOD EDUCATION  
ELECTRICAL APPRENTICESHIP  
ENVIRONMENTAL SERVICES TRAINING  
FIREFIGHTING - BASIC RECRUIT  
TRAINING  
HEALTH UNIT COORDINATOR  
HEAVY EQUIPMENT OPERATIONS  
LAW ENFORCEMENT - BASIC RECRUIT  
TRAINING  
LAW ENFORCEMENT OFFICER  
CROSSOVER FROM CORRECTIONAL  
OFFICER  
LEGAL ADMINISTRATIVE SPECIALIST  
LINE ERECTOR APPRENTICESHIP  
MASONRY APPRENTICESHIP  
MEDICAL ASSISTING  
MEDICAL ADMINISTRATIVE SPECIALIST  
PARENTING  
PATIENT CARE ASSISTANT  
PHARMACY TECHNICIAN  
PHLEBOTOMY  
PLUMBING APPRENTICESHIP  
PRACTICAL NURSING  
PRECISION METAL FABRICATION  
PRIVATE SECURITY OFFICER  
PUBLIC SAFETY TELECOMMUNICATION  
SMALL ENGINE REPAIR  
SUPPORTED COMPETITIVE  
EMPLOYMENT FOR ADULTS  
WITH DISABILITIES  
SURGICAL TECHNOLOGY  
TRAVEL AGENCY OPERATIONS  
VOCATIONAL EDUCATION FOR  
STUDENTS WITH DISABILITIES  
WELDING TECHNOLOGY (APPLIED)

## CAREER TRAINING PROGRAMS

**CAREER TRAINING PROGRAMS**

A Career Training Program emphasizes specific skill development and is designed to lead to licensure or certification. Upon completion of a required number of hours in a combination of classroom and lab instruction, a student is well-prepared to enter the chosen career field.

Since many Selective Admissions Programs have special deadlines and admissions criteria, applicants to Selective Admission Programs should consult with an IRSC counselor/advisor well before the intended term of enrollment. Florida Statutes require students in Technical Certificate Programs that have 450 hours or more to pass the Basic Skills Requirement, except for those students who meet the state standards for an exemption. **Please note:** The Program Code required for the IRSC Application for Admission is the five digit number following the Program Title.

**ADMINISTRATIVE ASSISTANT - 50280**  
(1050 clock hours)

This program offers students a broad foundation of knowledge and skills expanding the traditional role of Administrative Assistant. The content includes the use of technology to develop communication and decision making skills; the performance of office procedures tasks; and the production of quality work in an efficient manner using advanced features of business software applications. The program focuses on broad, transferable skills, stresses understanding of the elements of the office support services industry, and includes an on-the-job training component. The program is offered in an open entry/open exit, self-paced, individualized format.

**REQUIRED PROGRAM:**

OTA	V005	Office Skills Training I .....	75 hours
OTA	V006	Office Skills Training II .....	75 hours
OTA	V001	Office Support Technology I .....	75 hours
OTA	V002	Office Support Technology II .....	75 hours
OTA	V100	Data Entry I .....	75 hours
OTA	V425	Data Entry II .....	75 hours
OTA	V031	Computer Applications I .....	75 hours
OTA	V032	Computer Applications II .....	75 hours
OCA	V312	Office Communications I .....	75 hours
OCA	V313	Office Communications II .....	75 hours
OTA	V948	Business Cooperation Education I - OJT .....	150 hours
OTA	V949	Business Cooperation Education II - OJT .....	150 hours

**AIR CONDITIONING, REFRIGERATION, AND HEATING APPRENTICESHIP - 50010** (8400 clock hours)

This program is offered in partnership with State of Florida registered apprenticeship sponsors and prepares students for advancement in the air-conditioning, refrigeration, and heating trades. The program utilizes a cooperative method of instruction, requiring on-the-job training for which the student receives compensation, and classroom instruction.

AER	V418	Automotive Brake System Technician .....	150 hours
AER	V453	Automotive Suspension & Steering Tech .....	150 hours
AER	V110	Engine Repair Technician .....	150 hours

**AUTOMOTIVE SERVICE TECHNOLOGY II - 50710**

**(750 clock hours)**

This program provides advanced training in the automotive service industry and supplemental training for persons previously or currently employed in the automotive industry.

**REQUIRED PROGRAM:**

AER	V172	Auto Heat/Air Condition Tech .....	150 hours
AER	V257	Automatic Trans/Transaxle Tech .....	150 hours
AER	V274	Manual Drive Train/Axle Tech.....	150 hours
AER	V891	Auto Engine Performance Tech 1 .....	150 hours
AER	V892	Auto Engine Performance Tech 2 .....	150 hours

**AUXILIARY LAW ENFORCEMENT OFFICER - 50040**

**(319 clock hours – SELECTIVE ADMISSION)**

This program provides training to students seeking positions as auxiliary law enforcement officers within law enforcement agencies. Law enforcement auxiliary officers supplement an agency work force and provide personnel for special assignment activities and details. The auxiliary officer does not have arrest powers or responsibility for care, custody or control of individuals while performing their tasks. The Florida Department of Law Enforcement, Criminal Justice Standards and Training Commission establishes the curriculum. Unlike most law enforcement positions, a licensure examination is not required for certification by this agency to perform this job.

**REQUIRED PROGRAM:**

CJK	V240	Law Enforcement Auxiliary Introduction .....	27 hours
CJK	V241	Law Enforcement Auxiliary Patrol and Traffic .....	19 hours
CJK	V242	Law Enforcement Auxiliary Investigations .....	17 hours
CJK	V422	Dart-firing Stun Gun .....	8 hours
CJK	V031	CMS First Aid for Criminal Justice Officers .....	40 hours
CJK	V040C	CMS Weapons .....	80 hours
CJK	V051	Defensive Tactics.....	80 hours
CJK	V020C	CMS Vehicle Operations .....	48 hours

**BARBERING - 50410**

**(1200 clock hours)**

Upon successful completion, this program enables students to sit for the State Barber licensing exam.

**REQUIRED PROGRAM:**

COS	V500C	Introduction to Barbering.....	150 hours
COS	V510C	Barber Styling .....	150 hours
COS	V351C	Haircutting, Mustache and Beard Design.....	150 hours
COS	V350C	Shaving .....	150 hours
CSP	V240C	Anatomy & Physiology for Barbers .....	150 hours

COS	V700C	Chemistry of Haircoloring for Barbers.....	150 hours
COS	V530C	Chemical Processes of Hair.....	150 hours
COS	V070C	Job Prep, Florida Law & State Board Review/Barbers.....	150 hours

**CARPENTRY - 50060**

**(1200 clock hours)**

This is a 1200-clock hour program in Residential Carpentry. Training activities include instruction in safety, and the processes found in the trade. This hands-on program is offered in partnership with Treasure Coast Builder’s Association and prepares high-quality, entry level carpenters for the building construction industry.

**REQUIRED PROGRAM:**

BCV	V131	Residential Carpentry I .....	300 hours
BCV	V132	Residential Carpentry II .....	300 hours
BCV	V133	Residential Carpentry III .....	450 hours
BCV	V949	Carpentry Practicum .....	150 hours

**ELECTIVE:**

BCV	V230	Cabinet Making .....	45 hours
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**CENTRAL SERVICE TECHNOLOGY - 50620**

**(500 clock hours – SELECTIVE ADMISSION)**

This program is designed to prepare students for employment as and supervisory positions in (but not limited to) surgical sterile central services, central supply, stocking clerks, stock rooms, clerks, order fillers, warehouse, and sterilizer areas. The program is focused on these functions within hospitals and related facilities. Students who complete this certificate program are eligible to sit for national and international exams that recognize expertise areas and supervisory skills.

**REQUIRED PROGRAM:**

HSC	V003	Introduction to Health Care .....	82 hours
HSC	V405	Cardiopulmonary Resuscitation .....	8 hours
HSC	V431C	Central Service Technology Theory .....	205 hours
HSC	V811L*	Central Service Technology Practicum.....	100 - 205 hours

\*Students may earn competency credit up to 100 hours of Practicum depending upon current employment and verified documentation of knowledge and skills.

**COMMERCIAL HEATING AND AIR CONDITIONING - 50090**

**(1350 clock hours)**

This is an open-entry program which allows students to register any time during the semester. Upon successful completion of the program, students can enter the workforce as Heating, Air Conditioning, and Refrigeration Mechanic Assistants, with emphasis in Commercial Heating and Air Conditioning.

**REQUIRED PROGRAM:**

**Both**

ACR	V523	Basic Air Conditioning I .....	150 hours
and			
ACR	V100	Basic Air Conditioning II .....	150 hours

or

ACR	V520	Basic Air Conditioning Certification.....	300 hours
with			
ACR	V984	A/C Applications I.....	75 hours
ACR	V985	A/C Applications II.....	75 hours
ACR	V525	Basic Air Conditioning III.....	150 hours
ACR	V548	Basic Air Conditioning IV.....	150 hours
ACR	V607	Basic Air Conditioning V.....	150 hours
ACR	V701	Basic Air Conditioning VI.....	150 hours
ACR	V571	Commercial Heating & Air Conditioning I.....	150 hours
ACR	V578	Commercial Heating & Air Conditioning II.....	150 hours

**ELECTIVE:**

ACR	V930	Special Topics in HVAC.....	15 - 150 hours
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**COMMERCIAL REFRIGERATION TECHNOLOGY - 50100**

**(1350 clock hours)**

This is an open-entry program which allows students to register any time during the semester. Upon successful completion of the program, students can enter the workforce as Heating, Air Conditioning, and Refrigeration Mechanic Assistants, with emphasis in Commercial Refrigeration.

**REQUIRED PROGRAM:**

**Both**

ACR	V523	Basic Air Conditioning I.....	150 hours
and			
ACR	V100	Basic Air Conditioning II.....	150 hours
or			
ACR	V520	Basic Air Conditioning Certification.....	300 hours
with			
ACR	V984	A/C Applications I.....	75 hours
ACR	V985	A/C Applications II.....	75 hours
ACR	V525	Basic Air Conditioning III.....	150 hours
ACR	V548	Basic Air Conditioning IV.....	150 hours
ACR	V607	Basic Air Conditioning V.....	150 hours
ACR	V701	Basic Air Conditioning VI.....	150 hours
ACR	V573	Commercial Refrigeration I.....	150 hours
ACR	V584	Commercial Refrigeration II.....	150 hours

**COMMERCIAL VEHICLE DRIVING - 50110**

**(320 clock hours)**

This program prepares students for employment as commercial truck drivers. In addition to classroom instruction, students receive over 1,000 miles of supervised on-the-road driver training.

**REQUIRED PROGRAM:**

TRA	V081	Commercial Vehicle Driving.....	160 hours
TRA	V083	OJT-Commercial Vehicle Driving.....	160 hours

**CORRECTIONAL OFFICER - BASIC RECRUIT TRAINING - 50120**

(552 clock hours – SELECTIVE ADMISSION)

The Corrections Basic Recruit Training prepares students as entry level Corrections Officers in the State of Florida. Practical skills and simulated activities compliment the classroom instruction. Upon successful completion, students are eligible to take the Florida Department of Law Enforcement State Certification Examination. This minimum standard class is regulated by Florida Statutes and is a highly structured and disciplined program with special rules, policies, and procedures.

**REQUIRED PROGRAM:**

CJK	V270	Criminal Justice Legal I .....	46 hours
CJK	V285	Criminal Justice Legal II .....	22 hours
CJK	V286	Criminal Justice Communications.....	42 hours
CJK	V100	Interpersonal Skills I-Corrections .....	62 hours
CJK	V101	Interpersonal Skills II .....	50 hours
CJK	V051	Defensive Tactics.....	80 hours
CJK	V040C	Criminal Justice Weapons.....	80 hours
CJK	V031	First Aid for Criminal Justice Officers .....	40 hours
CJK	V480	Emergency Preparedness.....	26 hours
CJK	V102	Correctional Operations.....	64 hours
CJK	V280	Criminal Justice Officer Physical Fitness Training .....	40 hours

**CORRECTIONAL OFFICER CROSSOVER FROM  
LAW ENFORCEMENT OFFICER - 50440**

(199 CLOCK HOURS – SELECTIVE ADMISSION)

This program prepares the Florida certified Law Enforcement Officer for certification as a Correctional Officer in the State of Florida as mandated by the Criminal Justice Standards and Training Commission. The training program focuses on the skills and techniques specifically related to the duties and responsibilities of the Correctional Officer. Upon successful completion, students are eligible to take the Florida Department of Law Enforcement State Certification Examination.

**REQUIRED PROGRAM:**

CJK	V204	L.E. Crossover to Correctional Introduction .....	59 hours
CJK	V101	Interpersonal Skills II .....	50 hours
CJK	V480	Emergency Preparedness.....	26 hours
CJK	V102	Correctional Operations.....	64 hours

**COSMETOLOGY - 50140**

(1200 clock hours)

Upon successful completion, this program enables students to sit for the state cosmetology licensing exam.

**REQUIRED PROGRAM:**

COS	V080	Introduction to Cosmetology .....	150 hours
COS	V081	Hairstyling .....	150 hours
COS	V082	Facials, Manicuring and Pedicuring.....	150 hours
COS	V083	Haircutting .....	150 hours

COS	V084	Anatomy & Physiology for Cosmetology .....	150 hours
COS	V085	Chemistry of Haircoloring Process .....	150 hours
COS	V086	Chemistry of Chemical Processes of Hair.....	150 hours
COS	V087	Job Prep, Florida Law and State Board Review.....	150 hours

**COSMETOLOGY SPECIALIST - FACIALS - 50150**  
(260 clock hours)

**REQUIRED PROGRAM:**

CSP	V100	Esthetics .....	260 hours
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**COSMETOLOGY SPECIALIST - NAILS - 50160**  
(240 clock hours)

**REQUIRED PROGRAM:**

CSP	V010	Manicure, Pedicure, Nail Extensions I .....	120 hours
CSP	V011	Manicure, Pedicure, Nail Extensions II .....	120 hours

**CULINARY OPERATIONS - 50080**  
(6336 clock hours)

This program is an in-depth study intended to prepare the student for all aspects of food service, including cooking and baking techniques, nutrition guidelines, and sanitation principles. National culinary standards will be incorporated into on-the-job training and classroom instruction.

**REQUIRED PROGRAM:**

HMV	V940	Apprenticeship - Culinary Arts Introduction .....	96 hours
HMV	V947	Apprenticeship - Culinary Equipment Operations .....	96 hours
HMV	V944	Apprenticeship - Culinary Arts Nutrition Principles .....	96 hours
HMV	V945	Apprenticeship - Culinary Arts Cost Control.....	96 hours
HMV	V946	Apprenticeship - Culinary Arts Specialty Techniques.....	96 hours
HMV	V948	Culinary Arts Mgmt & Entrepreneurship.....	96 hours
HMV	V943*	Apprenticeship - Culinary Arts - OJT .....	640 hours

\*This course is repeated nine (9) times throughout the program to document the on-the-job requirement for apprentices.

**DIETETIC MANAGEMENT AND SUPERVISION - 50180**  
(450 clock hours)

This 450-clock hour program is recognized by the Dietary Managers Association as a certified Dietary Managers Program. This program prepares the student for employment in institutions such as hospitals.

**REQUIRED PROGRAM:**

DIE	V101	Introduction to Dietary Management.....	225 hours
DIE	V200	Diet Therapy for Managers .....	225 hours

**DIVERSIFIED CAREER TECHNOLOGY – 50600**  
(1200 clock hours)

This program provides students with selected occupational skills through employment related instruction and paid, on-the-job training supervised by an employer and a

teacher/coordinator. Employment related classroom instruction leads to competencies in health, safety, and environmental issues; professional, legal, and ethical issues; finance, leadership, communication, labor and human resources, economics, entrepreneurship, career planning, technology, management, and technical and production skills. The combination of classroom and on-the-job training allows students to develop a variety of workplace competencies and transferable skills as well as developing students who will be motivated, self-disciplined individuals; caring, responsible, life-long learners; flexible and committed to technical competencies; and skillful at social interactions, leadership, and problem-solving.

**REQUIRED PROGRAM:**

VPI	V523	Work Certified .....	90 hours
VPI	V940	Diversified Career Technology OJT .....	210 hours
VPI	V403	Diversified Career Technology Applications.....	300 hours
VPI	V404	Diversified Career Technology Management.....	600 hours

**EARLY CHILDHOOD EDUCATION - 50190**  
(600 clock hours)

The Early Childhood Education Program focuses on broad, transferable skills and stresses understanding and demonstration of the following elements of the Early Childhood industry: planning, management, technical skills, community issues, health issues, safety practices, environmental issues, and developmentally appropriate practices for children.

**REQUIRED PROGRAM:**

**Option One:**

HEV	V110	Early Childhood Education I.....	150 hours
HEV	V130	Early Childhood Education II.....	150 hours
HEV	V137	Early Childhood Education III.....	150 hours
HEV	V158	Early Childhood Education IV.....	150 hours

**Option Two:**

**Required:**

HEV	V110	Early Childhood Education I.....	110 hours
HEV	V130	Early Childhood Education II.....	150 hours
HEV	V137	Early Childhood Education III.....	150 hours
HEV	V158	Early Childhood Education IV.....	150 hours

**and select 30 hours from:**

HEV	V118	Family Day Care Workers Training.....	30 hours
or			
HEV	V115	30-hour Statewide Childcare Training.....	30 hours
or			
HEV	V132	Child Growth & Development .....	6 hours
HEV	V166	Health, Safety & Nutrition.....	8 hours
HEV	V181	Behavioral Observing & Screening.....	6 hours
HEV	V199	Identifying Child Abuse & Neglect.....	4 hours

**and select one:**

HEV	V805	Rules & Regulations.....	6 hours
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or

HEV V806 Family Child Care Rules and Regulations..... 6 hours

**and select one:**

HEV V116 Introduction to Preschool Practices..... 10 hours

HEV V126 Special Needs..... 10 hours

HEV V159 Train the Trainer-Child Care ..... 10 hours

HEV V171 Develop Appropriate Practices-Infants & Toddlers..... 10 hours

HEV V195 School Age Children ..... 10 hours

**ELECTRICAL APPRENTICESHIP - 50200**

**(8400 clock hours)**

This program is delivered in partnership with State of Florida registered apprenticeship sponsors, and prepares students for advancement as residential or commercial electricians in the construction industry. The program utilizes a cooperative method of learning, requiring on-the-job training and classroom instruction, providing the student with theoretical and practical skills necessary in the electrical trades.

**REQUIRED PROGRAM:**

BCA V001 Introduction to Building Trade Apprenticeship.....36 hours

or

BCA V302 Building Trades Apprenticeship..... 54 hours

BCA V350 Apprenticeship-Electrical 1..... 90 hours

BCA V351 Apprenticeship-Electrical 2..... 90 hours

BCA V352 Apprenticeship-Electrical 3..... 90 hours

BCA V353 Apprenticeship-Electrical 4..... 90 hours

BCA V354 Apprenticeship-Electrical 5..... 90 hours

BCA V355 Apprenticeship-Electrical 6..... 90 hours

BCA V356 Apprenticeship-Electrical 7 ..... 90 hours

BCA V357 Apprenticeship-Electrical 8..... 90 hours

BCA V349\* Apprenticeship-Electrical OJT .....592 - 640 hours

\*This course is repeated twelve (12) times throughout the program to document the on-the-job requirement for apprentices.

**ELECTIVE:**

BCA V001 Introduction to Building Trades Apprenticeship..... 36 hours

BCA V302 Building Trades Apprenticeship-Electrical ..... 54 hours

**ENVIRONMENTAL SERVICES TRAINING - 50210**

**(300 clock hours)**

This program prepares participants for employment in the housekeeping/custodial industry. Through hands-on training in all aspects of the trade, participants benefit from the use of industry equipment and are introduced to industry standards and employment options.

**REQUIRED PROGRAM:**

HMV V949 Environmental Services Training I ..... 150 hours

HMV V960 Environmental Services Training II..... 150 hours

**FIREFIGHTING - BASIC RECRUIT TRAINING - 50220**

**(450 clock hours – SELECTIVE ADMISSION)**

Basic Fire Recruit Training is offered during the Fall, Spring, and Summer semesters. This program meets the minimum educational requirements for an individual to be a certified combat firefighter in the State of Florida. Upon successful completion of this training program, the student is eligible to take the state written and practical examination administered by the Bureau of Fire Standards and Training. Prior to admission, students must complete the Emergency Medical Technician or Paramedic training program.

**REQUIRED PROGRAM:**

FFP	V010	Firefighting Academy I.....	225 hours
FFP	V020	Firefighting Academy II.....	225 hours

**HEAVY EQUIPMENT OPERATIONS – 50590**

**(1200 clock hours)**

This program prepares students for advanced training in the heavy equipment industry and for those interested in a career as a heavy equipment operator. This program focuses on broad, transferable skills, stressing the understanding and demonstration of all aspects of the heavy equipment industry such as planning, management, finance, technical and product skills, underlying principles of technology, labor issues, community issues and health, safety, and environmental issues.

**MAJOR FIELD REQUIRED COURSES (600 Hours)**

AEB	V030	Auto Leveling Procedures for Surveying.....	100 hours
AEB	V033	Boom Mowing Operations.....	100 hours
AEB	V035	Rubber Tire Loader.....	90 hours
AEB	V036	Street Sweeper Operator .....	100 hours
AEB	V038	Public Works Operation I.....	120 hours
AEB	V042	Dump Truck Operations .....	90 hours

**MAJOR FIELD ELECTIVES (Select 600 hours)**

AEB	V031	Back Hoe Loader Operations .....	140 hours
AEB	V032	Badger Operations .....	200 hours
AEB	V034	Dozer Operations .....	100 hours
AEB	V037	Swamp Meister Operations (Drow Excavator) .....	200 hours
AEB	V039	Fork Lift Operations.....	20 hours
AEB	V040	Box Blade Operations .....	60 hours
AEB	V041	Computerized Sign Layout.....	50 hours
AEB	V043	Mulcher Mower Operations .....	100 hours

**LAW ENFORCEMENT - BASIC RECRUIT TRAINING - 50250**

**(770 clock hours – SELECTIVE ADMISSION)**

Law Enforcement Basic Recruit Training prepares students as entry level law enforcement officers in the State of Florida. Practical skills and simulated activities compliment the classroom instruction. Upon successful completion, students are eligible to take the Florida Department of Law Enforcement State Certification Examination. This

**MASONRY APPRENTICESHIP - 50560****(6000 clock hours)**

This program is delivered in partnership with State of Florida registered apprenticeship sponsors, and prepares students for advancement in the masonry industry. The program utilizes a cooperative method of learning, requiring on-the-job training and classroom instruction, providing the student with theoretical and practical skills necessary in the masonry trades.

**REQUIRED PROGRAM:**

BCA	V150	Masonry I .....	80 hours
BCA	V151	Masonry II .....	80 hours
BCA	V152	Masonry III .....	80 hours
BCA	V153	Masonry IV .....	80 hours
BCA	V154	Masonry V .....	80 hours
BCA	V155	Masonry VI .....	80 hours
BCA	V160*	Apprenticeship-Masonry OJT .....	600-640 hours

\*This course is repeated nine (9) times throughout the program to document the on-the-job requirement for apprentices.

**MEDICAL ASSISTING - 50260****(1300 clock hours)**

This 12-month program prepares the student for specific clinical, laboratory, and administrative roles as a Medical Assistant employed in a physician's office, clinic or other health care setting. Classroom theory and clinical practice prepare the student to perform a wide range of tasks ranging from examination room techniques to assisting with minor surgery, administering medications, educating patients, performing diagnostic procedures including drawing blood and electrocardiography, scheduling appointments, maintaining patient files, and completing insurance forms. Practicum experiences include internships in a physician's office or other appropriate facility.

**REQUIRED PROGRAM:**

HSC	V003	Introduction to Health Care .....	82 hours
HSC	V405	Cardiopulmonary Resuscitation .....	8 hours
HSC	V530C	Concepts of Medical Language .....	35 hours
MEA	V231	Anatomy and Physiology .....	60 hours
MEA	V500	Medical Office Receptionist .....	100 hours
HCP	V750C	Basic Concepts of Phlebotomy .....	75 hours
OTA	V006	Office Skills Training II .....	75 hours
MEA	V200C	Medical Assisting Clinical Procedures I .....	75 hours
MEA	V242	Introduction to Pharmacology .....	90 hours
MEA	V201C	Medical Assisting Clinical Procedures II .....	90 hours
MEA	V254C	Medical Office Laboratory .....	75 hours
MEA	V234	Pathophysiology and Disease .....	75 hours
MEA	V258	Introduction to Radiography .....	75 hours
HCP	V720C	Electrocardiograph Aide Clinical .....	75 hours
MEA	V334	Medical Office Procedures .....	75 hours
MEA	V952	Medical Assisting Seminar .....	35 hours
MEA	V800	Medical Assisting Practicum .....	200 hours

**MEDICAL ADMINISTRATIVE SPECIALIST - 50720****(1050 clock hours)**

This program offers students a broad foundation of knowledge and skills necessary for a position as a Medical Secretary. The content includes the use of technology to develop communications and decision-making skills, the performance of office procedures and tasks specific to a medical office, and the production of quality work in an efficient manner using advanced features of business software applications. The program focuses on broad, transferable skills and stresses understanding and demonstration of the following requirements of the medical office: computerized patient billing, appointment scheduling, recordkeeping, medical terminology, machine transcription, and word processing. The program is offered in an open entry-open exit, self-paced individualized format and offers on- the-job training.

**REQUIRED PROGRAM:**

OTA	V005	Office Skills Training I.....	75 hours
OTA	V006	Office Skills Training II.....	75 hours
OTA	V001	Office Support Technology I.....	75 hours
OTA	V002	Office Support Technology II.....	75 hours
OTA	V612	Medical Terminology I.....	75 hours
OTA	V613	Medical Terminology II.....	75 hours
OTA	V031	Computer Applications I.....	75 hours
OTA	V032	Computer Applications II.....	75 hours
OCA	V312	Office Communications I.....	75 hours
OCA	V313	Office Communications II.....	75 hours
OTA	V948	Business Cooperation Education I - OJT.....	150 hours
OTA	V949	Business Cooperation Education II - OJT.....	150 hours

**PARENTING - 50290****(45 clock hours – SELECTIVE ADMISSION)**

This program prepares students for the occupation of parenting, realizing the dual roles of males and females as homemakers and wage earners. Included in the program's content is human growth and development, interpersonal relationships, planning and management of resources, planning and preparation of healthy and safe environments for children, and family and crisis management.

**REQUIRED PROGRAM:**

CHD	V533	Parenting.....	45 hours
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**PATIENT CARE ASSISTANT - 50650****(300 clock hours – SELECTIVE ADMISSION)**

This program is designed to prepare students for employment as cross-trained nursing assistants, health care support workers, patient care assistants, nursing aids and orderlies, or home health aides. This program offers a broad foundation of knowledge and skills, expanding the traditional role of the nursing assistant, for both acute and long-term care settings.

**REQUIRED PROGRAM:**

HCP	V410C	Nursing Assistant.....	165 hours
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or

HCP and	V120	Nursing Assistant-Clinical .....	40 hours
HCP	V122	Nursing Assistant-Classroom & Lab.....	125 hours
HCP	V330C	Home Health Aide .....	75 hours
HCP	V620C	Patient Care Assistant.....	60 hours

**PHARMACY TECHNICIAN - 50490****(1050 clock hours – SELECTIVE ADMISSION)**

This program prepares students to assist a pharmacist with the technical tasks which take place in the pharmacy. Under the direct supervision of a pharmacist the graduates from this program are qualified to work as a Community Pharmacy Technician, or Pharmacy Technician in retail and hospital settings. Program completers sit for the national pharmacy technician certification examination administered by the Pharmacy Technician Certification Board. Pharmacy technicians who successfully pass the exam are eligible to use the title *Certified Pharmacy Technician (CPhT)*.

**REQUIRED PROGRAM:**

HSC	V003	Introduction to Health Care .....	82 hours
HSC	V405	Cardiopulmonary Resuscitation .....	8 hours
PTN	V000	Pharmacy Technician Orientation .....	60 hours
PTN	V032L	Pharmacy Operations I.....	50 hours
PTN	V015	Pharmaceutical Calculations.....	60 hours
MEA	V231	Anatomy and Physiology .....	60 hours
HSC	V530C	Concepts of Medical Language.....	35 hours
PTN	V023	General Pharmacology.....	90 hours
PTN	V033L	Pharmacy Operations II.....	60 hours
PTN	V030	Introduction to Community Pharmacy .....	250 hours
PTN	V031	Introduction to Institutional Pharmacy .....	250 hours
PTN	V093	Pharmacy Technician Review .....	45 hours

**PHLEBOTOMY - 50630****(165 clock hours – SELECTIVE ADMISSION)**

This program teaches phlebotomy in a clinical setting, including classroom and patient care experiences in laboratory and health care facilities. Upon provisional acceptance, a complete health screen, drug screen and Florida Department of Law Enforcement check is required.

**REQUIRED PROGRAM:**

HSC	V405	Cardiopulmonary Resuscitation .....	8 hours
HCP	V750C	Basic Concepts of Phlebotomy.....	75 hours
HCP	V940	Phlebotomy Practicum .....	82 hours

**PLUMBING APPRENTICESHIP - 50310****(8400 clock hours)**

This apprenticeship is delivered in partnership with State of Florida registered apprenticeship sponsors, and prepares students for advancement as residential or commercial plumbers in the construction industry. The program utilizes a cooperative

method of instruction, requiring on-the-job training for which the student receives compensation, and classroom instruction.

**REQUIRED PROGRAM:**

BCA	V441*	Plumbing On-The-Job Training .....	640 hours
BCA	V001	Intro to Building Trades Apprenticeship.....	36 hours
and			
BCA	V400	Building Trades Apprenticeship-Plumbing.....	54 hours
or			
BCA	V450	Introduction to Pipe Trades 1 .....	90 hours
BCA	V451	Introduction to Pipe Trades 2 .....	90 hours
BCA	V452	Introduction to Pipe Trades 3 .....	90 hours
BCA	V453	Plumbing Technology 4 .....	90 hours
BCA	V454	Plumbing Technology 5 .....	90 hours
BCA	V455	Plumbing Technology 6.....	90 hours
BCA	V456	Plumbing Technology 7 .....	90 hours
BCA	V457	Plumbing Technology 8.....	90 hours

\*This course is repeated twelve (12) times throughout the program to document the on-the-job requirement for apprentices.

**PRACTICAL NURSING - 50320**

(1350 clock hours – SELECTIVE ADMISSION)

This program prepares the student for a career as a Licensed Practical Nurse. Advanced Placement is an option for Florida Certified Nursing Assistants. The Florida Board of Nursing requires criminal checks on all applicants for licensure and any nursing licensure applicant who has an arrest record to present those records. The Florida Board of Nursing is the state agency authorized to issue nursing licenses.

**REQUIRED PROGRAM:**

HCP	V410C	Nursing Assistant .....	165 hours
and			
PRN	V001C	Transition to Practical Nursing Fundamentals .....	275 hours
or			
PRN	V004C	Practical Nursing Fundamentals .....	440 hours
PRN	V022	Body Structure and Function.....	60 hours
PRN	V373C	Practical Nursing Medical-Surgical I .....	350 hours
PRN	V374C	Practical Nursing Medical-Surgical II .....	350 hours
PRN	V933C	Transition to Graduate Practical Nurse.....	150 hours

**PRECISION METAL FABRICATION - 50340**

(1600 clock hours)

This program prepares students for employment in the machining technology industry. Upon successful completion, students will be at an entry-level position for an assistant machinist such as saw operator, crib attendant, toolmaker, die maker, mold maker, drill-press operator, machine setup operator, and mill, lathe, or grinder operator.

**REQUIRED PROGRAM:**

AMT	V130	Precision Metal Fabrication I.....	400 hours
AMT	V140	Precision Metal Fabrication II.....	150 hours

AMT	V150	Precision Metal Fabrication III.....	700 hours
AMT	V175	Precision Metal Fabrication IV.....	350 hours

**PRIVATE SECURITY OFFICER - 50350**  
(40 clock hours)

This program meets the educational requirement for individuals to prepare for employment as private security officers. Upon successful completion, the student may apply for Class “D” certification as an unarmed security officer in accordance with Florida Statute 493.

**REQUIRED PROGRAM:**

SCY	V501	Security Officer Training.....	40 hours
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**PUBLIC SAFETY TELECOMMUNICATION - 50550**  
(232 clock hours – SELECTIVE ADMISSION)

The Public Safety Telecommunications Officer Training program prepares the student for employment as a police, fire and emergency services dispatcher.

**REQUIRED PROGRAM:**

CJD	V520	Telecommunications Officer I .....	168 hours
CJD	V521	Telecommunications Officer II .....	40 hours
CJD	V525	Emergency Medical Dispatcher.....	24 hours

**SMALL ENGINE REPAIR - 50580**  
(1200 clock hours)

This program prepares students for employment or advanced training in the gasoline engine service technology industry and for a career as a small gas engine mechanic. This program focuses on broad, transferable skills, stressing the understanding of all aspects of the gasoline engine services technology industry. It demonstrates such elements as planning, management, finance, technical and product skills, underlying principles of technology, labor issues, community issues, and health, safety, and environmental issues.

**REQUIRED PROGRAM:**

SER	V163	Gasoline Engine Service I.....	150 hours
SER	V210	Gasoline Engine Service 2.....	150 hours
SER	V550	Gasoline Engine Service 3.....	150 hours
SER	V150	Gasoline Engine Service 4.....	150 hours
SER	V949	Gasoline Engine Service OJT (2x) .....	300 hours

**SUPPORTED COMPETITIVE EMPLOYMENT FOR  
ADULTS WITH DISABILITIES – 50610**  
(300 clock hours – SELECTIVE ADMISSION)

This program enables adult students with moderate and severe disabilities who are functioning at supported levels to acquire skills necessary for successful individual supported competitive employment. Features of supported employment include intensive on-site training, fade-off, ongoing monitoring, and on-site advocacy by a job coach or employment specialist. The program includes, but is not limited to, positive

work attitudes and habits, appropriate hygiene and grooming skills, related safety procedures, appropriate decision-making skills, specific job-related skills, and self-reliance and initiative. The weekly work hour goal will be identified in the student's Adult Individual Educational Plan (AIEP). The content of this program is expected to be provided as part of employment activities, not as a pre-employment requirement.

**REQUIRED PROGRAM:**

VPI	V522	Supported Competitive Employment for Adults with Disabilities (Phase I) .....	300 hours
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**SURGICAL TECHNOLOGY - 50400**

(1330 clock hours – SELECTIVE ADMISSION)

This 12-month program provides the student with the technical ability, knowledge, and skills required for entry-level employment as a member of the health care team in any hospital operating room or outpatient surgical center. The Surgical Technology program provides the student with a strong foundation in the essentials of health care, anatomy, physiology and medical language, and pharmacology. Specialty didactic, laboratory and clinical courses in surgical technology prepare the student to become an entry-level surgical technologist.

**REQUIRED PROGRAM:**

HSC	V003	Introduction to Health Care .....	82 hours
HSC	V405	Cardiopulmonary Resuscitation .....	8 hours
PRN	V022	Body Structure and Function .....	60 hours
HSC	V530C	Concepts of Medical Language .....	35 hours
STS	V003	Introduction to Surgical Technology .....	120 hours
STS	V008	Pharmacology for the Surgical Technologist .....	60 hours
STS	V155C	Surgical Techniques and Procedures.....	210 hours
STS	V255L	Surgical Procedures Clinical.....	225 hours
STS	V120	Surgical Specialties.....	230 hours
STS	V256L	Surgical Specialties Clinical.....	300 hours

**TRAVEL AGENCY OPERATIONS - 50460**

(450 clock hours)

This program prepares the student for employment as reservation and transportation ticket agents employable at travel agencies, hotels, airports, and other venues. The training includes selling, transporting, storing, advertising, displaying, and planning travel services. Opportunities to increase employability skills and technology skills are provided through the internship component of the program.

**REQUIRED PROGRAM:**

HMV	V707	Travel Agency Operations.....	75 hours
HMV	V731	Airline/Travel Computer Operations.....	75 hours
HMV	V941	Travel Agency Internship .....	75 - 300 hours



**VOCATIONAL EDUCATION FOR  
STUDENTS WITH DISABILITIES - 50500**

(975 clock hours – SELECTIVE ADMISSION)

This program develops skills that allow special students to acquire information to determine realistic employment goals and identify potential careers available in the community. The content deals with comparing personal strengths and weaknesses, including physical and cognitive abilities, to specific job requirements and demonstrating employability skills appropriate to the workplace.

**REQUIRED PROGRAM:**

SLS	V390	Employability Skills I .....	225 hours
SLS	V391	Employability Skills II .....	225 hours
VPI	V530	Diversified Occupational Training.....	225 hours
SLS	V936	OJT-Vocational Education.....	(4x) 75 hours

**ELECTIVES:**

SLS	V933	Special Topics in Work Skills .....	300 hours
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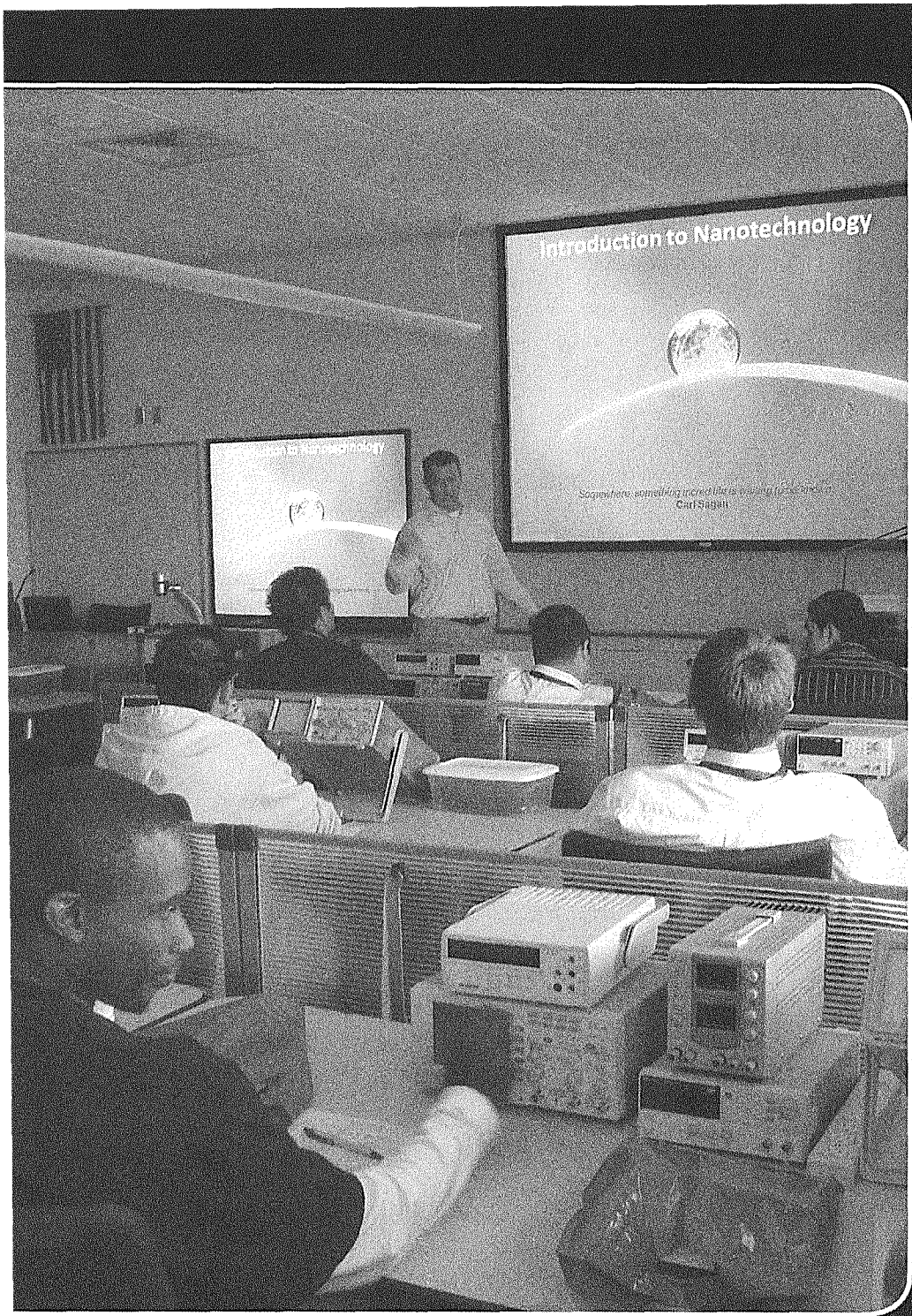
**(APPLIED) WELDING TECHNOLOGY – 50570**

(1200 clock hours)

This program prepares students for employment in a variety of occupations in the welding industry. The program focuses on broad, transferable skills and stresses understanding and demonstration of the following elements of the welding industry: planning, management, finance, technical and product skills, underlying principals of technology, labor issues, community issues and health, safety, and environmental issues.

**REQUIRED PROGRAM:**

PMT	V123	Oxyfuel Welding/Cutting I .....	150 hours
PMT	V124	Oxyfuel Welding/Cutting II .....	150 hours
PMT	V164	ARC Welding I .....	150 hours
PMT	V165	ARC Welding II .....	150 hours
PMT	V147	Gas Metal ARC Welding I .....	150 hours
PMT	V141	Flux Core ARC Welding.....	150 hours
PMT	V150	Gas Tungsten ARC Welding.....	150 hours
PMT	V161	Pipe Welding.....	150 hours



**COURSES**

## COURSE DESCRIPTIONS

The Educational Services Division will assist each student to determine specific needs and the appropriate required and elective courses for individual degree-seeking purposes.

The term "credit" as used in this catalog refers to semester hours. Generally, one class hour per week throughout the semester is equal to one semester hour. A two or three-hour laboratory period is equivalent to one semester hour.

The code letter "U" designates upper-level courses which may be used as credit for completion of the Baccalaureate Degree (see page 84). Level 1 and 2 courses may need to be completed prior to beginning a Baccalaureate program (see page 84).

The code letter "P" designates professional or academic courses which may be used as credit for completion of the Associate in Arts Degree (see page 109) and may meet the General Education requirements for the Associate in Science and Associate in Applied Science degrees (see page 143).

The code letter "O" designates occupational courses. These courses do not count toward the Associate in Arts Degree.

No designation indicates that these courses are not intended to transfer to senior colleges or universities; however, they may be accepted as transfer courses at some institutions. Consult an Educational Services Advisor/Counselor or the transfer institution of your choice.

Many of the following courses are available as Internet based courses that provide students the opportunity to enroll in stimulating courses and earn college credit in the convenience of their own homes. For further information contact the Educational Services Division or visit the IRSC website at [www.irsc.edu](http://www.irsc.edu).

## ACCOUNTING TECHNOLOGY

- ACG 2001 Financial Accounting I (P) 3 credits**  
This course presents fundamental principles and procedures of recording, classifying, and summarizing financial data and includes accruals and deferrals, depreciation, inventory, payroll, cash control, and notes payable. Lab fee \$12.00.
- ACG 2011 Financial Accounting II (P) 3 credits**  
This is the study of special systems for internal control, long-term asset analysis, the equity structure of partnerships, corporations, and cost and statement analysis. Prerequisite: ACG 2001 with a grade of "C" or higher. Lab fee \$12.00.
- ACG 2071 Managerial Accounting (P) 3 credits**  
This course prepares the student for practical analysis and usage of accounting data by management in the areas of financial statements, budgeting, responsibility accounting, and cost and profit analysis. Prerequisite: ACG 2011 with a grade of "C" or higher. Lab fee \$12.00.
- ACG 2100 Intermediate Accounting (O) 3 credits**  
This course is a continuation of accounting principles with emphasis on theory and concepts involving a deeper inspection of balance sheet and income statement topics. Discussions include decisions by management, creditors, and stockholders. Prerequisite: ACG 2011.
- ACG 2949 Accounting Seminar and Supervised Internship (O) 3 credits**  
This course provides an opportunity for advanced accounting students to immediately apply fundamental accounting procedures and operations by working in an accounting office. Prerequisite: ACG 2001, ACG 2011. Corequisite: ACG 2071.
- ACG P931 Accounting Seminar I (O) 8 hours**  
This course teaches the updates on the new auditing standards passed by the Auditing Standards Board.
- ACG P932 Professional Auditing Standards Review II (O) 4 hours**  
This course teaches the updates on the new auditing standards passed by the Auditing Standards Board.

- ACG P933 Professional Auditing Standards Review III (O)** **4 hours**  
This course teaches the updates on the new tax laws recently passed by the Internal Revenue Service.
- APA 1111 Introduction to Accounting (O)** **3 credits**  
This course presents the application of the collating of figures for reports. It includes analyzing, journalizing, posting, adjusting and closing entries, straightline depreciation, and payroll. Knowledge of business mathematics proceedings is essential. Lab fee \$12.00.
- APA 1152 Orientation to Quickbooks (O)** **1 credit**  
This course teaches the computer applications packet Quickbooks, which includes A/R, A/P, inventory, invoicing, payments, payroll, graphs, and reports.
- APA 1153 Quickbooks II (O)** **1 credit**  
This course teaches the student to process financial transactions in depth for a month's cycle for a business. This will take the student who has had the orientation class further into the accounting processing system. Prerequisite: APA 1152.
- FIN 1100 Personal Finance (O)** **3 credits**  
This course teaches the expertise to make informed financial decisions. It is divided into five parts and each part covers one specific component needed to develop a financial plan. Continuity is provided throughout the course to show how personal finance decisions in the early chapters have an effect on other decisions in the later chapters.
- FIN 2001 Introduction to Finance (O)** **3 credits**  
This course is an introduction to the theory and practice of financial management that focuses on the practitioner, with particular emphasis for the small to medium size business owner, as well as one who performs in a middle management capacity in a large firm. The course prepares students for employment in areas such as business development, installment, credit, commercial loans, or public relations.
- TAX 2000 Income Tax (O)** **3 credits**  
This course presents new tax laws, a comprehensive study of individual tax structure, and preparation of the individual return (1040). Offered Fall semester only.

### **AGRICULTURE PRODUCTION TECHNOLOGY**

- AEB 1132 Farm Management (O)** **3 credits**  
This course teaches basic decision-making tools needed by a farm manager. The emphasis is on business management and financial control utilizing farm records.
- AEB 1135 Florida Cow-Calf Management (O)** **3 credits**  
This course teaches management options recommended for increasing productivity of both the beef cow and the acreage on which she is maintained.
- AEB 1943 Agribusiness Work Experience (O)** **1 - 3 credits**  
This course provides students with on-the-job work experience that matches career objectives and industry requirements. Supervision, classroom instruction, and employer consultation are utilized to achieve the objective. Prior consultation with instructor is required.
- AEB 2104 Principles of Agricultural Economics (P)** **4 credits**  
This course studies the principles of economics as applied to agriculture, basic production problems of agriculture, and agricultural policy.
- ANS 1003 Introduction to Animal Science (P)** **3 credits**  
This course teaches the fundamentals of animal science as it relates to farm animals. Topics include breed identification, nutrition, reproduction, health, breeding, and selection.
- ANS 1310 Animal Reproduction (O)** **3 credits**  
This course presents the physiological processes controlling animal reproduction. The course emphasizes the application of basic concepts to the management of reproduction in livestock.

- ENY 1002 Fundamentals of Entomology** **3 credits**  
 This course teaches the fundamental principles of entomology. Topics include insect morphology, development, specialization, ecology and behavior.
- FAS 1010 Introduction to Aquaculture (O)** **3 credits**  
 This course teaches the fundamentals of aquaculture. Topics include aquaculture species, culture systems, production facilities, career opportunities, job requirements and tasks performed in the field of aquaculture.
- FAS 2020 Principles of Fish Aquaculture (O)** **4 credits**  
 This course teaches methods and techniques used in the aquaculture of fresh and saltwater fish species. Topics include biology, anatomy and life cycles, environmental requirements, production systems technology, stocking and feeding practices, harvest and processing, economics and marketing, and regulations.
- FAS 2150 Principles of Crustacean Aquaculture (O)** **4 credits**  
 This course teaches methods of culturing crustacean species with an emphasis on marine shrimp. Topics include biology and anatomy, nursery and growout systems technology, stocking and feeding practices, harvest and processing, economics and marketing, and regulations.
- FAS 2151 Principles of Molluscan Aquaculture (O)** **4 credits**  
 This course teaches methods of culturing molluscan species with an emphasis on hard clams. Topics include comparative biology, land and field based system design and operation, feeding and growth parameters, sieving, sorting and record keeping, production strategies, predation, marketing, economics, leasing and regulations.
- FAS 2252 Aquatic Animal Health Management (O)** **4 credits**  
 This course teaches recognition of diseases in aquaculture species. Basic diagnostics and treatment methods are covered. Prevention and biosecurity through proper management are emphasized. Students are strongly advised to take a biology course and FAS 1010 before attempting this course.
- FAS 2412 Water Quality, Systems and Operations (O)** **4 credits**  
 This course teaches aquaculture water quality and culture systems focusing on aspects of recirculating system components in use today. Topics include water quality parameters, measurement and analysis, solids removal, microfiltration and screens, biofilters, aeration, design, flow and carrying capacity, and new innovations.
- FAS 2930 Special Topics in Aquaculture (O)** **1 - 4 credits**  
 This course focuses on selected current topics in aquaculture.
- HOS 1010 Fundamentals of Horticulture (O)** **4 credits**  
 This course teaches the fundamentals of plant structure, growth, and development. The course also covers the principles and methods of growing various fruit, vegetable, and agronomic crops.
- HOS 1060 Compost and Recycling (O)** **3 credits**  
 This course teaches concepts of yard waste recycling and developing compost for use in horticulture production.
- HOS 1930 Special Topics in Horticulture (O)** **1 - 4 credits**  
 This course teaches current topics in horticulture.
- IPM 1323 Application of Pesticides (O)** **3 credits**  
 This course teaches students safe handling of pesticides, selection of appropriate application equipment, calibration, and mixing of chemicals.
- ORH 1231 Lawn Care Maintenance (O)** **3 credits**  
 This course teaches the standard techniques and practices of lawn care maintenance, including identification of local turf grasses, selection and use of equipment, identification of insects and diseases, fertilizers, and herbicides.

**ORH 1010 Landscape and Horticulture Technology (0)** **3 credits**  
This course teaches sustainable landscape design and management principles. It includes organic and other sustainable certification programs, native plant materials, xeriscaping, reduction of utility load, efficient irrigation practices, use of recycled materials, and hurricane resistant plantings.

**ORH 1510 Plant Identification** **3 credits**  
This course teaches basic principles of plant identification.

**ORH 1511 Plant Identification II (0)** **3 credits**  
This course teaches identification, selection and use of herbaceous annual, perennials, herbs and ferns.

**ORH 1710 Environmental Landscape Management (0)** **1 credit**  
This course teaches how to design and modify a landscape for water and energy conservation, determine shade patterns, recycle yard waste, and select plants for maximum energy savings.

**ORH 2601 Retail Nursery Operations (0)** **3 credits**  
This course teaches the principles of retail nursery operations.

**ORH 2841 Landscape Installation (0)** **3 credits**  
This course teaches the general principles of landscape installation.

**ORH 2859 Landscape Design and Maintenance (0)** **3 credits**  
This course teaches the facets of effective and profitable landscape maintenance techniques. Public relations, motivation, efficiency, plant growth management, turfgrass management, pest management, proper selection and safe use of equipment, first aid, and other areas of information are presented.

**PMA 2211 Insects and Diseases of Ornamental Plants (0)** **3 credits**  
This course teaches an overview of the major insects and diseases and nutritional disorders that affect the ornamental plant industry.

**SWS 1102 Irrigation Systems I (0)** **3 credits**  
This course teaches the general aspects of fieldcrop, turf, and landscape irrigation.

**SWS 2304 Irrigation Systems II (0)** **3 credits**  
This course teaches advanced design concepts, complex pumping situations, hydraulic flow control systems, computer assisted functions and the business of specifications and contracting. The curriculum is applicable to agriculture and landscape technologies.

**SWS 2104 Soils And Fertilizers (0)** **3 credits**  
This course studies soil usage and fertility including fertilizing practices.

**VME 1104 Animal Health (0)** **3 credits**  
This course teaches the fundamentals of farm animal management. Topics include preventive health care, diseases, internal and external pests, nutritional and metabolic disorders, and vaccination and immunization.

### **AIR CONDITIONING, REFRIGERATION, AND HEATING SYSTEMS TECHNOLOGY**

**ACR 1112 Basic Electricity for A/C and Refrigeration (0)** **3 credits**  
This course introduces electricity covering sources, measure devices, Ohm's law, circuits, and service management. Lab fee \$20.00.

**ACR 1008 Principles of A/C and Refrigeration (0)** **3 credits**  
This course introduces refrigeration history, refrigeration cycle, tools of the trade, tubing skills, charging techniques, safety, and principles of service management. Lab fee \$50.00.

**ACR 1101 Applied Electricity I (Air Conditioning) (0)** **3 credits**  
This course presents test equipment, circuit protection, practical circuits and power, energy, motors, controls, and service management. Lab fee \$20.00.

- ACR 1113 Applied Electricity II (Air Conditioning) (O)** 3 credits  
This course provides an advanced history of electrical motors, transformers, control devices, circuit reading, and service management. Lab fee \$20.00.
- ACR 1103 HVAC Control Systems (O)** 3 credits  
This course covers the three basic types of electrical devices, electric motors, relays, solenoids, heat strips, capacitors, thermostats, solid state controls, and service management. Lab fee \$60.00.
- ACR 1208 Refrigerant Recovery and Reclaim (O)** 1 credit  
This course covers the EPA requirements for refrigerant recovery, reclaim, transporting, and disposal of CFC refrigerants. Lab fee \$55.00.
- ACR 1612 Heat Pump Systems (O)** 3 credits  
This course presents principles of heat pumps and their applications. Topics include installation, service, and maintenance skills on heat pumps. Prerequisite: ACR 1008, ACR 1100, ACR 1101. Lab fee \$40.00.
- ACR 1730 R-410A Certification (O)** 1 credit  
This course teaches training and practical knowledge to safely perform service on systems containing R-410A. R-410A safety certification test is given. Lab fee \$55.00.
- ACR 1731 Green Mechanical Awareness Certification (O)** 3 credits  
This course teaches the basic skills of Green mechanical technology and Green alternatives relating to air conditioning and heating systems. Students are prepared to complete a Green Awareness Certification exam. Lab fee \$55.00.
- ACR 1740 Components of Refrigeration (O)** 3 credits  
This course introduces compressors, condensers, evaporators, metering devices, service procedures, and service management. Lab fee \$50.00.
- ACR 1931 Special Topics in HVAC (O)** ½ - 4 credits  
This course teaches current topics related to air conditioning, heating, ventilation and refrigeration. Topics may include OSHA training, refrigerants, special certifications, specialized equipment or repair and maintenance techniques.
- ACR 2067 Heating and Cooling Load Calculations (O)** 3 credits  
This course teaches the calculating of heating and cooling loads and service management.
- ACR 2071 Air Conditioning and Heating Service Management (O)** 3 credits  
This class presents the principles and theories of business, as well as customer, employer, and employee relations.
- ACR 2421 Duct Systems (Air Conditioning and Heating) (O)** 3 credits  
This course studies the construction layout, balancing to a duct system, and service management. Lab fee \$20.00.
- ACR 1946 Refrigeration and A/C Cooperative Work Experience I (O)** 4 credits  
This course provides for a cooperative agreement between the student, the employer, and IRSC. The student is provided with a training plan that covers his course of study during the semester to help meet his career objectives. The employer, coordinator, and instructor work together to guide the student's learning experiences on-the-job and in school. Special emphasis is placed on instructional areas found necessary for continued advancement in the place of employment. This is the first in a series of four courses.
- ACR 1947 Refrigeration and A/C Cooperative Work Experience II (O)** 4 credits  
This is the second in a series of four courses. Emphasis is placed on skills to enhance job advancement. Prerequisite: ACR 1946.
- ACR 1948 Refrigeration and A/C Cooperative Work Experience III (O)** 4 credits  
This is the third in a series of four courses. Special emphasis is placed on instructional areas necessary for continued advancement on-the-job. Prerequisite: ACR 1947.

- ACR 1949 Refrigeration and A/C Cooperative Work Experience IV (O) 4 credits**  
This is the last in a series designed to provide a cooperative agreement between the student, the employer, and IRSC. Advancement in employment is one of the primary objectives of this course. Prerequisite: ACR 1948.
- ACR 2745 Light Commercial Refrigeration and A/C (O) 3 credits**  
This course provides an overview of commercial refrigeration systems. This covers supermarket refrigeration systems, applications, components, defrost systems, accessories, refrigerant, reclaim, troubleshooting, and service. Prerequisite: ACR 1741, ACR 1102 or permission of instructor. Lab fee \$35.00.
- ACR 1611 Heat (O) 3 credits**  
This course introduces electrical, gas, and oil heating systems, and service management. Lab fee \$60.00.
- ACR V930 Special Topics in HVAC (O) 15 - 150 hours**  
This course teaches current topics related to air conditioning, heating, ventilation and refrigeration. Topics may include OSHA training, refrigerants, special certifications, specialized equipment or repair and maintenance techniques.
- ACR V041 HVAC/R1 (O) 150 hours**  
This course introduces refrigeration and includes the history, tools of the trade, refrigeration cycle, installation and service procedures, safety and service management. Lab fee \$40.00.
- ACR V042 HVAC/R2 (O) 150 hours**  
This course introduces electricity, covering atomic theory, sources, measuring devices, Ohm's Law, calculating power, circuits, symbols, load devices, controls, conductors, insulators, power distribution, voltage systems, motors, and safety. Employment skills and the value of computer and communication skills are integrated throughout. Prerequisite: ACR V041. Lab fee \$40.00.
- ACR V043 HVAC/R3 (O) 150 hours**  
This course covers the skills required to properly assist in the installation of a residential heating and air conditioning system, and troubleshoot electrical control systems. Other topics covered include mechanical systems and start up and check out procedures. Prerequisite: ACR V042. Lab fee \$40.00.
- ACR V044 HVAC/R4 (O) 150 hours**  
This course introduces advanced skills in installation of a residential heating and air conditioning system and the related start up procedures. Other topics include electrical wiring diagrams, troubleshooting electrical components, circuits, and systems, and refrigerant cycles. Prerequisite: ACR V043. Lab fee \$40.00.
- ACR V045 HVAC/R5 (O) 150 hours**  
This course introduces the use of combustion-type heating servicing and testing equipment and troubleshooting techniques used for gas valves and regulators. Prerequisite: ACR V044. Lab fee \$40.00.
- ACR V046 HVAC/R6 (O) 150 hours**  
This course encompasses solid state electronics as used in heating, air conditioning and refrigeration, indoor air quality standards, mastery of installation, and maintenance and repair of heating, air conditioning, and refrigeration systems. Prerequisite: ACR V045. Lab fee \$40.00.
- ACR V047 HVAC/R7 (O) 150 hours**  
This course builds mastery in commercial heating and air conditioning components. Topics include selecting commercial compressors, testing and adjusting commercial evaporative condensers, maintaining and troubleshooting commercial evaporators, and commercial heating and air conditioning accessories. Prerequisite: ACR V045. Lab fee \$40.00.



- ACR V048 HVAC/R8 (O) 150 hours**  
This course builds mastery in servicing and troubleshooting commercial heating and air conditioning components. Topics include maintaining, troubleshooting, and repairing commercial heating systems, as well as maintaining and repairing thermal storage systems. Prerequisite: ACR V047. Lab fee \$40.00.
- ACR V049 HVAC/R5 (O) 150 hours**  
This course provides the advanced technical skills to install, maintain, and repair heating, air conditioning, and refrigeration systems. Topics include identifying and measuring indoor air quality and understanding new technologies in heating, air conditioning and refrigeration installations. Prerequisite: ACR V048. Lab fee \$40.00.
- ACR V946 Apprenticeship HVAC On-the-Job Training (O) 640 hours**  
This course helps students implement the theoretical concepts introduced in the classroom components of the air-conditioning apprenticeship program through on-the-job training. Prerequisite: permission of instructor.
- ACR V940 Apprenticeship HVAC 1 (O) 90 hours**  
This is the initial course for students attending as first year apprentices in the air conditioning industry. It introduces theoretical concepts regarding safe working conditions and practices, history of the trade, tool and accessory identification, and proper care and usage of tools of the trade. Prerequisite: permission of instructor. Corequisite: ACR V946.
- ACR V941 Apprenticeship HVAC 2 (O) 90 hours**  
For students attending as first year apprentices in the air conditioning industry, this course teaches scientific and math concepts related to the air conditioning industry, and skills including fabrication and service for piping, tubing and fittings used in the industry. Prerequisite: ACR V940 and permission of instructor. Corequisite: ACR V946.
- ACR V942 Apprenticeship HVAC 3 (O) 90 hours**  
This course develops the second year air conditioning apprentice's knowledge of heating, air-condition and refrigeration system components and accessories. Communication and industry related computer skills, along with discussions concerning entrepreneurship is an additional focus. Prerequisite: ACR V941 and permission of instructor. Corequisite: ACR V946.
- ACR V943 Apprenticeship HVAC 4 (O) 90 hours**  
This course develops the second year air conditioning apprentice's practical knowledge of basic electricity and the electrical components related to the industry. Troubleshooting electrical control systems and their components, and wiring electrical motors and their components is covered. Prerequisite: ACR V942 and permission of instructor. Corequisite: ACR V946.
- ACR V944 Apprenticeship HVAC 5 (O) 90 hours**  
This course introduces the third year air conditioning apprentice to installation techniques, start up and check out procedures, and sizing of heating, air conditioning, and refrigeration piping. Prerequisite: ACR V943 and permission of instructor. Corequisite: ACR V946.
- ACR V945 Apprenticeship HVAC 6 (O) 90 hours**  
This course teaches techniques and skills required of third year air conditioning apprentices in solid state electronics as used in the industry. Students learn how to operate mechanical refrigeration and testing equipment and combustion type heating servicing and testing equipment. Prerequisite: ACR V944 and permission of instructor. Corequisite: ACR V946.
- ACR V947 Apprenticeship HVAC 7 (O) 90 hours**  
This course teaches advanced training in the industry as a fourth year air conditioning apprentice and includes concentration in gas valves, regulators, properties of air, and pressure enthalpy charts for diagramming refrigerant cycles. Prerequisite: ACR V945. Corequisite: ACR V946.

**ACR V948 Apprenticeship HVAC 8 (O) 90 hours**

This course teaches advanced training in the industry as a fourth year air conditioning apprentice and includes concentration in the standards for and ways to measure indoor-air quality, and installation, maintenance and repair of heating, air-conditioning, and refrigeration systems. Prerequisite: ACR V947. Corequisite: ACR V946.

**ACR V980 Building Trades Apprenticeship - HVAC (O) 54 hours**

This course teaches entry level competencies for working in the Heating, Ventilation, Air Conditioning and Refrigeration industry. These competencies include safety practices, use of industry specific tools and equipment, appropriate communication and math skills, basic air conditioning principles and codes. This course is taught in conjunction with the work activities of ACR V946. Prerequisite: BCA V001. Corequisite: ACR V946.

**ACR V571 Commercial Heating and AC I (O) 150 hours**

This course provides a working knowledge of advanced skills in commercial heating and air conditioning systems. Topics include engineered control systems, pneumatic control systems, and maintaining, troubleshooting, and repairing of commercial heating and air conditioning systems, troubleshooting electrical circuits and evaporative condensers. Prerequisite: ACR V701. Lab fee \$40.00.

**ACR V578 Commercial Heating and AC II (O) 150 hours**

This course provides advanced skills necessary in Commercial Heating and Air Conditioning. Topics include maintaining, troubleshooting, and repairing commercial evaporators and accessories; commercial heating systems, thermal storage systems, and electrical motors and their components; calculating commercial heating and air conditioning loads, and selection of appropriate commercial compressors. Prerequisite: ACR V571. Lab fee \$40.00.

**ACR V984 AC Applications I (O) 75 hours**

This course teaches industry safety, first aid, and tool recognition and proper usage. It also provides students additional experience by matching career objectives in air conditioning, heating, and refrigeration technician standards through computer-based training and development of employability skills. This course reinforces employment competency expectations with practical experiences in a lab setting. Prerequisite: ACR V523.

**ACR V985 AC Applications II (O) 75 hours**

This course teaches hands-on experiences in air conditioning, heating, and refrigeration technician standards through computer based training, and continued development of employability skills. This course reinforces the competencies and standards critical to the industry and mandatory for successful employment through practical experiences in the lab setting and workplace (if appropriate). Prerequisite: ACR V100.

**AIRCRAFT AIRFRAME MECHANICS**

**AMT V706 Aviation Maintenance Tech I (O) 360 hours**

This course is an introduction to aviation maintenance with an emphasis on safety. Topics of study include OSHA training, introduction to airplanes, general terminology in aviation, basic hand tools, blueprint reading, sheet metal skills as well as employability and professionalism. Students have an opportunity for hands-on training to reinforce classroom instruction.

**AMT V718 Aviation Maintenance Tech II (O) 480 hours**

This course teaches advanced aviation maintenance technical skills with FAA airframe rating. Topics of study include maintaining structures, applying covering materials and finishes, and repairing sheet metal structures. Students have an opportunity for hands-on training to reinforce classroom instruction. Prerequisite: AMT V706.

**AMT V719 Aviation Maintenance Tech III (0)** 480 hours  
This course teaches advanced aviation maintenance technical skills with FAA airframe rating and is a continuation of Aviation Maintenance Tech II. Topics of study include assembly and rigging of rotary-wing and fixed-wing aircraft, aircraft inspections, and maintaining essential aircraft systems. Students have an opportunity for hands-on training to reinforce classroom instruction. Prerequisite: AMT V718.

**AMT V930 Aviation Sheet Metal Boot Camp (0)** 120 hours  
This course provides an introduction to aviation sheet metal fabrication with an emphasis on safety. Topics of study include OSHA training, introduction to airplanes, general terminology in aviation, basic hand tools, blueprint reading, sheet metal skills as well as employability and professionalism. Students have an opportunity for hands-on training to reinforce classroom instruction.

## **ANTHROPOLOGY**

**ANT 1000 Introduction to General Anthropology (P)** 3 credits  
This course provides an overview of the entire field of anthropology by focusing on the essential methods and findings of the discipline's four principal subfields (biological anthropology, archaeology, cultural anthropology, and linguistics). Students who successfully complete ANT 1000 are well prepared for subsequent courses in Cultural Anthropology and Linguistics (ANT 2410) and Biological Anthropology and Archaeology (ANT 2140), although ANT 1000 is not a prerequisite for those courses. ANT 1000 is not intended for students who have already completed either ANT 2410 or ANT 2140. Prerequisite: Student must score into college-level English on placement test.

**ANT 2010 Anthropology and the Paranormal (P)** 3 credits  
This course provides a critical, scientific examination of paranormal beliefs in contemporary American culture. Topics include ESP, psychokinesis, disembodied spirits, astrology, UFO's and cryptozoology. Prerequisite: Student must score into college-level English on placement test.

**ANT 2140 Introduction to Biological Anthropology and Archaeology (P)** 3 credits  
This course provides an introduction to the anthropological subfields of biological anthropology and archaeology. Topics include the principles of biological evolution, the evolution of the human species, the evolution of culture, the peopling of the New World, and the origins of civilization. Prerequisite: Student must score into college-level English and reading on placement test.

**ANT 2410 Introduction to Cultural Anthropology and Linguistics (P)** 3 credits  
This course provides an introduction to the anthropological subfields of ethnology, ethnography, and linguistics. It focuses on culture as the human system of adaptation and examines the reasons for the similarities and differences among the world's societies. Principal topics include language, subsistence, kinship, political organization religion, and the arts. Prerequisite: Student must score into college-level English and reading on placement test.

**ANT 2524 Fundamentals of Forensic Anthropology (P)** 3 credits  
This course is an introduction to the basic principles of forensic anthropology, an applied field within the larger discipline of biological anthropology that uses human osteology, archaeology, and other anthropological research methods to solve problems of medical-legal significance, primarily the determination of personal identity and cause of death from human remains.

**ART 2330C Figure and Form (P) 3 credits**

This course teaches the anatomy of the human from an artistic viewpoint. It incorporates visual tapes on the structure of the human body and a textbook "Drawing Lessons from the Great Masters". Students learn about drawing styles and techniques from master artist drawings and from drawing actual human figures in a dance class.

**GRA 2111C Graphics (P) 3 credits**

This course introduces the student to printing techniques with emphasis on the layout process using hand and computer methods. The design elements and principles are stressed as they apply to the graphic process.

**GRA 2114C Graphics II (P) 3 credits**

This course teaches in-depth understanding of the creative rules and typical industry standards for print and screen composition with a focus on vocabulary and integration of software tools.

**ART 2500C Painting I (P) 3 credits**

This course teaches basic painting techniques in acrylic, watercolor and oil with instruction in composition, technique, and exhibition included.

**ART 2501C Painting II (P) 3 credits**

This course emphasizes personal creativity and the development of individual styles. Exhibition required, and creativity is stressed. Prerequisite: ART 2500C or permission of instructor.

**ART 2540C Watercolor Painting (P) 3 credits**

This course teaches basic watercolor painting techniques and processes with an emphasis on composition and creativity.

**AUTOMOTIVE SERVICE TECHNOLOGY****AER 1081C Introduction to Automotive Technology (O) 3 credits**

This course presents a short overview of modern automotive systems, outlines important safety practices, and describes the uses of common shop tools and diagnostic equipment. Lab fee \$30.00.

**AER 1198 Engine Overhaul, Repair and Testing (O) 4 credits**

This course provides instruction on the testing and repair of engine mechanical problems. Lab fee \$30.00.

**AER 1694C Introduction to Automotive Electrical Systems (O) 3 credits**

This course is an introduction to the theory and application of electricity and electronics as applied to the modern automobile electrical systems. Lab fee \$30.00.

**AER 1020C Orientation to Vehicle Maintenance (O) 1 - 3 credits**

This course presents the theory and application of preventative maintenance of motor vehicles to include minor diagnostic and repair procedures related to maintaining the safety and integrity of both gasoline and diesel powered vehicles.

**AER 1598 Automotive Brake Systems (O) 4 credits**

This course presents the fundamental principles, operation, diagnosis, repair, and rebuilding of modern automotive manual and power brake systems. Brake service training includes troubleshooting, minor repair through rebuilding, drum and disk resurfacing. Lab fee \$35.00.

**AER 1498 Suspension, Steering, and Alignment (O) 4 credits**

This course presents diagnosis, repair, overhaul, and adjustment of suspension and steering systems as used in modern automobiles. Tire balancing, steering component rebuilding, shock absorbers, suspension systems, wheel bearings, two and four-wheel alignment are covered. Lab fee \$40.00.

- AER 1810 Automotive Work Experience (O)** **1 - 4 credits**  
This course provides the student with an automotive technology training plan that matches career objectives and industry requirements. Supervision, classroom instruction, and employer consultations are used to achieve the objectives. Student must have prior automotive training or experience and be enrolled in the Automotive Technology program. Prerequisite: permission of instructor.
- AER 1937 Special Topics in Automotive (O)** **½ - 4 credits**  
This course teaches current topics related to the diagnosis and repair of automotive systems and their related components. Lab fee \$25.00.
- AER 2758 Automotive Air Conditioning and Heating (O)** **4 credits**  
This course enables the student to diagnose and repair automotive air conditioning and heating systems, performance test air conditioning, heating, vacuum, electrical control systems and components, and to operate and service air conditioning reclaiming machines. Lab fee \$40.00.
- AER 2298 Automatic Transmissions and Transaxles (O)** **4 credits**  
This course teaches the theory, operation, maintenance, diagnosis, and repair of automatic transmissions/transaxles, and their hydraulic, mechanical, and electronic components. Lab fee \$30.00.
- AER 2398 Manual Drive Train and Axles (O)** **4 credits**  
This course teaches the diagnosis, repair and rebuilding of automotive power trains and components, including: drivelines, ujoints, clutches, linkages, axles and bearings, differentials, and manual transmissions/transaxles. Lab fee \$30.00.
- AER 2695C Advanced Automotive Electric Systems (O)** **4 credits**  
This course enables the student to diagnose and repair automotive electrical and electronic systems and their components including batteries, charging systems, starting systems, lighting circuits, driver information systems, and electrical accessories. Lab fee \$30.00.
- AER 2895C Advanced Engine Performance (O)** **4 credits**  
This course teaches the theory, operation, diagnostic, and repair procedures for computer-controlled engine performance-related systems, such as the emission controls, fuel systems, ignition systems and the advanced engine controls. Lab fee \$40.00.
- AER 2898C Engine Performance (O)** **4 credits**  
This course teaches the service, diagnosis, and repair of engine performance related systems. Topics covered include fuel, ignition, and emission control systems in addition to other engine performance related problems. Lab fee \$40.00.
- AER 2139 A1 Engine Repair ASE Test Prep (O)** **1 credit**  
This course teaches a comprehensive review of all phases of engines repair for automobiles, SUV's and light trucks for ASE certification.
- AER 2200 A2 Automatic Transmission/Transaxle Test Prep (O)** **1 credit**  
This course teaches a comprehensive review of all phases of automatic transmissions and transaxles for automobiles, SUV's and light trucks for ASE certification.
- AER 2302 A3 Manual Drive Train and Axles and ASE Test Prep (O)** **1 credit**  
This course teaches a comprehensive review of all phases of manual drive train and axles for automobiles, SUV's and light trucks for ASE certification.
- AER 2409 A4 Suspension and Steering ASE Test Prep (O)** **1 credit**  
This course teaches a comprehensive review of all phases of suspension and steering for automobiles, SUV's and light trucks for ASE certification.
- AER 2519 A5 Brakes ASE Test Prep (O)** **1 credit**  
This course teaches a comprehensive review of all phases of diagnosis and repair of brakes for automobiles, SUV's and light trucks for ASE certification.

- AER 2696 A6 Electrical/Electronic Systems ASE Test Prep (O)** **1 credit**  
This course teaches a comprehensive review of all phases of automatic transmissions and transaxles for automobiles, SUV's and light trucks for ASE certification.
- AER 2796C A7 Heating and Air Conditioning ASE Test Prep (O)** **1 credit**  
This course teaches a comprehensive review of all phases of diagnosis and repair service of heating and air conditioning systems for automobiles, SUV's and light trucks for ASE certification.
- AER 2894 A8 Engine Performance ASE Test Prep (O)** **1 credit**  
This course teaches a comprehensive review of all phases of engine performance including diagnosis and repair service for automobiles, SUV's and light trucks for ASE certification.
- AER 2890 L1 Auto Adv. Engine Performance Specialty ASE Test Prep (O)** **1 credit**  
This course is a comprehensive review of all phases of advanced engine performance specialties including diagnosis and repair service for automobiles, SUV's and light trucks for ASE certification.
- ARR 1002 Auto Body I (O)** **3 credits**  
This course teaches Auto Body Shop operations, procedures, and equipment. This includes metal surface preparation, abrasives, plastics, primers, topcoats, and their applications. Lab fee \$25.00.
- DIM 1001 Introduction to Diesel Engines (O)** **4 credits**  
This course teaches the theory, operation, troubleshooting, and repair of a diesel engine. This includes the fuel injection, lubrication, cooling, electrical, intake and exhaust systems. Lab fee \$30.00.
- AER V014 Automotive Services Assistor I (O)** **150 hours**  
This course teaches shop equipment, tool safety, routine maintenance, and consumer services related to the automotive industry. Lab fee \$30.00.
- AER V015 Automotive Services Assistor 2 (O)** **150 hours**  
This course teaches shop equipment, tool safety, routine maintenance, and consumer services related to the automotive industry. Topics and shop exercises include the fundamental under the hood services and identifying appropriate maintenance. Upon successful completion of this course, a student is prepared to enter the workforce as an Automotive Services Assistor. Prerequisite: AER V014. Lab fee \$30.00.
- AER V110 Engine Repair Technician (O)** **150 hours**  
This course teaches skills to overhaul or rebuild internal combustion engines and perform engine related services. Recommended prerequisite: AER V014, AER V015. Lab fee \$30.00.
- AER V453 Automotive Suspension & Steering Technician (O)** **150 hours**  
This course teaches skills to diagnose and repair steering and suspension problems. The students also learn to diagnose and repair supplemental restraint and ride control systems. Recommended prerequisite: AER V014, AER V015. Lab fee \$40.00.
- AER V418 Auto Brake Systems Technician (O)** **150 hours**  
This course teaches the skills to diagnose and repair automotive braking systems with conventional or anti-lock brake characteristics. Topics include operating and servicing of automotive brake systems, drum brakes, disc brakes, power assist units, and miscellaneous (wheel bearings, parking brakes, electrical, etc.) diagnosis and repair. Recommended prerequisite: AER V014, AER V015. Lab fee \$35.00.
- AER V891 Auto Engine Performance Tech I (O)** **150 hours**  
This course teaches the skills to diagnose and repair problems related to both automatic and semi-automatic temperature controls. Students also learn to diagnose engine performance problems through the use of computerized information systems and four gas analyzers. Prerequisite: AER V014, AER V015, AER V691, AER V692. Lab fee \$40.00.

- AER V892 Auto Engine Performance Tech II (0) 150 hours**  
 This course provides the skills needed to diagnose and repair engine performance problems related to the fuel, air induction, exhaust, and catalytic converter systems. The students also learn to diagnose drivability problems related to emission controls and computerized sensor malfunctions. Prerequisite: AER V014, AER V015, AER V691, AER V692, AER V891. Lab fee \$40.00.
- AER V257 Automatic Transmission/Transaxles (0) 150 hours**  
 This course teaches the skills to diagnose, repair, and rebuild automatic transmissions and transaxles. Prerequisite: AER V014, AER V015, AER V 691, AER V692. Lab fee \$30.00.
- AER V274 Manual Drive Train/Axle Tech (0) 150 hours**  
 This course teaches the skills to diagnose, repair, and rebuild manual transmissions and transaxles, diagnose and repair driveline and related components including clutches, drive axles, differentials, and four wheel drive transfer case repair. Students diagnose and repair four wheel and all wheel drive vehicles and their related components. Recommended prerequisite: AER V014, AER V015. Lab fee \$30.00.
- AER V691 Automotive Electric/Electronics System Tech I (0) 150 hours**  
 This course teaches the skills needed to diagnose and repair electrical problems found in the battery, starting system, charging system, and their related electronic circuitry. Students learn to diagnose fuel system problems and perform cylinder head and valve services. Recommended prerequisite: AER V014, AER V015. Lab fee \$30.00.
- AER V692 Automotive Electric/Electronics System Tech II (0) 150 hours**  
 This course teaches advanced skills to diagnose and repair electrical problems related to lighting systems, gauges, warning devices, driver information systems, horns, and windshield wiper/washer controls. Prerequisite: AER V691. Recommended prerequisite: AER V014, AER V015. Lab fee \$30.00.
- AER V172 Auto Heat/Air Conditioning Tech (0) 150 hours**  
 This course provides the skills needed to diagnose and repair rear defoggers, cruise controls, and passenger restraint systems. Students also learn to diagnose and repair air conditioning compressor clutch controls, and replace evaporators, driers, and condensers. Recommended prerequisite: AER V014, AER V 015. Lab fee \$40.00.
- ARR V101 Automotive Collision Repair and Refinishing I (0) 150 hours**  
 This course teaches shop and occupational safety skills, employability skills, and comprehending and complying with requirements concerning legal liability and consequent insurance implications. Lab fee \$25.00.
- ARR V102 Automotive Collision Repair and Refinishing II (0) 150 hours**  
 This course teaches different procedures for preparing vehicles for repair and refinishing and replacement and adjustment of outer body panels. Prerequisite: ARR V101. Lab fee \$25.00.
- ARR V103 Automotive Collision Repair and Refinishing III (0) 150 hours**  
 This course teaches different procedures for applying appropriate paints and finishes and an understanding of entrepreneurship. Prerequisite: ARR V101, ARR V102. Lab fee \$25.00.
- ARR V104 Automotive Collision Repair and Refinishing IV (0) 150 hours**  
 This course teaches procedures for occupational safety skills and preparing vehicles for repair. Prerequisite: ARR V101, ARR V102, ARR V103. Lab fee \$25.00.
- ARR V105 Automotive Collision Repair and Refinishing V (0) 150 hours**  
 This course teaches different procedures for structural damage analysis and the repair of vehicle structure. Prerequisite: ARR V101, ARR V102, ARR V103. Lab fee \$25.00.
- ARR V106 Automotive Collision Repair and Refinishing VI (0) 150 hours**  
 This course teaches procedures for adjustment of outer body and welding operations. Prerequisite: ARR V101, ARR V102, ARR V103. Lab fee \$25.00.

- ARR V107 Automotive Collision Repair and Refinishing VII (0)** 200 hours  
This course teaches instruction in the procedures for maintaining spray equipment and the causes of finish defects. Prerequisite: ARR V101, ARR V102, ARR V103. Lab fee \$25.00.
- ARR V108 Automotive Collision Repair and Refinishing VIII (0)** 150 hours  
This course teaches procedures for adjustment of outer body panels and welding operations. Prerequisite: ARR V101, ARR V102, ARR V103. Lab fee \$25.00.
- ARR V109 Automotive Collision Repair and Refinishing IX (0)** 150 hours  
This course teaches procedures for preparation of metal parts and panels required in automotive finishing. Prerequisite: ARR V101, ARR V102, ARR V103. Lab fee \$25.00.

**BARBERING**

- COS V500C Introduction to Barbering (0)** 150 hours  
This course teaches safety rules and procedures, school, classroom/laboratory procedures. It provides competencies in hair shampooing and conditioning, trimming and shaping hair using clippers, shears and razors. Lab fee \$100.00.
- COS V351C Haircutting, Mustache and Beard Design (0)** 150 hours  
This course provides instruction in hair shaping and mustache and beard design. Students also study the selection of proper haircutting implements and style selection. Corequisite: COS V500C.
- COS V070C Job Prep, Florida Law & State Board Review (0)** 150 hours  
This course provides instruction in Florida law, rules, and regulations related to the practice of barbering and salon ownership. Students become familiar with employability skills and study State Board of Barbering requirements. Prerequisite: COS V500C.
- COS V700C Chemistry of Haircoloring for Barbers (0)** 150 hours  
This course provides instruction in all types of hair coloring and bleaching. Instruction includes analysis of hair and scalp and the selection of correct supplies, products and equipment. Prerequisite: COS V500C.
- COS V530C Chemical Processes of Hair (0)** 150 hours  
This course teaches skills in permanent wave, reconstruction curl, and chemical relaxing. Prerequisite: COS V500C.
- COS V350C Shaving (0)** 150 hours  
This course teaches competencies in shaving. Prerequisite: COS V500C.
- COS V510C Barber Styling (0)** 150 hours  
This course teaches competencies in hair styling. Corequisite: COS V500C.
- CSP V240C Anatomy & Physiology for Barbers (0)** 150 hours  
This course provides instruction in the anatomy, histology, and physiology of the hair, head, and skin related to barbering. Prerequisite: COS V500C.

**BIOLOGY**

- BSC 1005 Life Science (P)** 3 credits  
This introductory level course is designed for nonscience majors. It illustrates the applications of the scientific method of problem solving within the field of life science. Topics of the investigation include properties of life, chemistry of life, structure and function of cells, cell reproduction, plant structure and function, and representative human systems. Prerequisite: Student must score into college-level reading on placement test.
- BSC 1005L Life Science Lab (P)** 1 credit  
This lab course is designed for nonscience majors. Students gain laboratory experiences in the areas of properties of life, chemistry of life, structure and function of cells, cell reproduction, plant structure and function, and representative human systems. Prerequisite: Student must score into college-level reading on placement test. Prerequisite/Corequisite: BSC 1005. Lab fee \$30.00.



- BSC 2010 General Biology I (P)\*** **3 credits**  
This course is designed for science majors. The course covers cell structure and function, the chemical basis for life, cell metabolism, cell reproduction and inheritance, and a survey of viruses, bacteria, and fungi. It is recommended that students taking this course continue in BSC 2011. Prerequisite: Student must score into college-level mathematics and reading on placement test. Recommended Prerequisite/Corequisite: CHM 1045 or CHM 1020. Corequisite: BSC 2010L.
- \*Students who have completed BSC 1005 cannot meet their science requirement for graduation by taking BSC 2010. If BSC 2010 and BSC 2010L are needed, BSC 1005 counts only as an elective.
- BSC 2010L General Biology I Lab (P)** **1 credit**  
This is the lab component for BSC 2010. Lab experiences include cell structure and function, the chemical basis for life, cell metabolism, cell reproduction and inheritance, viruses, bacteria, and fungi. Prerequisite: Student must score into college-level mathematics and reading on placement test. Prerequisite/Corequisite: BSC 2010. Lab fee \$30.00.
- BSC 2011 General Biology II (P)** **3 credits**  
This is a continuation of BSC 2010. Topics include a survey of the plant and animal kingdoms, comparative physiology of vertebrate systems, plant and animal development, and ecology. Prerequisite: BSC 2010, BSC 2010L. Corequisite: BSC 2011L.
- BSC 2011L General Biology II Lab (P)** **1 credit**  
This is the lab component for BSC 2011. Lab experiences include plant and animal kingdoms, comparative physiology of vertebrate systems, plant and animal development, and ecology. Prerequisite/Corequisite: BSC 2011. Lab fee \$30.00.
- BSC 1084 Survey of the Human Body (P)** **4 credits**  
This is a one-semester course designed to cover basic information necessary for a general understanding of the structure and function of the human body. The course emphasizes how systems work together to achieve homeostasis. Prerequisite: Student must score into college-level reading on placement test.
- BSC 2093 Anatomy and Physiology I (P)** **3 credits**  
As the first semester of a two-semester sequence, this course studies regional and systemic anatomy and physiology of the human body. Emphasis is placed on histology and the integumentary, skeletal, muscular, and nervous systems. During the first two weeks of class, students are tested in prerequisite materials such as simple chemistry, cell structure, biochemistry, metabolism, and molecular genetics. Prerequisite: BSC 2010, BSC 2010L and student must score into college-level mathematics and reading on placement test. Corequisite: BSC 2093L.
- BSC 2093L Anatomy and Physiology I Lab (P)** **1 credit**  
This is the lab component for BSC 2093. Lab experiences include the histology and the integumentary, skeletal, muscular, and nervous systems. Prerequisite: Student must score into college-level mathematics and reading on placement test. Prerequisite/Corequisite: BSC 2093. Lab fee \$30.00.
- BSC 2094 Anatomy and Physiology II (P)** **3 credits**  
This is a continuation of BSC 2093, studying the anatomy and physiology of human systems. Topics covered are the circulatory, digestive, respiratory, excretory, endocrine, and reproductive systems. Prerequisite: BSC 2093, BSC 2093L. Corequisite: BSC 2094L.
- BSC 2094L Anatomy and Physiology II Lab (P)** **1 credit**  
This is the lab component for BSC 2094. Lab experiences include the circulatory, digestive, respiratory, excretory, endocrine, and reproductive systems. Prerequisite: BSC 2093, BSC 2093L. Pre/Corequisite: BSC 2094. Lab fee \$30.00.

**MCB 2010 Microbiology for Health Sciences (P) 3 credits**

This course is a survey of the structure, physiology, genetics, and control of microorganisms, including an overview of the medical importance of viruses, bacteria, protozoans, and multicellular parasites. Host-parasite interactions, including specific and nonspecific immunity are also examined. Prerequisite: BSC 2010, BSC 2010L. Corequisite: MCB 2010L.

**MCB 2010L Microbiology Lab for Health Sciences (P) 1 credit**

This is the lab component for MCB 2010. Lab experiences include the following topic areas of viruses, bacteria, protozoans, and multicellular parasites. Prerequisite/Corequisite: MCB 2010. Lab fee \$30.00.

**BSC 1421 Introduction to Biotechnology (P) 3 credits**

This course teaches the theoretical basis of biotechnology (including fundamental cell and molecular biology) and a survey of biotechnology applications and issues. Prerequisite: Student must score into college-level reading on placement test.

**BSC 1421L Introduction to Biotechnology Laboratory (P) 1 credit**

This course introduces techniques used in modern biotechnology laboratories, including preparation of solutions and media, aseptic transfer, nucleic acid techniques, and data collection and handling. This is the laboratory for BSC 1421. Corequisite: BSC 1421. Lab fee \$30.00.

**BSC 2426 Biotechnology I (P) 3 credits**

This course teaches an in-depth survey of concepts, processes and issues related to the modern biotechnology industry, including areas of research, production and processing. Course content encompasses relevant topics in medicine, agriculture, aquaculture, forensics and commercial production. Prerequisite: BSC 1421, BSC 1421L, BSC 2010, BSC 2010L. Corequisite: BSC 2426L.

**BSC 2426L Biotechnology I Laboratory (P) 1 credit**

This course teaches an in-depth survey of concepts, processes and skills used in modern biotechnology facilities, including areas of research, production and processing. Course content encompasses relevant topics in research and application in medical, agricultural, aquaculture, and forensics laboratories. Prerequisite: BSC 1421, BSC 1421L, BSC 2010, BSC 2010L. Corequisite: BSC 2426. Lab fee \$30.00.

**BSC 2427 Biotechnology II (P) 3 credits**

This course teaches theory and applications of biotechnology relevant to medical, environmental and agricultural industries. The course builds upon BSC 1421 and BSC 2426. Prerequisite: BSC 2426, BSC 2426L. Corequisite: BSC 2427L.

**BSC 2427L Biotechnology II Laboratory (P) 1 credit**

This course teaches laboratory skills in biotechnology relevant to medical, environmental and agricultural industries. The course builds upon BSC 1421L and BSC 2426L. Prerequisite: BSC 2426, BSC 2426L. Corequisite: BSC 2427.

**BOT 2010 General Botany (P) 3 credits**

This course teaches structure, function, reproductive life cycle, growth, interaction with the environment, and evolution of plant life. As a course for science majors, topics include plant cell and energy metabolism, histology, genetics, biotechnology and propagation, and taxonomic studies of plant groups. Prerequisite: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L. Corequisite: BOT 2010L.

**BOT 2010L General Botany Lab (P) 1 credit**

This is the laboratory component for BOT 1010. Topics include the architecture and function of the plant cell, histology of the plant organs, primary and secondary growth, hormonal and environmental factors that affect growth, plant propagation, and taxonomic survey of plant groups. Prerequisite: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L. Corequisite: BOT 2010.

- BSC 1254 Tropical Marine Ecology (P)** **3 credits**  
This is an introductory course for non-science majors, utilizing basic scientific methodology in understanding the interrelationships between various marine tropical communities. Topics include the geology of the Atlantic and the Caribbean, marine flora and fauna – their physical, chemical and biological aspects, subtropical and tropical coastal, estuarine and intertidal communities, tropical nearshore communities – mangrove, seagrass and coral reef ecosystems, and biodiversity of the marine environment. Students study the adaptation of marine life in surface waters and in deep ocean and the effects of pollution on tropical marine ecosystems.
- BSC 1254L Tropical Marine Ecology Lab (P)** **1 credit**  
This is an introductory tropical marine ecology field course for non-science majors. Students participate in a three day hands-on field trip to the Florida Keys. This course exercises basic science skills in fieldwork methodology, such as field observations, notetaking and data collection, taxonomic identification of community species, and the evolutionary processes involved in marine species community relationship development. Emphasized aspects of studies include population dynamics of marine communities that make up the coral reef ecosystem in the Florida Keys and understanding biodiversity and species role in interrelationships within coral reef communities of the marine environment. Corequisite: BSC 1254.
- BSC 1009 The Living World (P)** **3 credits**  
This course teaches a survey of living organisms with an emphasis on natural history, anatomy, physiology, evolutionary relationships, ecology, and behavior. Prerequisite: Student must score into college-level reading on placement test.
- BSC 2930 Special Topics in Biological Science (P)** **1 - 3 credits**  
This course develops scientific knowledge on special topics in biology. Topics reflect popular interests of scientific research or of the local community. Potential interests may be in the fields of microbiology, botany, zoology, physiology, or ecology. Prerequisite: Student must score into college-level English, mathematics and reading on placement test.
- OCE 2001 Introduction to Oceanography (P)** **3 credits**  
This course introduces non-science majors to the fundamentals, principles and procedures of physical, geological, chemical and biological oceanography. This multi-disciplinary approach to understanding oceanographic processes and ecosystems explores the origins of oceanography, physical and chemical features of seawater and ocean sediments. It explores ocean basins, plate tectonics and oceanic climate; discovers the waves, tides and ocean currents and life in the oceanic ecosystem, and introduces the oceanic lifestyles of plankton, benthos and nekton.
- OCE 2001L Oceanography Lab (P)** **1 credit**  
This course, the lab component for OCE 2001, teaches interdisciplinary aspects of physical, geological, chemical and biological oceanography. Students become acquainted with basic scientific and oceanographic concepts through hands-on studies and exploration of oceanic environments and are introduced to state-of-the art oceanographic field equipment. Corequisite: OCE 2001. Lab fee \$30.00.
- IDS 1920 Workshop for Math and Science Educators (P)** **½ - 3 credits**  
This course teaches participants to explore concepts in science and math through the enhancement of subject knowledge and integration of hands-on activities into the math and science curriculum. Topics and activities vary based upon current research activities and educational initiatives.

- OCB 2930 Special Topics in Marine Science (P)** **3 - 4 credits**  
This course centers around topics of current interest in marine science, or of special interest to students or instructors. Topics focus may vary from semester to semester and may include topics such as aquaculture, ocean engineering, and marine biotechnology.
- OCB 1000 Introduction to Marine Biology (P)** **3 credits**  
This course is for non-science majors. It explores the natural history of marine organisms, their taxonomic relationships and their interactions with each other. The evolutionary processes of various marine organisms and the scheme of biological classification are introduced. The fundamentals of marine biological science are provided with special emphasis placed upon observable major marine phyla in the local area and the interrelationships between individual organisms within these phyla and how they relate to world wide marine environments.
- OCB 1000L Introduction to Marine Biology Lab (P)** **1 credit**  
This course, the lab component for OCB 1000, is an introductory lab and field survey of local marine waters as they relate to marine species and their environments worldwide. Emphasis is placed on the major marine phyla in the local area and the interrelationships between those phyla and their environments. Field trips to local marine areas are required, including marine biodiversity studies, invertebrate anatomy and physiology, and an all-day field trip to Sea World. Corequisite: OCB 1000. Lab fee \$30.00.
- OCB 1630 Marine Ecology (P)** **3 credits**  
This course introduces non-science majors to the fundamentals of marine ecology as a foundation for understanding marine ecosystems and explores population and community ecology within major marine ecosystems. The course is based on the geological history of the Atlantic shoreline, how marine communities developed and changed and how marine invaders dominated and competed with local flora and fauna to form current ecosystems.
- OCB 1630L Marine Ecology Lab (P)** **1 credit**  
This course, the lab component for OCB 1630, includes two all-day field trips to survey local flora and fauna by exploring the nearshore environment such as estuaries, intertidal zone, mangrove, seagrass and beach plant communities, and progresses to address an understanding of ecology and biodiversity of the marine environment. At the Fort Pierce Inlet, students explore intertidal communities, study mud flats, sand flats, rocky intertidal and dune communities. During an all-day kayak field trip to Sebastian Inlet, the diversity, adaptations and survival strategies of marine life in various nearshore communities such as mangrove and seagrass communities is also explored. While in the field students learn how to collect organisms for further physiological studies in the laboratory. Corequisite: OCB 1630. Lab fee \$30.00.
- PCB 1030 Introduction to Ecology (P)** **3 credits**  
This course provides a survey of the interrelationships between living organisms and their physical environment, including an overview of animal and plant physiology, chemical cycles, and the various ecosystems on earth. Present day ecological problems are discussed, along with ecological aspects of humans and implications for the future. Prerequisite: Student must score into college-level reading on placement test.
- BCH 4053 Biochemistry I (U)** **3 credits**  
This course examines the structure and function of proteins, membranes and cellular constituents, enzyme catalysts, and carbohydrate metabolism. Prerequisite: BSC 2011, BSC 2011L, CHM 2211, CHM 2211L with a grade of "C" or higher. Corequisite: BCH 4053L.
- BCH 4053L Biochemistry I Laboratory (U)** **1 credit**  
This course is the laboratory component for BCH 4053 and examines the structure and function of proteins, membranes and cellular constituents, enzyme catalysts, and carbohydrate metabolism. Prerequisite: BSC 2011, BSC 2011L, CHM 2211, CHM 2211L with a grade of "C" or higher.

- BCH 4054 Biochemistry II (U)** **3 credits**  
This course is a continuation of BCH 4053 and describes the chemistry of living systems and the biological phenomena that results from the interaction among systems. Prerequisite: BCH 4053, BCH 4053L with a grade of "C" or higher.
- BSC 3931 Junior Seminar I (U)** **1 credit**  
This course is the first part of a two semester sequence for junior biology majors. Students read and discuss selected examples of the scientific literature in biology.
- BSC 3932 Junior Seminar II (U)** **1 credit**  
This course is the second part of a two semester sequence. Students read and discuss selected examples of the scientific literature in biology and write a scientifically valid proposal in preparation for their senior research project. Prerequisite: BSC 3931 with a grade of "C" or higher.
- BSC 4422 Applications in Biotechnology (U)** **3 credits**  
This course provides a survey of the biological, biomedical, ecological applications and ethical aspects of biotechnology in industry, agriculture, and medicine. Prerequisite: BSC 2427, BSC 2427L with a grade of "C" or higher.
- BSC 4910 Senior Project I (U)** **1 credit**  
This course is for students conducting research projects under the supervision of an instructor. It is intended to help students acquire skills in applying research principles and obtaining practice in rigorous data collection and reporting. Prerequisite: BSC 3931, BSC 3932 with a grade of "C" or higher.
- BSC 4911 Senior Project II (U)** **1 credit**  
Students participate in research project(s) under the supervision of an instructor and/or researcher. This course helps students acquire skills working directly on a project that applies research principles and practice in rigorous data collection and reporting. Prerequisite: BSC 4910 with a grade of "C" or higher.
- MCB 3023 General Microbiology (U)** **3 credits**  
This course is an introduction to the biology of microorganisms. Concepts include the structure, physiology, and ecology of bacteria, protists, viruses, and fungi. Prerequisite: BSC 2011, BSC 2011L with a grade of "C" or higher. Corequisite MCB 3023L.
- MCB 3023L General Microbiology Laboratory (U)** **1 credit**  
This course is the laboratory component for MCB 3023. Lab experiences include the structure, physiology, and ecology of bacteria, protists, viruses, and fungi. Prerequisite: BSC 2011, BSC 2011L with a grade of "C" or higher.
- PCB 3674 Evolutionary Biology (U)** **3 credits**  
This course is an introduction to modern evolutionary theory. Population genetics, adaptation, speciation theory, phylogeny, human evolution and other related topics are discussed. Prerequisite: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L with a grade of "C" or higher.
- PCB 4023 Cell Biology and Physiology (U)** **3 credits**  
This course is a study of cell structure and function with emphasis on the properties of intracellular organelles and their molecular constituents. Prerequisite: BSC 2011, BSC 2011L, CHM 1046, CHM 1016L with a grade of "C" or higher.
- PCB 4024 Molecular and Cell Biology (U)** **3 credits**  
This course is study of process biology, including cell biology, molecular biology, ecology, genetics, and physiology. Prerequisite: BSC 2011, BSC 2011L, CHM 1046, CHM 1046L, PCB 3063, PCB 3063L with a grade of "C" or higher.

- PCB 4024L Molecular and Cell Biology Laboratory (U)** **1 credit**  
This course is the laboratory component of PCB 4024. The lab exercises are designed to study process biology, including cell biology, molecular biology, ecology, genetics, and physiology. Prerequisite: BSC 2011, BSC 2011L, CHM 1046, CHM 1046L, PCB 3063, PCB 3063L with a grade of "C" or higher.
- PCB 4233 Immunology (U)** **3 credits**  
This course examines the tissues, cells, and biochemical components of the immune system and the role of immune responses in diagnosis and prevention of disease. Prerequisite: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, MCB 3023, MCB 3023L, CHM 2211, CHM 2211L, BCH 4053 with a grade of "C" or higher.
- BSC 4434 Introduction to Bioinformatics (U)** **3 credits**  
This course teaches the computational techniques for biological sequence analysis. Special topics include data file formats, accessing public databases for retrieval and submission, analysis using common scientific and computer tools, and scripting. Prerequisite: BSC 2426, BSC 3226L with a grade of "C" or higher.
- BOT 3015 Plant Biology (U)** **3 credits**  
This course teaches the evolutionary relationships, life histories, structural and functional relationships of structures, and ecological adaptations of plants, fungi, selected protista and prokaryotes. This course is specifically for the Bachelor of Science Education. Prerequisite: BSC 2011, BSC 2011L.
- BOT 3015L Plant Biology Laboratory (U)** **1 credit**  
This is the laboratory component of BOT 3015L. Topics include the architecture and function of the plant cell, histology of the plant organs, primary and secondary growth, hormonal and environmental factors that affect growth, plant propagation, and taxonomic survey of plant groups. Prerequisite: BSC 2010, BSC 2010L, and BSC 2011, BSC 2011L. Corequisite: BOT 3015.
- PCB 3063 Introduction to Genetics (U)** **3 credits**  
This course teaches fundamental principles of heredity, genetic variation and molecular genetics of prokaryotic and eukaryotic organisms. Prerequisite: BSC 2010, BSC 2010L, CHM 2210, CHM 2210L.
- PCB 3063L Introduction to Genetics Laboratory (U)** **1 credit**  
This course, the laboratory component of PCB 3063, demonstrates fundamental principles and applications involving heredity, genetic variation and molecular genetics of prokaryotic and eukaryotic organisms. Prerequisite: BSC 2010, BSC 2010L, CHM 2210. Corequisite: PCB 3063.
- PCB 4043 General Ecology (U)** **3 credits**  
This course teaches an introduction to ecological processes and concepts of natural populations, communities and ecosystems. Prerequisite: BSC 2011, BSC 2011L. Corequisite: PCB 4043L.
- PCB 4043L General Ecology Laboratory (U)** **1 credit**  
This course teaches fundamental skills, sampling methods and data analysis used in ecological studies of natural populations, communities and ecosystems. Lab fee \$40.00. Prerequisite: BSC 2011, BSC 2011L. Corequisite: PCB 4043.
- ZOO 3303C General Vertebrate Zoology (U)** **4 credits**  
This course teaches a phylogenetic survey of early chordates and vertebrates stressing comparative aspects of morphology development and ecology. Prerequisite: BSC 2010, BSC 2010L with BSC 2011, BSC 2011L or BSC 2093, BSC 2093L.

**BROADCAST COMMUNICATIONS/JOURNALISM - PUBLIC RELATIONS**

**JOU 1100 News Reporting and Writing (P) 3 credits**  
This course includes instruction and practice in news writing for newspaper and broadcast media with emphasis on newspapers. Functions of media, media organization, news standards, ethics, media law and news judgment are discussed thoroughly. Reporting techniques, interviewing skills and the basic process of news production are covered. This course serves as a foundation for editing and advanced-reporting courses as well as journalism labs. Pre/Corequisite: ENC 1101.

**MMC 1000 Survey of Mass Communication (P) 3 credits**  
This course is an introduction to the various media of mass communication with special emphasis on the roles and responsibilities to society and the public served.

**BUILDING CONSTRUCTION TECHNOLOGY**

**BCN 1214 Materials and Methods of Construction-Basic Structure (O) 3 credits**  
This course teaches how various materials and construction methods associated with site construction; concrete, masonry, metals, and wood and plastics (MasterFormat sections 1-6); affect the construction cost, total life, and maintenance cost of a building. The merits of new materials and methods are introduced and compared to existing products and methods. The major focus is from a builder's perspective emphasizing proper installation procedures and processes.

**BCN 1215 Materials & Methods of Construction-Finishes & Systems (O) 3 credits**  
This course teaches and examines how various materials and construction methods associated with thermal and moisture protection; doors and windows, interior finishes, specialties and equipment, electrical, mechanical (MasterFormat section 7-16); affect the construction cost, total life, and maintenance cost of a building. The merits of new materials and methods are introduced and compared to existing products and methods. The major focus is from a builder's perspective emphasizing proper installation procedures and processes.

**BCN 2275 Plans Interpretation-Commercial (O) 3 credits**  
Students read and interpret symbols found on commercial and light industrial blueprints. Building materials, structural concepts, handicap requirements, types of drawings, foundation systems, symbols, and conventions are investigated. Students examine differences between steel-frame and reinforced-concrete buildings as well as mechanical, electrical, and plumbing features.

**BCN 1763 Florida Energy Code (O) 1 credit**  
This course explains the design and construction details needed to comply with the Florida Home Energy Code. Discussions include mechanical systems, electrical systems, illumination systems, and construction materials used in residential construction of adequate thermal resistance, low air leakage, and energy efficient homes.

**BCN 1272 Plans Interpretation - Residential (O) 3 credits**  
This course presents the processes, terms, symbols, and conventions used by the residential construction industry. In addition to the fundamental principles used in reading residential plans, the student performs builder's math calculations relating to plans interpretation.

**BCN 1779 Construction Process and Procurement (O) 1 credit**  
This course examines the basic elements of the design-bid-build process. The relationship between information, risk, and procurement are discussed. Focus is placed on the role, timing, and thinking of suppliers, subcontractors, general contractors, and construction managers.

- BCA V153 Masonry IV (0)** **80 hours**  
This course teaches building layout with specifications and construction drawings. Prerequisite: BCA V152. Corequisite: BCA V160.
- BCA V154 Masonry V (0)** **80 hours**  
This course teaches an in-depth study of foundation building materials and cost estimation, and operation of power equipment. Prerequisite: BCA V153. Corequisite: BCA V160.
- BCA V155 Masonry VI (0)** **80 hours**  
This course teaches concrete pouring with the use and maintenance of hand and power tools. Prerequisite: BCA V154. Corequisite: BCA V160.
- BCA V160 Apprenticeship-Masonry On-the-Job Training (0)** **600 - 640 hours**  
This course teaches the essential competencies in the masonry industry work environment.
- BCA V310 Line Erector I (0)** **90 hours**  
This course teaches the introductory skills to transmission and distribution, including safety, maintenance, and rigging for entry level utility employees.
- BCA V311 Line Erector II (0)** **90 hours**  
This course teaches the proper uses of the tools and equipment for advanced rigging, and line test equipment. First year apprentices are introduced to hydraulic derricks and digging equipment, and the two types of bucket trucks that are commonly used in line work.
- BCA V312 Line Erector III (0)** **90 hours**  
This course teaches how to obtain information from blueprints for the setting and replacing of utility poles, and analyzing schematics to determine the causes of power outages and fluctuating voltage.
- BCA V313 Line Erector IV (0)** **90 hours**  
This course teaches the proper methods and concepts for working on and repairing distribution lines in new installations and removal of existing power lines.
- BCA V314 Line Erector V (0)** **90 hours**  
This course teaches the proper methods and concepts for working on energized power lines. Problem solving skills and safety are emphasized.
- BCA V315 Line Erector VI (0)** **90 hours**  
This course teaches the concepts and proper methods of installing URD (Underground Residential Distribution) systems. The causes and location of residential power outages are examined.
- BCA V316 Line Erector VII (0)** **90 hours**  
This course teaches how to fix faulty or broken cable, identify cable sizes and proper methods of splicing cables using hydraulic hand tools. Transmission line safety is emphasized.
- BCA V317 Line Erector VIII (0)** **90 hours**  
This course teaches the installation and maintenance of transmission lines. Different types of transmission structures are examined.
- BCA V318 On-the-Job Training for Line Erector (0)** **667 hours**  
This course teaches the hands on skills for line erector apprentices to implement and practice the essential competencies in the utilities industry. This course is taught in conjunction with the theoretical concepts introduced in the classroom.
- BCA V349 Apprenticeship-Electrical On-the-Job Training (0)** **592 - 640 hours**  
This course is taught in conjunction with Apprenticeship-Electrical to enable the student to implement and practice the essential competencies in the electrical industry work environment. The course uses authentic learning strategies through on-the-job training, helping students implement the theoretical concepts introduced in the classroom. Prerequisite: permission of instructor.



- BCA V350 Apprenticeship-Electrical 1 (0) 90 hours**  
This course develops the essential competencies for working in the construction electrical industry. These competencies include safety practices, direct-current electrical-circuit skills, appropriate communication and math skills, basic electricity and electrical codes, and employability skills. Prerequisite: permission of instructor. Corequisite: BCA V349.
- BCA V351 Apprenticeship-Electrical 2 (0) 90 hours**  
This course is a continuation of BCA V350 and is taught in conjunction with the work activities of BCA V349. This course enhances the competencies related to safety practices, the direct-current electrical circuit, communication, math applications, electric codes and employability skills. Prerequisite: permission of instructor. Corequisite: BCA V349.
- BCA V352 Apprenticeship-Electrical 3 (0) 90 hours**  
This course is a continuation of BCA V351 and is taught in conjunction with the work activities of BCA V349. This course provides students with electrical math instruction and alternating-current circuit skills. Prerequisite: BCA V351 and permission of instructor. Corequisite: BCA V349.
- BCA V353 Apprenticeship-Electrical 4 (0) 90 hours**  
This course is a continuation of BCA V352 and is taught in conjunction with the work activities of BCA V349. This course develops the competencies needed for employment in the residential electrical industry including electrical math, alternating-current circuit, and troubleshooting residential electric circuits. Prerequisite: BCA V352 and permission of instructor. Corequisite: BCA V349.
- BCA V354 Apprenticeship-Electrical 5 (0) 90 hours**  
This course is a continuation of BCA V353 and is taught in conjunction with the work activities of BCA V349. This course develops the competencies in the installation of residential wiring. Prerequisite: BCA V353 and permission of instructor. Corequisite: BCA V349.
- BCA V355 Apprenticeship-Electrical 6 (0) 90 hours**  
This course is a continuation of BCA V354 and is taught in conjunction with the work activities of the BCA V349. This course teaches an in-depth knowledge of the installation of residential wiring. Prerequisite: BCA V354 and permission of instructor. Corequisite: BCA V349.
- BCA V356 Apprenticeship-Electrical 7 (0) 90 hours**  
This course is a continuation of BCA V355 and is taught in conjunction with the work activities of BCA V349. This course develops competencies for commercial wiring installation. Prerequisite: BCA V355 and permission of instructor. Corequisite: BCA V349.
- BCA V357 Apprenticeship-Electrical 8 (0) 90 hours**  
This course is a continuation of BCA V356 and is taught in conjunction with the work activities of BCA V349. This course develops competencies for commercial wiring installation. Prerequisite: BCA V356 and permission of instructor. Corequisite: BCA V349.
- BCA V560 Carpentry Apprenticeship On-the-Job Training (0) 640 hours**  
This course teaches the student to implement and practice the essential competencies in the carpentry industry work environment. The course uses authentic learning strategies through on-the-job training, helping students implement the theoretical concepts introduced in the classroom. Prerequisite: permission of the instructor.
- BCV V949 Carpentry Practicum (0) 150 hours**  
This course provides additional experience that matches career objectives in carpentry standards through on-the-job training, and/or development of employability skills. This course implements employment competency expectations with practical experience in the lab setting or the workplace. Competencies developed in Residential Carpentry I through III are reinforced through the practicum. Opportunities to research industry concerns are included. Prerequisite: BCV V133.

- BCV V131 Residential Carpentry I (0) 300 hours**  
The course develops the competencies essential to the carpentry industry. Topics include safety practices, tool (manual and power) and equipment utilization, identification of building materials, fasteners and hardware, basic math and math applications, communication and blueprint reading, and background information on the construction industry in America.
- BCV V132 Residential Carpentry II (0) 300 hours**  
This course teaches in-depth skills and knowledge needed for trim and finish carpentry. Students learn to use blueprints and specifications to install exterior covering and trim, interior doors, interior walls, and ceiling coverings. Prerequisite: BCV V131.
- BCV V901 NCCER Green Advantage Certification Exam Prep (0) 15 hours**  
This course provides information about Green building including instruction on the Green environment, Green construction practices, and Green building rating systems. At the completion, students are eligible to take the NCCER (National Center for Construction Education and Research) Green Advantage Certification Exam.
- BCV V902 NCCER Core Construction Certification Exam Prep (0) 80 hours**  
This course provides information for entry level positions in the construction field. Topics include basic safety (10 hr OSHA), construction math, hand and power tools, blueprint reading, rigging, communication skills, and employability. Upon successful completion, students are eligible to take the NCCER (National Center for Construction Education and Research) Core Curriculum Certification Exam.
- BCV V133 Residential Carpentry III (0) 450 hours**  
This course teaches the skills needed for frame and form carpentry. Topics include blueprints and specifications, site preparation, framing members, walls and partition framing, roof framing, roof trusses, and sheathing. Also covered are use of a transit and a builder's level, construction of forms, installation of rigging and scaffolding, exterior doors and stairs, window units, tilt up and precast walls, structural timber, and roofing components. Prerequisite: BCV V132.
- BCA V001 Intro to Building Trades Apprenticeship (0) 36 hours**  
This course provides an introduction to the electrical, HVAC/R, and plumbing apprenticeships, as well as Green practices in building construction. Permission of instructor required.
- BCA V302 Building Trades Apprenticeship - Electrical (0) 54 hours**  
This course teaches entry level competencies for working in the electrical industry. These competencies include safety practices, direct-current electrical-circuit skills, appropriate communication and math skills, basic electricity and electrical codes. This course is taught in conjunction with the work activities of BCA V349.
- BCN P014 Construction Safety and Health (0) 10 hours**  
This course familiarizes contractors with occupational safety and health standards (OSHA) in the construction industry. Topics include Introduction to OSHA Standards; OSE Act; General Duty Clause 5(a)(1) and Competent Person; General Safety and Health Provisions, Subpart C; Health Hazard and Personal Protective Equipment; Fire Protection and Prevention; Material Handling, Storage, Use and Disposal; Tool Hand and Power, and Electrical. Must be a certified contractor.
- BCT P930 Special Topics in Construction (0) 1 - 99 hours**  
This course teaches basic skills in home improvement including weatherization, installation of solar panel systems, energy efficient solutions, common repairs, and construction safety. Additionally, hands-on experiences are offered in roof construction, safe demolition, gutters, siding, fascia, soffits, windows, doors, carpet and padding, drywall, insulation, painting, and textured walls and ceilings.

- BCT P699 Preparation for Master Electrician Exam (0) 45 hours**  
 This course prepares the Journeyman Electrician for the Master Electrician examination, which is required to obtain a Master Electrician License. Beginning with a review of basic electrical theory, the course upgrades the Journeyman's working knowledge with heavy reliance on data from the latest edition of the National Electrical Code for most classroom discussion. Prerequisite: BCT P610.
- BCT P610 Preparation for Journeyman Exam (0) 48 hours**  
 This course prepares the apprentice electrician for the Block Examination which is required to obtain a Journeyman's License. Among topics scheduled for discussion are installation, maintenance, and repair of residential electrical systems; safe and efficient work practices; and factors affecting efficiency and power.
- BCT P570 Journeyman Preparation for Plumbing (0) 40 hours**  
 This course prepares the experienced plumber for the block examination required to obtain a Journeyman License thereby upgrading skills level.
- BCT P935 Competent Person Update (0) 8 hours**  
 This course provides an update on OSHA regulations for contractors and others in the building trades, and satisfies the requirement for Competent Person Certification. Competent Person Certification must be renewed every two years. Student must be Competent Person Certified or working in the building industry.

**BUSINESS ADMINISTRATION AND MANAGEMENT**

- BUL 2241 Business Law I 3 credits**  
 This course presents American Law, Contract Law and Article II of the Uniform Commercial Code, which deals with the sale of goods. Through study of content and cases, the course teaches the fundamentals of preventive law, tort law, criminal law, the court system, and legal terminology.
- BUL 2242 Business Law II 3 credits**  
 This course focuses on commercial paper, debtor-creditor relations, agency law, business organizations, insurance, wills, estates, and trusts. Prerequisite: BUL 2241.
- ADV 2000 Advertising and Sales Promotion (0) 3 credits**  
 This course presents basic advertising terminology and strategy. It focuses on target analysis, media analysis, ad development, scheduling, and budgets; resulting in the individual development of an advertising campaign.
- ATT 1941 Professional Development in Aviation I 3 - 6 credits**  
 This course is for the student that has completed a private pilot ground school and/or instrument ground school and has passed an FAA licensing exam. Competency credits are awarded for proof of passing the appropriate FAA written examination.
- ATF 1941 Professional Development in Aviation II 2 - 9 credits**  
 This course is for the student that has completed a private pilot flight training, instrument flight training, and commercial pilot flight training programs. Competency credits are awarded for proof of passing the appropriate FAA flight program(s). Prerequisite: Documented passage of an FAA approved private pilot flight training, instrument flight training, and commercial pilot flight training program(s).
- GEB 1011 Introduction to Business 3 credits**  
 This course provides an overview of the economic system, the private business sector and its major components. No prerequisite courses or experiences are required for student enrollment.
- GEB 1350 Introduction to International Business 3 credits**  
 This course teaches understanding of the interdependence of globalized world economy and similarities and dissimilarities between domestic and international business domain.

- MNA 1821 Electronic Commerce (O)** **3 credits**  
This course teaches the concepts, tools, and strategies for understanding and exploiting opportunities associated with electronic commerce. Topics cover online ordering, interacting with firms and governments, and how businesses are organized and compete in the global marketplace. This course develops a strategic understanding of the new electronic marketplace based on fundamental economics of the digital economy. Student must possess basic computer skills and knowledge of Internet.
- MNA 2100 Interpersonal Relations in Business (O)** **3 credits**  
This course helps business management students build their awareness of the major interpersonal challenges facing modern managers. Through theory and experimental activities, the student develops skills in leadership, communications, and motivation.
- MNA 2761 Strategic Planning (O)** **1 - 3 credits**  
This course teaches the needs of an organization to engage in systematic long-term planning. Through environmental analysis, the course emphasizes the strategy formulation process, including development, implementation, and control. Additionally, SWOT analysis, value-based management, the business life cycle phases and managing expectations are also included in the course content.
- MNA 2767 Contemporary Techniques of Supervision (O)** **1 credit**  
This course provides practicing or aspiring supervisors with the skills necessary to increase their effectiveness in first-line or middle-management positions.
- MNA 2772 Human Relations in the Workplace (O)** **1 credit**  
This course presents skills necessary to improve the quality of interpersonal relationships, emphasizing, through an experiential approach, the development of a personal sense of positive self image and control.
- MNA 2781 Communications in the Workplace (O)** **1 - 3 credits**  
This course teaches the skills and traits necessary in effective organizational communications. The class focuses on developing and understanding important skills such as oral, written, nonverbal, and formal communications.
- MNA 2932 Professional Development (O)** **½ - 5 credits**  
This course is custom-designed, each time offered, to enable participating students to develop and refine skills necessary to be an effective leader in an identified employment setting. The course focuses on developing an understanding and recognition of skills such as effective communications techniques, interpersonal relations concepts, decision-making, motivation, as well as time and stress management, most required in the targeted setting.
- QMB 1001 Mathematics of Business (O)** **3 credits**  
This course seeks to develop those mathematical concepts required for success in a variety of business careers, including payroll calculations, markups and markdowns, discounts, commissions, and profit calculations.
- SLS 1267 Team Building and Problem Solving (O)** **3 credits**  
This course bridges the gap between theoretical and practical education. Students work as teams to solve problems involved in developing curriculum. This provides a mixture of abstract and experiential learning opportunities with concrete applications and practical problem solving.
- SLS 1261 Essentials of Contemporary Leadership** **3 credits**  
This course refines leadership skills and attitudes. The focus is on personality traits, behavioral change, and goal-setting techniques. Topics include motivation, communications, empathy, trust, team building, and human relations.
- MKA 1930 - 1933 Special Topics/Seminar (O)** **1 - 4 credits**  
This course enables participants to develop and refine skills necessary to be an effective leader in an identified employment setting.

**SLS 1262 Leadership and Team Building (O)** 1 credit  
This course develops and refines leadership skills and attitudes. The focus is on behavioral change and goal setting techniques. Topics include communication, team building, and human relations.

**SBM 1000 Entrepreneurship (O)** 3 credits  
This course focuses on research and development of the various elements of a business plan, including financing, marketing, and bookkeeping.

## CHEMISTRY

**CHM 1020 Introduction to Chemistry (P)** 3 credits  
This course teaches introductory chemical principles and applications for the non-science major. Topics include the scientific method of problem solving, classification of matter, the periodic table, chemical reactions, energy, chemical bonds, and acid-base chemistry. Student must score into college-level English, mathematics and reading on placement test.

**CHS 1510 Introduction to Forensic Science** 3 credits  
This course teaches the applications of forensic science and is designed for students who do not plan to major in the natural sciences. Through the use of case studies, the topics of trace evidence, toxicology, and pharmacology are explored. Student must score into college-level mathematics and reading on placement test.

**CHM 1083 Consumer Chemistry (P)** 3 credits  
This course teaches basic chemical concepts and principles in both consumer products and the environment. Prerequisite: Student must score into college-level reading on placement test.

**CHM 1045 General Chemistry I (P)** 3 credits  
This course is a study of the principles of chemistry, atomic and molecular structure, chemical bonding, properties of gases, stoichiometry, liquids, and solids. Prerequisite: MAT 1033, and student must score into college-level reading on placement test. Corequisite: CHM 1045L.

**CHM 1045L General Chemistry I Lab (P)** 1 credit  
This course is the laboratory for CHM 1045. Lab experiments include the topics of principles of chemistry, atomic and molecular structure, chemical bonding, properties of gases, stoichiometry, liquids, and solids. Prerequisite: Student must score into college-level mathematics and reading on placement test. Pre/Corequisite: CHM 1045. Lab fee \$30.00.

**CHM 1046 General Chemistry II (P)** 3 credits  
This course is a continuation of CHM 1045 including equilibrium, kinetics, electrochemistry, and descriptive chemistry of some elements. Prerequisite: CHM 1045, CHM 1045L. Corequisite: CHM 1046L.

**CHM 1046L General Chemistry II Lab (P)** 1 credit  
This course is the laboratory for CHM 1046. Lab experiments include the topics of equilibrium, kinetics, electrochemistry, and descriptive chemistry of some elements. Prerequisite: CHM 1045, CHM 1045L. Corequisite: CHM 1046. Lab fee \$30.00.

**CHM 2210 Organic Chemistry I (P)** 3 credits  
This course teaches the nomenclature, preparation, reactions, mechanisms, and the electronic and structural features of carbon-containing compounds. The relationships between molecular shape, chemical reactivity, and product formation are covered. Classes of compounds studied include alkanes, alkenes, alkynes, alkyl halides, alcohols and ethers. Prerequisite: CHM 1046, CHM 1046L. Corequisite: CHM 2210L.

**CHM 2210L Organic Chemistry I Lab (P)** 1 credit  
This course teaches the preparation of organic compounds. Students perform distillation, extraction, recrystallization and chromatography experiments. Alcohols, alkenes, esters and alkyl halides are prepared. Prerequisite: CHM 1046 and CHM 1046L. Corequisite: CHM 2210. Lab fee \$30.00.

**CHM 2211 Organic Chemistry II (P) 3 credits**

This course teaches the nomenclature, preparations, reactions, mechanisms, and the electronic and structural features of carbon-containing compounds. Classes of compounds studied include aromatics, aldehydes, ketones, carboxylic acids, amines and phenols. Chemical structure is determined using infrared spectra and nuclear magnetic resonance spectra. Prerequisite: CHM 2210, CHM 2210L.

**CHM 2211L Organic Chemistry II Lab (P) 1 credit**

This course teaches the preparation, purification, and identification of organic compounds. Gas chromatography and infrared, spectra are obtained and used to determine chemical purity and structure. Esters, amides, carboxylic acids, aldehydes and aromatic compounds are prepared. Prerequisite: CHM 2210, CHM 2210L. Corequisite: CHM 2211. Lab fee \$30.00.

**CHM 1032 Biochemistry for Health Professionals (P) 1 credit**

This course covers the essentials of chemistry and biochemistry for students in health-related fields. Emphasis is placed on chemical and biochemical applications to the health-related fields, and on understanding the structure and function of lipids, carbohydrates, and proteins. Prerequisite: Student must score into college-level English, mathematics and reading on placement test.

**CHILD DEVELOPMENT AND EDUCATION****CHD 1220 Introduction to Child Development 3 credits**

This course is a study of approaches to understanding and guiding the young child. Principles of growth and development are applied to the child in various settings. Emphasis of instruction is for potential employees in a child care situation.

**CHD 1104 Introduction to Early Childhood Education 2 credits**

This course covers the history, types, and guidelines for preschool education programs. Job opportunities are discussed.

**CHD 1332 Creative Experiences for Children 3 credits**

This course is an in-depth study of the creative activities enjoyed by preschool children in language arts, math, science, social studies, art, and music. P.E. techniques the teacher can use to stimulate creativity are identified.

**CHD 2800 Administering a Child Care Center 3 credits**

This course teaches the development and administration of a Child Care Center at the foundational level. Included are the principles and practices of assessing community need, licensing and certifying, budgeting, developing and equipping a center facility, staffing, managing on site and evaluating program and staff.

**CHD 2334 Early Childhood Language Arts and Reading (O) 3 credits**

This course studies language development, reading readiness, and primary reading skills for young children. Emphasis is on planning language arts and reading activities.

**EDF 1021 Social Elements in Early Childhood Education 3 credits**

This course studies the sociocultural elements of society and how these influence the child, the family, and the educational program. Emphasis is on 0-to-8 year-old children.

**EEC 1202 Principles of Early Childhood Curriculum 3 credits**

This course presents the techniques used to develop effective teaching-learning situations with preschool children. The teacher's role in determining these learning experiences and implementing them in a classroom is identified.

**EEC 1520 Early Childhood Organizational Leadership and Mgmt. 3 credits**

This course provides advanced level director credential training including organizational structure, ethics and professionalism, leadership, personnel policies and relationships, and staff development, evaluation and retention.

- EEC 1601 Observing and Recording Behavior** 3 credits  
This course teaches observing and recording as it relates to the early childhood classroom.
- EEC 1946 Early Childhood Practicum I** 4 credits  
This course provides an opportunity for supervised participation in the Child Development Center. The students plan and carry out specific activities providing experiences in working with preschool children individually and in groups.
- EEC 1947 Early Childhood Practicum II (0)** 4 credits  
This course is the second in a series of four courses. Prerequisite: EEC 1946.
- EEC 2948 Early Childhood Practicum III (0)** 4 credits  
This course is the third in a series of four courses. Prerequisite: EEC 1947.
- EEC 2949 Early Childhood Practicum IV (0)** 4 credits  
This course is the last in a series of four courses. Prerequisite: EEC 2948.
- EEX 1013 Special Needs in Early Childhood Education** 3 credits  
This course teaches a survey of special-needs children during the early years, their families, and the agencies and systems available to provide assistance.
- EEX 2010 Introduction to Special Education (P)** 3 credits  
This course teaches the major areas of exceptional students' education. Emphasis is on etiology, terminology, classification, prevalence, educational approaches, legal and medical implications, and personal and social growth adjustments of student labeled exceptional. Prerequisite: Student must score into college-level English on placement test.
- HEV V181 Behavioral Observation and Screening in Child Care (0)** 6 hours  
This course teaches the appropriate techniques necessary for observing the developmental behavior of children, specifically through the use of a checklist, or similar tools to match observed behaviors with the corresponding developmental age level.
- CHD V533 Parenting (0)** 45 hours  
This course prepares students for the occupation of parenting, realizing the dual roles of males and females as homemakers and wage earners, emphasizing the acquisition of knowledge and development of understanding the attitudes, standards, values, and skills relevant to individual and family life. Topics covered include human growth and development, interpersonal relationships, planning for parenthood, resource management, providing for health, safety, and security, importance of families and crisis management.
- HEV V110 Early Childhood Education I (0)** 150 hours  
This course provides information concerning state rules and regulations; clean, safe and healthy learning environments; food service and nutrition education; child abuse and neglect; principles of child development; observation and recording; and developmentally appropriate practices.
- HEV V115 30 - Hour Statewide Childcare Training (0)** 30 hours  
This course presents the state rules and regulations governing childcare; health, safety, and nutrition; identifying and reporting child abuse; and principles of child growth and development. It presents the skills required to implement a developmentally appropriate, anti-bias program for children ages birth to age five.
- HEV V118 Family Day Care Worker Training (0)** 3 - 30 hours  
This course teaches rules and regulations of operating a licensed home day care, including nutrition and health issues, safety procedures, identification and reporting of child abuse and neglect, principles of child growth and development, and management of a family day care home.
- HEV V116 Introduction to Preschool Practices (0)** 10 hours  
This course presents skills necessary to implement a developmentally-appropriate, antibiased program for children ages birth to five.

**HEV V132 Child Growth and Development (0) 6 hours**

This course teaches the principle of child development; the influences of nutrition, environment, heredity and health status on child development; the developmental characteristics of children ages birth to 12; observation and documentation of child development; and effective communication with children.

**HEV V130 Early Childhood Education II (0) 150 hours**

This course is an introduction to the career of preschool teaching. Students acquire competencies in activities for the development of infants, toddlers, preschoolers, school age children to age eight, and special needs children.

**HEV V137 Early Childhood Education III (0) 150 hours**

This course is an overview of the management skills of becoming a preschool teacher. Topics include child development theories, current trends and issues, legislation, heredity, classroom management, developmentally appropriate curriculum and environments, multiculturalism, and teacher resource files.

**HEV V158 Early Childhood Education IV (0) 150 hours**

This course teaches the skills necessary for employment in the child care industry. Topics include mentoring, workshop development, team building, advocacy, brain research, and professional development.

**HEV V159 Train the Trainer - Child Care (0) 10 hours**

This course provides an overview of the 20-hour child care worker's training program.

**HEV V166 Health, Safety and Nutrition (0) 8 hours**

This course teaches the characteristics of a safe and healthy environment and age appropriate proper nutrition for children.

**HEV V199 Identifying and Reporting Child Abuse and Neglect (0) 40 hours**

This course teaches the procedures for identifying child abuse and neglect and the process for reporting the abuse and or neglect.

**HEV V171 Developmentally Appropriate Practices - Infants & Toddlers (0) 10 hours**

This course provides knowledge and skills necessary for implementation of a supportive, developmentally-appropriate, family-focused, group care environment for children from age birth to age three. Prerequisite: HEV V115.

**HEV V126 Special Needs (0) 10 hours**

This course teaches concepts necessary for an understanding of children with special needs and how to include them in a variety of settings.

**HEV V195 School Age Children (0) 10 hours**

This course teaches knowledge and skills necessary for assisting in the implementation of a developmentally appropriate, multicultural program for children ages five through twelve.

**HEV V805 Rules and Regulations (0) 6 hours**

This course teaches the rules, regulations and laws governing child care centers' state and local licensing.

**HEV V806 Family Child Care Rules and Regulations (0) 6 hours**

This course teaches the rules, regulations and best practices governing a Family Child Care Home.

**CHINESE****CHI 1120 Elementary Chinese I (P)\* 4 credits**

This course teaches true beginners basic Chinese language skills including listening, speaking, reading and writing. Mastery of 350 Chinese characters, basic spoken and literary syntax, pronunciation are key objectives along with an understanding of the cultural context of the Chinese language. Prerequisite: student must score into college-level English on placement test.

\*This course can be used toward the foreign language requirements for university admission.



**CHI 1121 Elementary Chinese II (P)\* 4 credits**

This course teaches elementary Chinese language skills including listening, speaking, reading and writing. Mastery of an additional 350 Chinese characters along with a continuing emphasis on basic spoken and literary syntax are key objectives along with further understanding of the cultural context of the Chinese language. Prerequisite: CHI 1120.

**CHI 2220 Intermediate Chinese I (P)\* 4 credits**

This course teaches literary Chinese for students with a background in Elementary Chinese. Literary Chinese is the foundation for most forms of Chinese literature including fiction and non-fiction writings. It is also the written language used by all Chinese classical literature. Students study literary syntax as displayed in about 20 representative texts. Classes include discussions of the subject matter using intermediate spoken language skills. Prerequisite: CHI 1121.

**CHI 2221 Intermediate Chinese II (P)\* 4 credits**

The course teaches intermediate Chinese using readings from modern Chinese non-fictional literature. Readings include selections from social science and political literature along with current Chinese newspaper and journal articles. Students learn to use basic Chinese reference literature such as Chinese-English and Chinese-Chinese dictionaries. Classes include discussions of the subject matter using intermediate spoken language skills. This course is the foundation for advanced work and readings using the Chinese language. Prerequisite: CHI 2220.

**COLLEGE ORIENTATION****SLS 1101 Student Success (P) 3 credits**

The course provides extensive instruction in study skills and strategies, helps students develop a positive attitude toward learning, and offers an orientation to the College.

**SLS 1501 College Study Skills (P) 1 credit**

This course teaches how to improve study skills that are necessary for academic success at the college-level.

**SLS 1932 Special Topic in Study Skills for Business Students (O) 3 credits**

This course teaches how to develop and enhance the skills and techniques that help ensure the student's success in a particular degree or certificate program.

**COLLEGE PREPARATORY - PLACEMENT TESTING REQUIRED**

See the following sections under descriptions in this catalog:

English: ENC 0080 Basic English Review, ENC 0001 Fundamentals of Writing

English as a Second Language: EAP 0320 ESL Prep Reading I, EAP 0420 ESL Prep Reading II, EAP 0384 ESL Grammar/Structure I, EAP 0484 ESL Grammar/Structure II

Mathematics: MAT 0012 PreAlgebra, MAT 0024 Introductory Algebra

Reading: REA 0001 College Prep Reading I, REA 0002 College Prep Reading II

In addition to class time, these courses require two (2) hours per week in the Academic Support Center.

**COMMERCIAL DRIVER TRAINING****TRA V081 Commercial Vehicle Driving (O) 160 hours**

This course teaches the broad transferable skills for the commercial vehicle driving industry. The course content includes loading and unloading cargo; reporting delays or accidents on the road; verifying load against shipping papers; and keeping records. Instruction in human relations, leadership, communication, and employability skills, and safe, efficient work practices is also included. Lab fee \$4,060.00.

\* This course can be used toward the foreign language requirements for university admission.

**TRA V083 On-the-Job Training Commercial Vehicle Driving (O) 160 hours**

This course teaches the broad transferable skills for the commercial vehicle driving industry. The instruction includes 1,000 miles of road driving under the supervision of a qualified commercial vehicle driver prior to completion of the program. Road driving activities include experience on two-lane, four-lane, interstate, and city streets and highways. Twenty percent or more of the experience occurs at night on both wet and dry roads. Instruction in driving bob-tail, empty and loaded vehicles are given. Prerequisite: TRA V081.

**COMPUTER SCIENCE****CTS 2304 Windows Network Infrastructure (P) 3 credits**

This course teaches how to plan, configure, manage, secure, and troubleshoot a network infrastructure around features supported by the Microsoft Windows network operating system. Recommended prerequisite: CTS 1334.

**CEN 2940 Computer Science Internship (O) 3 credits**

This course teaches how the skills and competencies obtained in the classroom apply in a professional setting. The course includes supervised work experience, instructional seminars, and project-based instruction. Prerequisite: permission of instructor.

**CET 1854 Introduction to Wireless Technology (O) 3 credits**

This course teaches key wireless networking topics, including wireless technology and architecture, network design, types of wireless networks, and applications. Special focus is on technical matters, wireless communication products, wireless networking products, and wireless LANs products. It is recommended that all students have at least a basic knowledge of networking, including Protocol, the OSI module, and TCP/IP.

**CGS 1000 Introduction to Computer Usage (O) 3 credits**

This course develops introductory-level skills on operating a microcomputer. The course includes hands-on instruction with beginning software. Students are introduced to the basics of Windows, a word processor, a database operation, and an electronic spreadsheet. Lab fee \$20.00.

**CGS 1002 Fundamentals of Computer Usage (O) ½ credit**

This course introduces the basics of common applications of the computer, including word processing, data base, and spreadsheet software. Special emphasis is given to beginning commands and concepts necessary for these programs.

**CGS 1003 Fundamentals of Computer Application (O) ½ credit**

This course is an overview of fundamentals of computer usage. Students receive hands-on experiences in a variety of computer concepts. The course is modified to the specific needs of the participants.

**CGS 1013 Computer Technology for Educators (O) 2 - 4 credits**

This course covers the use of computer applications in education. Topics may include authoring software, presentation software, and the use of computer peripherals such as CD-ROMs and laser disks.

**CGS 1510 Electronic Spreadsheet (O) 1 credit**

This course introduces the student to the fundamental commands in an electronic spreadsheet program and to some common uses of such a program.

**CGS 1053 Electronic Access to Educational Resources 1 credit**

This course teaches skills and provides hands-on application in accessing educational information resources, including books, journals, newspapers, and other research material using online catalogs, databases, and the Internet. Educational testing sources, statistical sources, and specialized databases will be highlighted. Analysis of Internet sites, effective search strategies, information literacy, critical thinking skills, and citing electronic resources are also addressed.

- CGS 1060 College Computing (P)** **3 credits**  
This course concentrates on how to use a computer for academic purposes. Topics covered include an operating system (Microsoft Windows), a word processor (Microsoft Word), an electronic spreadsheet (Microsoft Excel), presentation software (Microsoft PowerPoint), and search techniques using a database application (Microsoft Access). Computer concepts and use of the Internet are also covered. Lab fee \$20.00.
- CGS 1061 Orientation to the Computer (O)** **1 credit**  
This course teaches concepts fundamental to the use of microcomputers. It introduces a desktop computer operating system and a word processing application. This is an entry-level course requiring no previous computer knowledge.
- CGS 1064 Introduction to Internet (O)** **3 credits**  
This course teaches beginning techniques on how to use Internet tools, resources, and basic hardware and software components in order to enhance job skills, job goals, and job efficiency. Topics may include: the basic structure of the Internet, basic hardware/software and service provider components, basic Internet resources to achieve specific goals, utilizing popular browser(s), and beginning techniques for integrating Internet resource materials into the workplace.
- CGS 1100 Introduction to Computer Applications for Business (P)** **3 credits**  
This course introduces students to microcomputer applications for business. Major topics include Windows operating systems, word processing, financial spreadsheets, database applications, e-mail, local area networks, and the Internet. Lab fee \$20.00.
- CGS 1107 Electronic Access to Business Resources (O)** **1 credit**  
This course teaches skills and provides hand-on application in accessing business information. Students learn to develop effective search strategies using online databases and the Internet. Sources include but are not limited to: Business Source Premier, Wilson Omni File, Census Bureau, Edgar Database, U.S. Department of Labor, and the Thomas Register.
- CGS 1110 Computer Literacy I (O)** **3 credits**  
This course teaches the fundamentals of operating computer equipment. Included are the basics of word processing, data base management, and electronic spreadsheets. Instruction includes lecture, demonstration, and personalized instruction.
- CGS 1130 Electronic Access to Legal Resources (O)** **1 credit**  
This course emphasizes electronic access to legal information. Students develop effective search strategies using online databases and the Internet. Sources include but are not limited to: Florida Statutes, Online Sunshine, Westlaw, U.S. Code, Thomas Federal Legislation, Copyright, and the Federal Register.
- CGS 1160 Basic Computer Applications (O)** **3 credits**  
This course teaches skills for the use of microcomputers including hands-on instruction with popular software. Students learn basic PC operations and file management, the use of popular applications including word processing, spreadsheet and database programs. This is an entry-level course requiring no previous computer knowledge.
- CGS 1822 Web Page Design with Expression Web (O)** **3 credits**  
This course teaches Web page design using Microsoft Expression Web, including creating tables, forms, and frames.
- CTS 1650 CCNA1: Networking Basics (O)** **3 credits**  
The purpose of this course is to prepare a student to learn and apply the basics of computer networking using common network devices. The course covers the OSI model and industry standards, network topologies, IP addressing including subnet masks, and basic network design. This is the first of a series of courses designed to prepare students for industry certification exams leading to the Cisco Certified Networking Associate or the Microsoft Certified Professional Systems Engineer.

- COP 2360 C# Programming (0)** **3 credits**  
This course teaches how to program using the Microsoft C# programming language. Students learn how to work with a set of classes known as the Common Language Runtime (CLR) and they also gain an in-depth understanding of the Microsoft .NET framework, its architecture, main components and supported technologies. Recommended prerequisite: COP 2001.
- COP 2841 Advanced Web Programming CGI/Perl (0)** **3 credits**  
This course teaches how to use Common Gateway Interface (CGI) scripting language. This course offers a comprehensive explanation of using CGS to serve dynamic content along with the current techniques available with the CGI.pm module and the latest versions of PERL. The course begins with how CGI works, then shows the student how to develop the subtle details of a CGI program. Recommended prerequisite: CTS 2106 and COP 1830.
- CTS 1225 Advanced Excel (0)** **3 credits**  
This course teaches advanced skills and design concepts necessary for employing Microsoft Excel to provide solutions to complex business problems. This course covers advanced topics in spreadsheet and workbook design, complex formulas, functions, list and data management, and macros and Visual Basic for Applications. The course includes hands-on experiences with exercises and projects to provide students with a thorough working knowledge of Microsoft Excel. Prerequisite: CTS 1205.
- CTS 1330 Implementing and Supporting MS-Exchange (0)** **3 credits**  
This course teaches installation, configuration, and administration of Microsoft Windows Exchange server. This course also addresses the issues related to integration of the Exchange e-mail server with Microsoft Windows Server operating system. Recommended prerequisite: CTS 1334.
- CTS 1334 Windows Server (0)** **3 credits**  
This course teaches Microsoft Windows Server. Topics include installation, configuration, and administration of the Microsoft Windows Server operating system in a networked environment. Recommended prerequisite: CTS 1104.
- CTS 2303 Planning, Implementing and Maintaining  
a Windows Server Active Directory Infrastructure (0)** **3 credits**  
This course teaches Microsoft's Active Directory, the foundation of an enterprise-level Windows network, and Windows Server including a number of improvements and enhancements to its directory services that make a network administrator's job easier. This course also teaches the basics of how directory services work and the role they play in the network, and specifically how the directory services concept is implemented in Microsoft's Active Directory. The goal is to prepare the learner for the Microsoft Certified Systems Engineer (MCSE) exam.
- CTS 2306 Planning, Implementing and Maintaining  
a Windows Server Network (0)** **3 credits**  
This course teaches the knowledge and skills necessary to install, configure, administer, and support the primary networking services in the Microsoft Windows Server operating system. In addition, it covers the information required to pass the Microsoft Certification Exam: Planning and Maintaining a Microsoft Windows Server Network Infrastructure as part of becoming a Microsoft Certified Professional (MCP) or a Microsoft Certified Systems Engineer (MCSE).
- CTS 2220 Advanced Microsoft Word (0)** **1 credit**  
This course develops intermediate-level skills for word processing using Microsoft Word. Topics include integrating text and graphics, merging a data source and main document, and maintaining files. Prerequisite: Experience with Microsoft Word.
- CTS 2245 Visual Basic for Applications (0)** **3 credits**  
This course uses the programming language Visual Basic for Applications (VBA) to customize applications in the Microsoft Office suite of products. Prerequisite: COP 1332.

- CTS 2310 Network Security (O)** **3 credits**  
This course teaches how to design security for computer networks. Students learn how to analyze current networking environments and design a security solution, a Public Key Infrastructure (PKI), and Windows network services security. Recommended prerequisite: CET 1178 and CTS 1104.
- CTS 2437 Administering MS SQL Server (P)** **3 credits**  
This course teaches how to install, configure, administer, and troubleshoot the client-server database management system of Microsoft SQL Server. Recommended prerequisite: CTS 1334.
- LIS 1002 Introduction to Electronic Access to Information (P)** **1 credit**  
This course teaches research skills and provides instruction in accessing information resources, including books, journals, newspapers, governmental documents and other research materials using online catalogs, databases, and the Internet. Analysis of Internet sites, effective search strategies, information literacy, critical thinking skills, and citing electronic resources are also addressed.
- LIS 2004 Introduction to Internet Research (P)** **1 credit**  
This course teaches the methods of accessing information through the Internet and is delivered through the World Wide Web and Internet e-mail. Students learn Internet history, communication, research strategies, Web search tools, search engines, evaluating resources, downloading files, and documenting Internet and other online resources. Recommended prerequisite: LIS 1002 or CGS 1555.
- LIS 2005 Advanced Electronic Access to Information** **3 credits**  
This course teaches advanced skills and strategies, and provides instruction in accessing information resources, including books, journals, newspapers, government documents, deep Web, media and other research material using online catalogs, databases, and the Internet. Analysis of Internet sites, effective search strategies, information literacy, annotated bibliographies, critical thinking skills, and citing electronic resources using APA/MLA are also addressed. Lab fee \$20.00.
- COSMETOLOGY**
- CSP V100 Esthetics (O)** **260 hours**  
This course prepares the student to obtain employment as a Florida Licensed Esthetician. Lab fee \$220.00.
- COS V080 Introduction to Cosmetology (O)** **150 hours**  
This course provides instruction in safety related to cosmetology processes, procedures, and equipment, including decontamination and infection control. Students also study shampooing and scalp treatments and receive instruction in career opportunities in the cosmetology field. Lab fee \$100.00.
- COS V081 Hairstyling (O)** **150 hours**  
This course provides instruction in techniques of hairstyling and the care and use of wigs. Students study the proper set up, use and care of equipment used in hairstyling. Prerequisite: COS V080.
- COS V082 Facials, Manicuring and Pedicuring (O)** **150 hours**  
This course provides competencies in performing facials, manicures and pedicures. Students study the products, procedures, and sanitation required as well as receive hands-on experience in performing facials, manicures and pedicures. Prerequisite: COS V080. Lab fee \$50.00.
- COS V083 Haircutting (O)** **150 hours**  
This course provides instruction in hair shaping, in the selection of proper haircutting implements, and proper style selection. Prerequisite: COS V080.

- CJC 2302 Correctional Institution Administration and Organization (O) 3 credits**  
This course provides an analysis of the problems encountered by the corrections system relating to principles of management, supervision, and administration. The supervisor's role in rehabilitation and custody of inmates is examined in depth.
- CJE 2642 Crime Scene Procedures (O) 3 credits**  
This course examines the procedures employed to conduct a systematic evaluation of a crime scene beginning with the preliminary stage at the crime scene and continuing through the complete follow-up phases. Students explore the role of the officer or investigator and their responsibility for the collection and documentation of evidence to provide a composite of the occurrence.
- CJE 2641 Crime Scene Technician Academy (O)\* 5 credits**  
This course examines the various techniques used in crime scene investigation. Emphasis is placed upon recording the crime scene, collecting and preserving the physical evidence, and the applications of photography and video taping of crime scenes. Employment of the techniques available to the crime scene investigator is demonstrated.
- CCJ 2673 Crimes Against the Elderly & Disabled (O)\* 3 credits**  
This course increases the law enforcement officers' understanding of the laws as they have been written to protect Florida's elderly and disabled adult populations. Students examine the elder issues that currently exist within our communities with emphasis on specific crimes that primarily target the elderly and disabled adult populations.
- CJE 2600 Criminal Investigation (P) 3 credits**  
This course teaches the fundamentals of criminal investigation to include the role of the investigator in combating crime. Students examine the process which continues to evolve due to scientific, legal, and social developments, as well as changes in the behavior of criminals.
- CJL 2100 Criminal Law (P) 3 credits**  
This course teaches the principles involved in criminal law and the key elements of major crimes. Students examine the tools necessary to apply the general principles to the varied and changing definitions of specific crimes.
- CJL 2403 Criminal Procedure (P) 3 credits**  
This course teaches the basic procedural aspects of the criminal justice system within the context of a state's procedural laws. Students examine basic topics relevant to law enforcement, from court systems to constitutional rights.
- CJD 1255 Defensive Tactics Instructor Training (O)\* 5 credits**  
This course prepares the participant to teach the basic controlling techniques and self defense course in the Basic Recruit Academies. Topics include the legal issues in defensive tactics, motor skills development, instructor techniques and methods for managing stress while performing defensive tactics procedures.
- CJE 2581 Detective Academy (O)\* 5 credits**  
This course trains the new criminal investigator and enhances the knowledge of the veteran investigator in various skills, such as: crime scene analysis, interviews and interrogations, death and injury investigations, developing informants, white-collar crime, cults, case preparation, search and seizure, legal aspects, case management, and criminal profiling.
- CJE 1330 Ethics for the Justice System (O)\* 3 credits**  
This course examines various modes of critical thinking and ethical inquiry as they relate to individuals employed in the justice system. Ethical and moral theories are discussed in this regard and the dynamics of intellectual inquiry are also explored. Of particular concern is the moral nature and purpose of the justice system as well as the scope and limits of investigative knowledge.

\*Prerequisite: Florida State Certified Law Enforcement, Corrections and Probation Officers only or permission of Criminal Justice Department.

- CCJ 1685 Domestic Intervention (O)** **3 credits**  
This course teaches officers to properly identify various forms of domestic violence commonly encountered by law enforcement. Students learn effective intervention and diffusion techniques and methods for investigating probable cause, as well as correctly identifying the victim(s), perpetrators(s) and witnesses. The course covers legal issues in domestic violence and the importance of proper documentation for courtroom testimony. Prerequisite: Florida certified police, corrections or probation officer.
- CCJ 1600 Deviant Behavior (P)** **3 credits**  
This course teaches the basic sociological perspectives and theories of deviance. Emphasis is placed on understanding basic behavior patterns that are not a part of traditional and conventional society.
- CJC 1350 Discipline and Special Confinement Techniques (O)** **3 credits**  
This course introduces the essentials of discipline and special confinement techniques necessary for the corrections profession. The topics include physical operation, physical force, recognizing abnormal behavior, and verbal and nonverbal communication.
- CJE 1536 Driver Instructor Training (O)\*** **3 credits**  
This course enhances the knowledge, skills, and abilities of an individual to provide efficient and effective basic recruit training to criminal justice personnel.
- DSC 1212 Emergency Preparedness for Correctional Officers (O)\*** **3 credits**  
This course introduces correctional officers to the concepts and key components of emergency situations, effective leadership to prevent such occurrences, and internal factors both inside and outside correctional settings that affect emergency situations. Prerequisite: Must be a certified correctional officer.
- CJC 1002 Field Training Officer for Correctional Officers (O)** **3 credits**  
This course teaches all aspects of field training and evaluation modeled after the San Jose, California, Police Department program. The student will be instructed in the basic goals of a field training program and exposed to common problems which often occur. Prerequisite: permission of Department Chair.
- CJE 1535 Field Training Officer Techniques (O)\*** **3 credits**  
This course introduces the criminal justice student (law enforcement and corrections) to the basic goals of field training and evaluation programs within a law enforcement agency. Basic structure and elements of the program are examined, including the benefits of field training and factors which contribute to the success of the program.
- CJE 2567 First Responder for Instructors (O)\*** **3 credits**  
This course teaches specific skills to those officers who instruct recruit level trainees and in-service officers in the skills of performing medical treatment as a first responder to medical emergencies. Student must have completed first responder training. Lab fee \$10.00.
- CJE 1325 Foundation of Law Enforcement Leadership I (P)** **3 credits**  
This course teaches leadership skills that are the foundation of the law enforcement community. Exposure to the para-military organization with a focus on the history of law enforcement, the duty to society, and the honor, duty and integrity of the law enforcement officer are highlights the student experiences. Prerequisite: permission of Department Chair.
- CJL 1000 Fundamentals of Law (P)** **3 credits**  
This course provides a basic introduction to law and the legal system designed to provide a broad understanding of Civil, Criminal, and Constitution Laws and their application to factual situations. The students are exposed to an overview of how the judicial system works, the principle of precedent, statutory interpretation, and appellate procedure.

\*Prerequisite: Florida State Certified Law Enforcement, Corrections and Probation Officers only or permission of Criminal Justice Department.

- CCJ 2197 Hostage Negotiation (O)\* 3 credits**  
This course provides hostage negotiators with the skills needed to successfully bring to resolution a hostage or barricaded subject situation.
- CJE 2635 Injury and Death Investigations (O)\* 3 credits**  
This course teaches the Criminal Justice student the tasks and responsibilities inherent to an investigation which involved injury and death. The specific role of the investigator is examined.
- CJB 1801 Instructor Techniques (O) 5 credits**  
This course enhances the criminal justice officer's knowledge, skills, and abilities to provide efficient and effective training to fellow criminal justice personnel in skill or subject area dictated by local or state need.
- CJD 1940 Internship in Criminal Justice (P) 3 - 4 credits**  
This course provides on-the-job experience wherein students are given the opportunity to strengthen and further develop expertise in a practical setting within the Criminal Justice field. The student and instructor develop a training plan, with the instructor evaluating the student's performance by communication with the student's supervisor.
- CJC 2000 Introduction to Corrections (P) 3 credits**  
This course teaches an overview of the historical events and social issues that have shaped the corrections (person/jail) system in the U.S., to include an examination of contemporary corrections in terms of structure, clients, management, staff programs, and prisoners' rights.
- CJL 2500 Introduction to the Courts (P) 3 credits**  
This course introduces the student to the organization of the federal and state courts, discussing the structure of court system and how they are administered.
- CJE 2580 Investigative Interviews (P) 3 credits**  
This course teaches the knowledge, skills and attitudes that are essential for an interviewer to conduct effective interviews.
- CCJ 2020 Introduction to Criminal Justice (P) 3 credits**  
This course teaches the historical and philosophical background of criminal justice and agencies involved in the administration of criminal justice. Development and objectives of criminal systems together with organization, administration, and technical problems of local, state, and federal agencies are emphasized. The student is oriented to the purposes, requirements, and opportunities of the criminal justice career field.
- CJE 2640 Introduction to Criminalistics (P) 3 credits**  
This course teaches facets of criminal investigation that pertain directly to forensic analysis. Basic scientific principles and techniques are reviewed to demonstrate the workings and limitations of a crime laboratory, as well as the value of physical evidence.
- CJE 1000 Introduction to Law Enforcement (P) 3 credits**  
This course teaches an overview of the history, development, administration, operation and functions of law enforcement. Students examine innovative practices that have been developed as well as accountability issues that have surfaced in recent years.
- CCJ 2602 Investigations of Cults and Deviant Groups (O) 3 credits**  
This course acquaints the student with the complexities of investigating crimes involving cults and other deviant groups. Topics covered include signs of a cult-related crime, crimes involving cults and deviant groups, and ritual sexual abuse.
- CJJ 2002 The Juvenile and the Law (P) 3 credits**  
The course examines the juvenile justice system. It explores how juvenile offenders are defined and classified to include the various stages of juvenile processing.

\*Prerequisite: Florida State Certified Law Enforcement, Corrections and Probation Officers only or permission of Criminal Justice Department.



- CJD 1657 Investigations of an Officer-Involved Shooting (O)\* 3 credits**  
This course prepares for the response, coordination, investigation, and supervision of an officer-involved shooting where an individual dies or is wounded. The students analyze the information provided by the case, describe investigative leads, and prepare information for agency chief, state attorney, media, and the judicial system regarding the investigation and supervision of an officer-involved shooting.
- CJE 1016 Law Enforcement Leadership in Today's Culture (O)\* 3 credits**  
This course teaches the law enforcement professionals to examine the potential impact a career has on their personal and professional life and to develop strategies for overall emotional survival. The course outlines the issues that can potentially lead an officer to engage in inappropriate behavior. The course examines the consequences of inappropriate decisions which lead to administrative discipline and/or criminal charges. Prerequisite: permission of Department Chair.
- CJE 1160 Law Enforcement Leadership in Ethics and Diversity (O) 3 credits**  
The course teaches both real and hypothetical cases that challenge law enforcement leadership. Participants examine the cases, identify relevant moral theories and principles, and determine the best disposition of the case. It also helps participants develop an individual awareness of factors which influence perceptions and examine how perceptions influence behavior when interacting with people who are different. Prerequisite: permission of Department Chair.
- CJE 1304 Line Supervision (O)\* 5 credits**  
This course introduces law enforcement and correctional officers to the concepts and key components for effective and successful supervision in the jobs they perform to enhance both productivity and morale.
- CJB 1241 Managing and Communicating with Inmates (O)\* 3 credits**  
This course identifies contemporary issues faced by correctional facilities to include officer safety, overcrowding, policy and budgetary issues, offenders who have mental illness and/or substance abuse.
- CJE 2306 Middle Management (O)\* 3 credits**  
This course prepares the law enforcement or correctional officer for a management or supervisory position within a criminal justice agency. A variety of techniques and skills are used to develop practical management skills for today's contemporary agency. Prerequisite: CJE 1304.
- CJE 2570 Narcotics Identification and Investigation (O)\* 3 credits**  
This course teaches an overview of narcotics and the role of the investigative agencies. Drug traffic flow patterns are presented with particular emphasis on receiver, transhipper and manufacturer.
- CJE 1702 Officer Stress Awareness and Resolution (O)\* 3 credits**  
This course enhances the officer's ability to deal with stressful situations that may be inherent to the criminal justice profession. A general awareness of the causes of stress, types of stress, and solutions to stress, if applied properly, should provide for more effective job performance.
- CJE 2802 Police Cyclist Training (O)\* 3 credits**  
This course teaches law enforcement officers how to perform patrol duties using a bicycle. Through a series of classroom lecture and outdoor exercises, students learn bike components and maintenance, riding strategies and techniques, human physiology, health and safety issues, agency policy and legal considerations, tactical maneuvers and community relations. Prerequisite: must be certified police, corrections or probation officer.

\*Prerequisite: Florida State Certified Law Enforcement, Corrections and Probation Officers only or permission of Criminal Justice Department.

- CJE 2300 Police Organization and Administration (P)** **3 credits**  
This course teaches an overview perspective of police administration. The course examines the fundamentals of administration and management while giving the student a framework for understanding the role of the police administrator in relation to the responsibility to deliver quality police services.
- CJC 2162 Probation and Parole (P)** **3 credits**  
This course teaches an overview of the history and philosophical foundations of probation and parole in the United States. It examines the organization and operations of probation and parole agencies as particular segments of the criminal justice system; probation as a part of the judicial process and parole as part of the prison/corrections system.
- CJL 2130 Rules of Evidence (P)** **3 credits**  
This course provides the student with a basic understanding of the rules of evidence and the reasoning of courts and legislative bodies in establishing rules regarding the admissibility of evidence.
- CJE 2636 Traffic Homicide Investigation (O)\*** **5 credits**  
This course teaches the principles of traffic homicide investigation providing specific insight into traffic reconstruction and hit and run investigation. Instruction includes specific traffic and arrest procedures as well as search and seizure laws for patrol officers and traffic investigators.
- CJE 1002 Police Procedures (P)** **3 credits**  
This course teaches key issues facing law enforcement in performing their policing duties. It emphasizes what the police responsibility is, the constitutional and statutory constraints under which police function and how the tasks to be performed can be accomplished responsibly and humanely within these constraints. Prerequisite: permission of Criminal Justice Department Chair.
- CJE 1730 Security Threat Groups and Street Gangs (O)\*** **1 - 3 credits**  
This course provides the criminal justice professional an opportunity to examine gang sub-cultures. Street and prison gangs, gang violence and lifestyle are explored to enhance the officer's ability to recognize and identify crimes related to gang activity.
- CJE 1406 Spanish for the Criminal Justice Profession (O)\*** **3 credits**  
This course provides all levels of criminal justice professionals with the skills and abilities to communicate using the Spanish language. This course equips the student with the basic skills necessary to communicate during routine job duties, during emergency, life threatening or potentially life threatening situations.
- CJE 1546 Standardized Field Sobriety Testing (O)\*** **3 credits**  
This course provides law enforcement officers with the techniques used in standardized field sobriety and drugged driving tests. Students examine the effects of alcohol and drug use as it relates to an individual's driving abilities. Practical skills training and testing are performed to detect and apprehend impaired drivers.
- CCJ 1648 Organized Crime (O)\*** **3 credits**  
This course provides the officer and investigator with a basic introduction to organized crime. Specific techniques of recognition, classification, and effective investigation are provided.
- CJE 2637 Traffic Accident Reconstruction (O)\*** **5 credits**  
This course provides the law enforcement officer with the knowledge and tools necessary to evaluate and reconstruct a vehicle accident scene involving serious or fatal injury. The student gains an understanding of how to collect various data and to analyze the information to reconstruct the accident scene.

\*Prerequisite: Florida State Certified Law Enforcement, Corrections and Probation Officers only or permission of Criminal Justice Department.

- CCJ 1645 Financial Fraud Investigations (O)\* 3 credits**  
This course provides criminal justice officers with the basic tools to investigate organizations or individuals that receive proceeds as the result of fraud related activities to include multi-jurisdictional or multi-victim financial fraud.
- CJE 2634 Sex Crimes Investigation (O)\* 3 credits**  
This course provides an overview of sex crimes investigation for the patrol officer and investigator with limited experience in this field including an understanding of the problematic, legal, investigative, and evidentiary aspects of sex crimes.
- CJK V551 Telecommunications Officer I (O) 168 hours**  
This course teaches the basic foundation of public safety telecommunications operations. The students demonstrate proficiency in providing communications between public safety personnel and organizations. The students become familiar with the equipment, skills and resources necessary for successful completion of the program.
- CJD V939 Law Enforcement Basic Recruit Review (O) 30 hours**  
This course reviews course content in the Law Enforcement Basic Recruit Training and assists the student to prepare for the State Certification Exam for Law Enforcement Officers. Prerequisite: Basic Law Enforcement Recruit Training.
- CJK V240 Law Enforcement Auxiliary Introduction (O) 27 hours**  
This course teaches an overview of the Law Enforcement Training program, criminal justice values and ethics, and the basic Criminal Justice system and components. Lab fee \$71.00.
- CJK V241 Law Enforcement Auxiliary Patrol and Traffic (O) 19 hours**  
This course teaches Law Enforcement Officer safety and survival skills and various patrolling techniques including directing traffic.
- CJK V242 Law Enforcement Auxiliary Investigations (O) 17 hours**  
This course teaches the Law Enforcement Officer how to respond to and process a crime scene, investigate crimes against persons and property, and understand court procedures.
- CJE V930 Law Enforcement Volunteer Academy (O) 59 hours**  
This course teaches the roles and responsibilities of law enforcement volunteer/auxiliary personnel within a criminal justice agency. The course focuses on broad, transferable skills and stresses an understanding and demonstration of the various elements of the public service industry. Prerequisite: Must be sponsored by a law enforcement agency.
- CJK V109 Review for Basic Corrections (O) 16 - 24 hours**  
This course reviews course content in the Corrections Basic Recruit Training in order to assist the student in successfully obtaining a passing score on the State Certification Exam for corrections officers. Prerequisite: Basic Corrections Recruit Training.
- CJT P230 Breath Test Operator Training (O)\* 16 hours**  
This course teaches the various aspects of breath testing. Topics include a review of applicable state statutes, case law, and the Florida Administration Code. Students examine the signs and symptoms of impairment, procedures for administering a breath test, written documentation and courtroom presentation. Practical skills development is an integral part of this course. Lab fee \$10.00.
- CJD P004 Combating Violent Street and Prison Gangs (O)\* 40 hours**  
This course teaches the identification, familiarization and investigation of both national and local violent street and prison gangs.
- CJD P318 Cultural Diversity for Instructors (O) 8 hours**  
This course teaches the instructor how to effectively relate to students of diverse cultures and ethnic groups.

\*Prerequisite: Florida State Certified Law Enforcement, Corrections and Probation Officers only or permission of Criminal Justice Department.

- CJD P992 Basic Internet Investigation (O) 24 hours**  
This course teaches how the Internet works and how to use the Internet in criminal investigations. The student learns through hands-on experience the complexity of Internet criminal investigations to include the essential elements needed to investigate crimes which are committed with the use of a computer and the Internet. This focuses on how to gather information on the criminals who are committing the crimes rather than what crimes are committed using the Internet.
- CJD P946 Defensive Tactics Review (O) 8 hours**  
This course teaches remedial instruction in the defensive tactic techniques used for an officer's personal safety. Skills and techniques used to subdue, search, and transport resisting individuals, as well as the use of restraining devices, impact weapons, and pressure points are covered. Lab fee \$50.00.
- CJD P945 Criminal Justice Weapons Review (O) 16 hours**  
This course teaches remedial instruction in the use of law enforcement and corrections officer firearms, including handguns. Additional practical hands-on experience is provided. Prerequisite: CJD V040C. Lab fee \$150.00.
- CJT P331 Electronic Immobilization Technology Training (O) 8 hours**  
This course teaches Criminal Justice personnel regarding non-lethal, electronic immobilization technology used during incidences of resistance and/or non-compliance. The students learn to apply this technology in various situations involving arrest, containment and control.
- CJD P631 Firearms Instructor Transition Course (O)\* 10 hours**  
This course teaches the Florida Department of Law Enforcement (FDLE) certified Firearms Instructor the new techniques associated with the firearms training within the Basic Recruit Academy utilizing the Curriculum Maintenance System (CMS). The course is designed to transition the current instructor over to the new CMS curriculum.
- CJD P504 General Instructor Refresher Training Course (O) 8 hours**  
This course teaches the instructional techniques necessary to refresh the instructor's knowledge, skills, and ability. It provides efficient and effective remedial training to law enforcement instructors whose Criminal Justice Standards and Training Commission Instructional Certificates have lapsed. Prerequisite: CJB 1801.
- CJD P636 Profiling (O)\* 16 hours**  
This course teaches the skills and techniques used to profile various offenders while conducting a criminal investigation.
- CJD P615 Radar Operators Training Course (O)\* 40 hours**  
This course provides the law enforcement officer with the fundamental concepts of radar. The student learns all radar operating procedures, courtroom testimony, and qualify as a law enforcement radar operator.
- CJD P203 Vehicle Operations Instructor Training Course (O)\* 16 hours**  
This course is designed to "transition" current Criminal Justice Standards and Training Commission (CJSTC) certified driving instructors into the new Curriculum Maintenance System (CMS) model. It is based on the premise that the primary objective of the law enforcement basic recruit driver training instructor is to alert students to their responsibilities for safe and efficient vehicle operation both in stressful conditions and during patrol activities.
- SCY V501 Security Officer Training (O) 40 hours**  
This course teaches the state minimum training requirement for applicants of the Class "D" Security Officer license. This basic level training presents an overview of the role and responsibilities of security officers. Lab fee \$5.00.

\*Prerequisite: Florida State Certified Law Enforcement, Corrections and Probation Officers only or permission of Criminal Justice Department.

- CJD P618 Laser Operator Transition Training (O) 12 hours**  
This course teaches special skills and techniques designed to improve the effectiveness of speed measurement using a Laser Speed Measuring Device (LSMD).
- CJD P206 Introduction to Process Serving (O) 16 hours**  
This course teaches the foundations of legal, professional and the ethical process of serving legal papers in the State of Florida.
- CJD P003 First Aid Instructor Transition Course (O) 8 hours**  
This course teaches first aid instructors current CMS curriculum and explains the instructional changes from the present, traditional course to the new, CMS format. Prerequisite: CMS General Instructor Transition, Certified CPR instructor with one of the following associations: American Heart Association-BLS Health Care Provider, American Red Cross-CPR for the Professional Rescuer, National Safety Council (NSC)-Advanced First Aid and CPR, American Safety and Health Institute-CPR for the Professional Rescuer.
- CJD P230 Parking Enforcement Specialist (O) 40 hours**  
This course teaches the knowledge and skills required to fulfill the responsibilities and duties of a Parking Enforcement Specialist. This course is intended for non-sworn persons who are employed by police and sheriff's departments.
- DSC P100 Communications Center Operations and Terrorism (O) 16 hours**  
This course teaches the basic knowledge for operational procedures when potential or real terrorist incidents are present. Prerequisite: Current employment as a dispatch operator and/or call taker.
- CRIMINAL JUSTICE - CORRECTIONS/PROBATION/LAW ENFORCEMENT ACADEMY**  
(Permission of Criminal Justice Training Institute required prior to admission)
- CJK V006 CMS Introduction & Law (O)\* 67 hours**  
This course reviews graduation requirements and recruit expectations during Academy attendance. It will help the student to understand the components of the Criminal Justice System and the proper use of the chain of command in an organization. It will assist the student in learning Constitutional Law and Florida Statutes and to understand the Police Code of Ethics.
- CJK V007 Introduction to Law Enforcement (O) 11 hours**  
This course reviews graduation requirements and recruit expectations during Academy attendance. It teaches components of the Criminal Justice System, and the proper use of the chain of command in an organization, and provides a definition of what constitutes sexual harassment, and an understanding of the Police Code of Ethics.
- CJK V010 CMS Human Issues (O) 50 hours**  
This course teaches techniques to enhance awareness and understanding of human diversity issues and to provide skills that enable new officers to effectively interact with people of diverse populations.
- CJK V011 Human Issues (O) 40 hours**  
This course teaches techniques to enhance awareness and understanding of human diversity issues and to provide skills that enable new officers to effectively interact with people of diverse populations.
- CJK V040C Criminal Justice Firearms (O)\* 80 hours**  
This course teaches the basic skills and knowledge needed to safely utilize a firearm.
- CJK V017 Communications (O)\* 76 hours**  
This course teaches the police communication and report writing process. Topics include interviewing and interrogation, IPC skills, radio and telephone procedures, as well as practice exercises. Objectives are as specified by the CJSTC.

\*Prerequisite: Acceptance into the Law Enforcement Basic Recruit Training Program

- CJK V286 Criminal Justice Communications (O)\* 42 hours**  
This course teaches instruction in the various areas of law enforcement communication beginning with the interview process through submission of the final written report. The student studies the interview process, interrogation techniques, notetaking skills, recording the interview, interpersonal skills including verbal and written communication, and the resources available through the Florida Crime Information Center. This course is part of the Corrections Academy.
- CJK V270 Criminal Justice Legal I (O)\* 46 hours**  
This course provides an introductory overview of the criminal justice system and history of the law. The focus of the course is on officer application of the law. Court procedures and testimony are also studied. This course is part of the Corrections Academy.
- CJK V285 Criminal Justice Legal II (O)\* 22 hours**  
This course provides instruction in Constitutional Law and its applications to the public and to the officer's duties. Laws, elements of various crimes, civil law applications, and the criminal and civil liability of officers are studied. This course is part of the Corrections Academy.
- CJK V211 Cross-Over Correctional to CMS L. E. Introduction (O)\* 94 hours**  
This course teaches the fundamentals of the new CMS Law Enforcement curriculum. The student is introduced to topics presented in the Law Enforcement Basic Recruit Training. Prerequisite: The student should have successfully completed Basic Recruit Training and be certified as a Corrections Officer in the State of Florida prior to registering for this course.
- CJK V212 Cross-Over Correctional to CMS L. E. High Liability (O)\* 8 hours**  
This course teaches the fundamentals of the new CMS Law Enforcement curriculum. The student is introduced to topics such as night firing presented in the Law Enforcement Basic Recruit Training. Prerequisite: The student should have successfully completed Basic Recruit Training and be certified as a Corrections Officer in the State of Florida prior to registering for this course.
- CJK V213 Cross-Over Correctional to CMS L. E. Tactical Applications (O)\* 40 hours**  
This course teaches the fundamentals of the new CMS Law Enforcement curriculum. The student is introduced to crowd control, court procedures, rescue and bombs. Prerequisite: The student should have successfully completed Basic Recruit Training and be certified as a Corrections Officer in the State of Florida prior to registering for this course.
- CJK V031 First Aid for Criminal Justice Officers (O)\* 40 hours**  
This course teaches prospective officers to apply all applicable first responder knowledge and techniques to emergency situations. Prerequisite: Acceptance into the Law Enforcement Basic Recruit Training program.
- CJK V100 Interpersonal Skills I - Corrections (O)\* 62 hours**  
This course addresses the interpersonal skills used within a correctional facility by the Corrections Officer, including handling various types of inmates, intervention techniques, and crime prevention. This course is part of the Corrections Academy.
- CJK V101 Interpersonal Skills II (O)\* 50 hours**  
This course addresses the extensive interpersonal skills used by the corrections officer within the corrections facility. Topics include inmate adjustment, types/classifications of inmates, female inmates, inmate crime, and inmate manipulation. This course is part of the Corrections Academy.
- CJD P951 Employment Interviewing-Criminal Justice Professional (O)\* 16 hours**  
This course teaches the fundamental skills to successfully complete an employment interview with a criminal justice agency. Prerequisite: Completion of Law Enforcement or Correctional Officer Basic Recruit Academy.

\*Prerequisite: Acceptance into the Law Enforcement Basic Recruit Training Program

- CJK V107 Law Enforcement Equivalency Training (O) 80 hours**  
 This course gives the student the necessary training and information required by the Florida Department of Law Enforcement for the student to qualify to take the Law Enforcement State Certification Examination. The course includes high liability training: firearms, medical first responder, vehicle operations and defensive tactics. Other blocks of instruction include legal and other law enforcement related topics. Prerequisite: Must be certified out-of-state or military police officer, and have been employed at least one year with an out-of-state law enforcement agency. Lab fee \$100.00.
- CJD V747 Corrections Equivalency Training (O)\* 60 hours**  
 This course teaches the topics needed to prepare for the Correctional Officer State Certification Examination. In order to enter this selective admissions course, the student must have previously been a Correctional Officer in another state or have served in this capacity while in the armed forces. Prerequisite: Certified out-of-state or Military Correctional Officer. Corequisite: Employed at least one year as a Correctional Officer. Lab fee \$100.00.
- CJK V082 Traffic Stops (O) 24 hours**  
 This course teaches the basic rules for conducting safe, effective traffic stops.
- CJK V083 DUI Traffic Stops (O)\* 24 hours**  
 This course teaches identification and general strategies for deterring and solving the problem of impaired driving.
- CDT P048 Breath Test Operator Renewal Training (O)\*\* 6 hours**  
 This course reviews all goals and objectives previously taught in the Breath Test Operator course and is required for operators to maintain their Florida Department of Law Enforcement certification. Student must properly conduct a breath test, prepare all forms and complete the standardized written examination. Lab fee \$5.00.
- CJD P255 Electronic Defense Technology Basic Instructor Training (O)\*\* 36 hours**  
 This course teaches law enforcement and correctional officers how to instruct others in the proper use of the various types of electronic defense technology used for the purpose of restraining an individual. Practical skills presentations and demonstrations complement the instructional materials.
- CJD P950 General Facilitator Transition Training (O)\*\* 16 hours**  
 This course teaches the facilitation of a Curriculum Maintenance System (CMS) module to the Florida Department of Law Enforcement (FDLE) certified instructor through preparation of lessons, use of instructional materials, and use of group facilitation and instructor skills.
- CJD P462 Preventing Riots and Disturbances (O)\*\* 24 hours**  
 This course examines riots and disturbances within correctional facilities. Students review the history of riots and disturbances, strategies to prevent these events, and how to appropriately respond to them in the event that they occur. Students prepare an emergency response plan.
- CJD P235 Intoxilyzer Agency Inspector Training (O)\*\* 24 hours**  
 This course teaches the information and skills necessary for an individual to become a breath test agency inspector under Florida Department of Law Enforcement Administrative Rule 11D-8.
- CCJ P650 Law Enforcement in the Interdiction of Narcotics (O)\*\* 40 hours**  
 This course teaches the methods and skills for conducting tactical narcotics operations in rural, wooded or remote areas. Students explore ways to effectively and safely respond to illegal narcotics operations that are occurring in inaccessible areas.

\*Prerequisite: Acceptance into the Law Enforcement Basic Recruit Training Program

\*\*Prerequisite: Florida State Certified Law Enforcement, Corrections and Probation Officers only or permission of Criminal Justice Department.

**CJD P234 Intoxilyzer Inspector Recertification Course (O)\* 4 hours**  
This course is for law enforcement and corrections officers who are already certified as intoxilyzer inspectors for their respective agencies. This course is required in order to maintain certification as an intoxilyzer inspector. This course reviews and refreshes the student's knowledge of previously learned material and instructs on any new information since the previous intoxilyzer inspector certification course. Student must have completed the Basic Intoxilyzer Inspector Course.

**CJD P210 Law Enforcement Recruiting (O)\* 24 hours**  
This course teaches the Law Enforcement professional the skills necessary for effective recruiting. Students learn the characteristics of a successful recruiter, the five deadly sins of a recruiter, communication skills for the recruiter, and the recruiter sales skills. The course focus is on the recruiting process and how the agency recruiter can enhance the quality of applicants.

## DENTAL ASSISTING

**DEA 1028 Pre-Clinical Orientation (O) 6 credits**  
This course teaches the essential concepts of psychology and communication microbiology, dental hand instruments, dental handpieces and accessories, dealing with the medically and physically compromised patients, oral diagnosis and treatment planning, anesthesia and pain control, restorative dentistry, matrix systems for restorative dentistry, fixed prosthodontics, and removable prosthodontics.

**DEA 1028L Pre-Clinical Orientation Lab (O) 2 credits**  
This course teaches clinical content necessary to work with a dentist. The student actively participates in practice procedures on mannequins as well as scheduled dental procedures with patients and dentists. Communicating with dental patients, microbiology and disease transmission, dental instruments, dental handpieces and accessories, medically and physically compromised patients, oral diagnosis and treatment planning, anesthesia and pain control, restorative dentistry, matrix systems for restorative dentistry, fixed prosthodontics, and removable prosthodontics are included. Lab fee \$25.00. Insurance fee \$22.00.

**DEA 1136 Related Dental Theory (O) 4 credits**  
This course teaches scientific areas related to the field of dentistry, including nutrition, pharmacology, pathology, human anatomy and physiology, and embryology/histology.

**DES 2502L Dental Office Management Lab (O) 1 credit**  
This course teaches office management procedures, which include manage telephone, plan treatment and appointment control, perform financial transactions, complete third party reimbursement forms, maintain supply inventory, manage recall systems, and operate business equipment including computers. Lab fee \$25.00.

**DEA 1805 Clinical Practice I (O) 2 credits**  
This course teaches the skills necessary to assist a dentist with endodontic procedures, oral and maxillofacial surgery procedures, dental implants procedures, periodontal procedures, and pediatric dentistry. Prerequisite: DEA 1028.

**DEA 1805L Clinical Practice I Lab (O) 4 credits**  
This is a combination of Pre-clinical Orientation Lab through an internship program in a private dental practice and college dental facility. Students have additional responsibilities in the area of restorative and cosmetic dentistry, fixed and removable prosthodontics, radiography requirements, infection control, team leadership, receptionist responsibilities, patient management, and expanded functions. Additional topics include endodontics, oral and maxillofacial surgery, dental implants, periodontics, and pediatric dentistry. Prerequisite: DEA 1028L. Lab fee \$25.00.

\*Prerequisite: Florida State Certified Law Enforcement, Corrections and Probation Officers only or permission of Criminal Justice Department.



**DEA 1855 Clinical Practice II (O) 1 credit**

This course teaches the skills necessary to demonstrate independence and judgment learned in previous clinical instruction to provide patient services. Proficiency in all areas of dental assisting is stressed. Prerequisite: DEA 1805.

**DEA 1855L Clinical Practice II Lab (O) 4 credits**

This course teaches skills necessary to comprehensively prepare competent individuals as Dental Assistants through an internship program in a private dental practice. Prerequisite: DEA 1805L. Lab fee \$25.00.

**DES 1832 Expanded Functions I (O) 2 credits**

This course teaches how to perform expanded functions as permitted by the Florida State Board of Dentistry. Included are the ethical and legal aspects of dentistry, applying sealants, making impressions for study casts, placing and removing rubber dam and matrices, applying cavity liners, varnishes and bases, and placing or removing temporary restorations. Corequisite: DES 1832L.

**DES 1832L Expanded Functions I Lab (O) 1 credit**

This course teaches how to perform expanded functions permitted by the Florida State Board of Dentistry. Included are the ethical and legal aspects of dentistry, applying sealants, making impressions for study casts, placing and removing rubber dam and matrices, applying cavity liners, varnishes and bases, and placing or removing temporary restorations. Corequisite: DES 1832. Lab fee \$25.00.

**DES 1833 Expanded Functions II (O) 2 credits**

This course teaches how to perform expanded functions permitted by the Florida State Board of Dentistry. Included are suture removal, insert and remove dressings from alveolar sockets in post-operative osteitis, packing and removing retraction cord, fabricating provisional restorations intra-orally, cementing temporary crowns and bridges with temporary cement, removing excess cement from dental restorations and appliances, and placing and removing periodontal dressings. Corequisite: DES 1833L.

**DES 1833L Expanded Functions II Lab (O) 1 credit**

This course teaches how to perform expanded functions permitted by the Florida State Board of Dentistry. Included are suture removal, insert and remove dressings from alveolar sockets in post-operative osteitis, packing and removing retraction cord, fabricating provisional restorations intra-orally, cementing temporary crowns and bridges with temporary cement, removing excess cement from dental restorations and appliances, and placing and removing periodontal dressings. Corequisite: DES 1833. Lab fee \$25.00.

**DEA 1931 Orthodontics Expanded Functions (O) 1 credits**

This course teaches the theory and skills necessary to perform orthodontic expanded functions permitted by the Florida State Board of Dentistry.

**DENTAL HYGIENE****DEH 1003 Pre-Clinical Dental Hygiene (O) 1 credit**

This course is an introduction to the dental hygiene profession, professional conduct, and the theory and practice necessary for instrumentation. Lecture sessions focus on the use of dental hygiene instruments and performance of an extra and intraoral examination. Emphasis is placed on beginning instrumentation skills. Corequisite: DEH 1003L.

**DEH 1003L Pre-Clinical Dental Hygiene Lab (O) 2 credits**

This course introduces the theory and practical skills necessary for instrumentation. Clinical sessions are included to demonstrate competency in the use of dental hygiene instruments, and performing an extra and intraoral examination. Emphasis is placed on beginning instrumentation skills. Corequisite: DEH 1003. Lab fee \$20.00. Insurance fee \$22.00.

- DEH 1130 Oral Embryology and Histology (0) 2 credits**  
This course studies the early embryonic development of the face and oral cavity and the process of tooth development. Included is a study of the microscopic structure and morphology of the tissues of the teeth and supporting structures.
- DEH 1300 Pharmacology (0) 2 credits**  
This course studies the usage, administration, indications, contraindications, adverse reactions, and precautions of pharmaceutical preparations. Special consideration is given to the therapeutic agents used in the treatment of dental disease. Prerequisite: BSC 2093, BSC 2093L. Corequisite: BSC 2094, BSC 2094L.
- DEH 1800 Clinical Dental Hygiene I (0) 2 credits**  
This course is a continuation of clinical dental hygiene skills. Beginning patient care is emphasized as it applies to clinical policy, safety practices, assessment procedures, radiographic interpretation, instrumentation, stain removal and fluoride. Instrument sharpening, root planing and plaque control procedures are included. Prerequisite: DES 1800, DES 1800L, DEH 1003, DEH 1003L. Corequisite: DEH 1800L.
- DEH 1800L Clinical Dental Hygiene I Lab (0) 3 credits**  
This is the first of four clinical dental hygiene courses. Students begin patient care on relatively non-complex patients in a closely monitored clinical environment. Students apply clinic policies, safety practices, assessment procedures, radiographic techniques, instrumentation, stain removal and the application of fluorides learned in pre-clinical courses to create individualized care plans. Instrument sharpening, root planing and plaque control procedures are included. Prerequisite: DES 1800, DES 1800L, DEH 1003, DEH 1003L. Corequisite: DEH 1800. Lab fee \$20.00.
- DEH 1802 Clinical Dental Hygiene II (0) 2 credits**  
This course prepares the student for developing and administering alterations in the treatment of the medically, physically and/or mentally compromised patients, or those who have special needs. The student researches and learns a variety of complex medical conditions and the relationship to dental hygiene therapeutic care. The process of development, treatment planning and implementation of care on clinical patients is reinforced with emphasis on medically and periodontally involved patients. Prerequisite: DEH 1800, DEH 1800L, DEH 2602. Corequisite: DEH 1802L, DEH 2602L.
- DEH 1802L Clinical Dental Hygiene II Lab (0) 2 credits**  
This course is a continuation of clinical dental hygiene skills. A continued development and competency of clinical skills enables the student to provide increasingly comprehensive services to patients including assessment, recare, motivation, and patient education. Care for the special needs patient is also included. Students are introduced to adjunctive techniques utilizing ultrasonic scaling devices and air polishers. Prerequisite: DEH 1800, DEH 1800L, DEH 2602. Corequisite: DEH 1802, DEH 2602L. Lab fee \$20.00.
- DEH 2400 General and Oral Pathology (0) 2 credits**  
This course studies the principles of general pathology with consideration of the more common diseases affecting the human body. Major emphasis is given to the study of pathological conditions of the teeth, soft tissues, and supporting structures of the oral cavity. Prerequisite: BSC 2094, BSC 2094L, MCB 2010, MCB 2010L, DEH 1130.
- DEH 2804 Clinical Dental Hygiene III (0) 2 credits**  
This course teaches the student to demonstrate independence and to use evidence-based knowledge learned in previous clinical instruction for planning patient services, as well as professional and ethical judgement. Competency in all areas of dental hygiene is stressed. Case documentation, dental hygiene treatment planning, nutritional counseling, and intraoral photography are included. Prerequisite: DEH 1802, DEH 1802L, DES 1053. Corequisite: HUN 1201, DEH 2804L.

- DEH 2804L Clinical Dental Hygiene III Lab (O) 4 credits**  
This course emphasizes individualized evidence-based care planning for the periodontal and special needs patient. The student demonstrates competency in oral prophylaxis, root surface debridement and detoxification. Appropriate integration of newly introduced advanced techniques and technology such as nitrous oxide conscious sedation, intraoral photography, phase contrast microscope, chemotherapeutics and nutritional counseling may be used. Comprehensive patient case reporting is required. Prerequisite: DEH 1802, DEH 1802L. Corequisite: HUN 1201, DEH 2804. Lab fee \$25.00. Insurance fee \$22.00.
- DEH 2806 Clinical Dental Hygiene IV (O) 2 credits**  
This final course in the clinical dental hygiene series focuses on the understanding of ethics, professional codes, the law and risk management as applied to the dental hygiene practice setting. Students prepare to seek employment as dental hygienists. Other topics include current and future directions of the career field. This course also includes the introduction of advance techniques and new technologies in patient care. Students are prepared for state licensure requirements and examination. Prerequisite: DEH 2804, DEH 2804L. Corequisite: DEH 2806L.
- DEH 2806L Clinical Dental Hygiene IV Lab (O) 5 credits**  
This final course emphasizes increased efficiency in the provision of an oral prophylaxis, root surface debridement and detoxification, comprehensive treatment planning and use of ultrasonics and air polishers. Critical thinking skills are emphasized during patient care to include evidence-based sequential treatment planning. Self assessment and application of professional ethical judgement is expected in all areas of clinical practice. Preparation for the state licensure examination and entry level employment is included. Prerequisite: DEH 2804, DEH 2804L. Corequisite: DEH 2806. Lab fee \$30.00.
- DEH 2702 Community Dental Health (O) 2 credits**  
This course teaches the essential concepts of community and public health dentistry. Basic statistical concepts, program development, implementation, research, and evaluation are included. The role of the dental hygienist in community dental programs and dental health education is emphasized. Corequisite: SPC 1608.
- DEH 2702L Community Dental Health Lab (O) 1 credit**  
This course teaches the application of basic statistical concepts, program development, implementation, research, and evaluation. The student is provided with the opportunity to apply the principles of public and community dental health, as they relate to the role of the dental hygienist, through project implementation and evaluation. Prerequisite: SPC 1608, DEH 2702.
- DES 2051 Pain Control and Anesthesia (O) 1 credit**  
This course teaches and covers pain perception, pain reaction, methods of pain control, and the use of nitrous oxide-oxygen conscious sedation in dentistry. The relevance of psychosomatic pain control and topical and local anesthesia to dental hygiene practice is emphasized.
- DEH 2602 Periodontology (O) 2 credits**  
This course studies the characteristics, etiology, prognosis, and treatment of periodontal disease. Periodontal examination, treatment planning, and the dental hygienist's role in periodontal therapy are emphasized and risk assessment is introduced. Prerequisite: DEH 1130.
- DEH 2602L Periodontology Lab (O) 1 credit**  
This course studies additional non-surgical periodontal therapies and equipment available in the treatment of periodontal disease. Periodontal examination, treatment planning, and the dental hygienist's role in periodontal therapy are emphasized through clinical application. An introduction to oral risk assessment, ultrasonic instrumentation, air polishing, chemotherapeutic agents, and adjunctive oral hygiene aids are included. Prerequisite: DEH 1130, DEH 2602. Lab fee \$20.00.

**DES 2530C Expanded Functions (0)** **2 credits**  
This course covers the knowledge and clinical practice to perform expanded functions permitted by the Florida State Board of Dentistry. Lab fee \$50.00.

### **DENTAL ASSISTING/DENTAL HYGIENE**

**DES 1020 Head, Neck & Dental Anatomy (0)** **3 credits**  
This course teaches tooth morphology and the relationship of the teeth to one another and to their surrounding structures. Coverage is given to the occlusion of the teeth, bones of the skull, muscles, nerves, and blood vessels.

**DES 1051 Nitrous Oxide Monitoring (0)** **1 credit**  
This course provides training and monitoring of nitrous oxide inhalation anesthesia and meets the criteria under Chapter 64B5 of the Florida State Board of Dentistry.

**DES 1100 Elements of Dental Materials (0)** **2 credits**  
This course teaches the nomenclature, characteristics, and application of the materials used in the dental laboratory and clinical practice of dentistry. Corequisite: DES 1100L.

**DES 1100L Elements of Dental Materials Lab (0)** **1 credit**  
This course teaches the lab component of DES 1100 and covers materials used in the laboratory and clinical practice of dentistry. Corequisite: DES 1100. Lab Fee \$100.00.

**DES 1200 Dental Radiography (0)** **2 credits**  
This course teaches the nature, physical behavior, biological effects, methods of control, safety precautions, and the techniques for exposing, processing, and mounting radiographs. Corequisite: DES 1200L.

**DES 1200L Dental Radiography Lab (0)** **1 credit**  
This course is a compliment to the dental radiography lecture. The students apply radiographic techniques to clinical practice, including periapical, bitewing, occlusal, extraoral and digital radiographs. Corequisite: DES 1200. Lab fee \$100.00.

**DES 1800 Introduction to Clinical Procedures (0)** **2 credits**  
This course teaches dental office professionalism, patient reception and positioning for the delivery of care. It also covers instrument exchange and oral evacuation, disease transmission and infection control, principles and techniques of disinfection, principles and techniques of instrument processing and sterilization, occupational health and safety, chemical and waste management. Patient information and assessment, vital signs, oral diagnosis and treatment planning, coronal polishing, history of dentistry, and the dental health team are included. Corequisite: DES 1800L.

**DES 1800L Introduction to Clinical Procedures Lab (0)** **1 - 2 credit**  
This course teaches practical skills in dentistry. The student actively participates in scheduled dental evaluations for the following areas: professionalism, the dental office, patient reception and positioning for delivery of care, instrument exchange and oral evacuation, disease transmission and infection control, principles and techniques of disinfection, principles and techniques of instrument processing and sterilization, occupational health and safety, chemical and waste management, patient information and assessment, vital signs, oral diagnosis and treatment planning, history of dentistry and the rolls of the dental health team. Corequisite: DES 1800. Lab fee \$20.00.

**DES 1600 Health Office Emergencies (0)** **2 credits**  
This course presents information for dealing with medical emergencies that may occur in a dental office/clinic.

**DES 1840 Preventive Dentistry (0)** **1 credit**  
This course teaches the dental auxiliary's role in patient care. The philosophy of preventive dentistry and methods of plaque control are emphasized in conjunction with patient education. Tooth stains, discolorations, hypersensitive teeth and fluoride are also discussed. Corequisite: DES 1840L.

- DES 1840L Preventive Dentistry Lab (0)** **1 credit**  
 This course teaches the clinical application of preventive dentistry. The dental auxiliary's role in patient care is introduced. Emphasis is placed on skills required to develop plaque control programs to meet individual patient needs. Topics and areas for skill development include toothbrushing methods, supplementary aids for oral physiotherapy, disclosing agents, oral indices, fluorides, care of removable appliances, risk assessment, early disease detection, interceptive and preventative strategies, and care plans. Corequisite: DES 1840. Lab fee \$20.00.
- DES 2502 Dental Office Management (0)** **1 credit**  
 This course teaches telephone techniques, appointment control, records management, accounting and business procedures associated with the dental office, inventory and purchasing control of dental office supplies, as well as written communication skills and résumé writing and dental office computer programs.
- DENTAL LABORATORY TECHNOLOGY**
- DTE 1050 Dental Materials I (0)** **2 credits**  
 This course emphasizes the identification of physical and mechanical properties of dental materials. Topics include waxes, acrylics, and other materials used in the laboratory.
- DTE 1010 Oral Anatomy (0)** **2 credits**  
 This course emphasizes identification of anatomical features of the head and oral cavity. Topics include nerve and blood supply, origins and insertions of muscles of mastication, anatomical features of the Alveolar process, and movements of the temporal-mandibular joint.
- DTE 1020 Tooth Physiology and Anatomy Theory (0)** **2 credits**  
 This course emphasizes the theory of teeth and their supporting structures. Topics include written definitions of relevant nomenclature, dental anatomy, and function.
- DTE 1020L Tooth Physiology and Anatomy Lab (0)** **3 credits**  
 The student will carve natural size teeth in wax medium. Lab fee \$20.00.
- DTE 1103 Complete Denture Theory (0)** **2 credits**  
 This course emphasizes the steps of denture construction. Topics include identification of lab stone and plaster, acrylic resins, and descriptions of the theory inherent in various phases of denture construction, investing, finishing, relining, and repair of dentures.
- DTE 1103L Complete Denture Lab (0)** **4 credits**  
 The student will use lab stone and plaster, acrylic resins and articulations, and will construct individual casts, trays, baseplates, and occlusion rims. The student will work with the theory inherent in denture construction and will set up teeth for different classes of arch forms. Included will be investing, finishing, relining, and repair of dentures. This course emphasizes the steps of denture construction. Lab fee \$80.00.
- DTE 1132 Orthodontic and Pedodontic Theory (0)** **1 credit**  
 This course emphasizes theory in the fabrication of removable orthodontic appliances. Topics will include Hawley retainers, tooth movement appliances, functional appliances, and orthodontic study models.
- DTE 1132L Orthodontic and Pedodontic Lab (0)** **2 credits**  
 This course provides laboratory application of orthodontic and pedodontic theory. Lab fee \$75.00.
- DTE 2030 Occlusal Topography Theory (0)** **1 credit**  
 This course emphasizes the theory of dental occlusion, including surfaces of teeth.
- DTE 2030L Occlusal Topography Lab (0)** **2 credits**  
 This course provides laboratory application of the theory of topography. Lab fee \$45.00.
- DTE 2107 Partial Denture Theory (0)** **2 credits**  
 This course teaches the theory and nomenclature of partial denture construction.

- DIG 4780 Modeling for Real-Time Systems (U)** **3 credits**  
This course teaches advanced principles of construction of 3D models for real-time applications which respond to internal or external stimuli in a preset time period. The students blend the discrete process of simulation with the continuous nature of real time constraints. Topics include level of detail management and efficiency versus visual quality for video games and simulation. Prerequisite: DIG 3870.
- DIG 4770 Building Virtual Worlds (U)** **3 credits**  
This course teaches the design and construction of virtual worlds and related software for networked interactive games, learning environments, entertainment and communication systems in conjunction with tools for enabling dramatic, artistic and technical creativity. Topics include the creation of virtual worlds in MUD, MOO, and MMORPG environments as well as discussions of ethics, economics, geo-cultural and social considerations. Prerequisite: DIG 3713.
- GRA 4941 Digital Media Internship/Practicum (U)** **3 credits**  
This course offers practical experience in the application of graphic design knowledge acquired in the classroom. Students work in a digital media related business or independently as a consultant to an established business with varied graphics needs. Students are required to work a minimum of 100 unpaid hours, maintain information log sheets, secure samples of their work, satisfy two employer evaluations, and produce a resume and a portfolio. This course gives trained students the opportunity to work in a digital media related business prior to graduation. Prerequisites: DIG 4725 or DIG 4375 or GRA 3512 and permission of instructor.
- GRA 4950 Digital Media Portfolio (U)** **3 credits**  
This course focuses on the development and execution of an advanced digital media portfolio with emphasis on printed and digital materials, including an online format. Topics include the creation of a personal business packet and self promotional pieces. Interview and job search skills are discussed and developed. Individual assignments are given to strengthen and round out each portfolio and expand skills in 3D modeling, animation, and digital compositing. Students interview industry professionals on-site, present a class seminar, and organize a video/multimedia exhibit. Guest lecturers review student work and advise on career opportunities. Prerequisites: DIG 4725 or DIG 4375 or GRA 3512.
- GRA 3102 Principles of Visual Communication (U)** **3 credits**  
This course increases awareness and understanding of the impact that images have in a visual message. Explored are design principles and image making techniques including the idea, concept development, information hierarchy, visual metaphors, and composition. Through lectures, examples, and independent research, students gain insight into a variety of major design influences. Prerequisite: DIG 1000, DIG 1115, DIG 2030, DIG 2302, GRA 1129.
- GRA 3512 Branding and Corporate Identity (U)** **3 credits**  
This course explores the application of visual identity systems for large, medium, and small companies. Comprehensive research on color symbolism, graphic forms, typography, and design is required. Students design identity systems stressing creative solutions and originality. Prerequisite: DIG 1000, DIG 1115, DIG 2030, DIG 2302, GRA 1129.
- GRA 4154 Advanced Illustration Methods (U)** **3 credits**  
This course presents theoretical and practical aspects of digital imaging in graphic design. It emphasizes communication through images, visual thinking, creation of a visual language, imaginative use of forms, symbols, and techniques. Topics include a comprehensive exploration of both the message and the medium. Students design high-quality printed portfolio pieces such as design of posters, CD covers, electronic collages and illustrations, Internet Web pages, and other projects of relevance in today's society. Prerequisite: GRA 3102.

- GRA 3735 Multimedia Production (U)** **3 credits**  
This course teaches narrative forms of time-based graphics software and their uses in digital media projects. Visual language content is integrated into web sites, print graphics and other images, animations, video and audio files for multimedia productions. The emphasis is on creating cohesive presentations using effectively diverse digital media in an efficient manner. Prerequisite: DIG 1000, DIG 1115, DIG 2030, DIG 2302, GRA 1129, GRA 2160, GRA 1151.
- GRA 3758 Advanced HTML and CSS for Web Design (U)** **3 credits**  
This course teaches advanced techniques in Web page design. Topics covered include HTML, XML, XHTML, DHTML, and Javascript. The use of Cascading Style Sheets (CSS) and database information are emphasized. Students create numerous original and template-based Web page designs for professional applications and e-commerce. Prerequisites: CGS 1821, DIG 1000, DIG 1115, GRA 1129, GRA 2160.
- GRA 4116 Advanced Advertising Design and Graphics (U)** **3 credits**  
Students create a variety of individual advertisements and creative concepts. After some historic overview, this course emphasizes the analysis and application of design principles for logos and trademarks, brochures and flyers, and newsletters. Other topics include psychology of color, typography, color and black-and-white visuals. The focus is in integrating software skills, art fundamentals, business approaches, and entrepreneurship principles to real-life situations. Students may be dealing directly with outside clients with advanced design projects in visual communications. Prerequisite: GRA 3102.
- GRA 4119 Type and Package Design (U)** **3 credits**  
This course explores the principles of graphic and three dimensional design as they apply to packaging and displays. Topics include functional and formal aspects of packaging, branding, and conceptual development and problem-solving in three dimensional graphic design systems. Emphasis is placed on improving creativity skills while working individually and in teams. Prerequisite: GRA 3512.
- GRA 4137 Advanced Web Design (U)** **3 credits**  
This course presents advanced concepts in Web design, including interactivity and animation. It is for students who have mastered the skills of building a basic Web site and want to advance to more sophisticated interface design and techniques. Students are challenged to solve advanced communication problems while addressing technical issues related to Web design and user experience. An emphasis is placed on Web standards, advanced HTML and CSS, usability and aesthetics. Students work with industry standard tools to produce or simulate real world projects. Prerequisite: CGS 1821, GRA 1129, GRA 2160, DIG 1115, DIG 2030.
- GRA 4513 Communication Design and Visual Persuasion (U)** **3 credits**  
Students explore and decipher messages in product promotion for television, Web site, and print. Students are taught how to use visual rhetoric and persuasion to educate a target audience about products and services. Various theories and practices used in the advertising industry are also discussed. Emphasis is placed on design solutions for product promotion. Prerequisite: GRA 3102.
- CGS 4845 Advanced E-Commerce (U)** **3 credits**  
Students are required to develop an e-commerce business plan and build a prototype Web site with all functionalities required to effectively execute commercial transactions. Topics include applications of server-side Internet programming languages, media theory in e-commerce, Internet security, and online portals. Prerequisite: GRA 4137.
- GRA 4591 Art Direction and Creative Process (U)** **3 credits**  
This course examines the role of the art director in producing multi-faceted design projects. Students work in a team environment in improving leadership, communication, and negotiation skills. Emphasis is placed upon coordinating creative efforts from concept to finished product. Prerequisite: GRA 3102.

**GRA 4738 Multimedia Production II (U)****3 credits**

This course continues the instruction of multimedia graphics applications and their uses in digital media design projects with an emphasis on multimedia integration, user interface design and interactive project design. Students will expand their knowledge applying advanced techniques for video and audio production, Web site work, editing graphics, motion graphics, and animation scripting. Prerequisite: GRA 3735.

**GRA 4954 Digital Media Capstone Project (U)****2 credits**

This course teaches the development of a personal Web site to showcase the student's professional portfolio, design philosophy and credentials. Students enrolling in this course are required to launch a Web site with a proprietary URL on a commercial server prior to the completion of the course. Students are evaluated on the appropriateness and level of completion of the Web site, and on the conceptual, formal and technical development of their portfolio. Prerequisite: DIG 4725 or DIG 4375 or GRA 3512 and permission of instructor. Pre/Corequisite: GRA 4950.

**DRAFTING AND DESIGN TECHNOLOGY****BCN 2251 Architectural Drafting - Residential****3 credits**

This course teaches architectural drafting for a residential home. Architectural design and floor plan layout is emphasized. Prerequisite: BCN 1250 or permission of instructor. Lab fee \$30.00.

**BCN 1250 Architectural Drafting Principles****3 credits**

This is an introductory level course, covering from basic drafting skills, such as line technique, lettering, dimensioning and symbols, to the development of a set of architectural drawings. Lessons include site plans, foundations, walls, wall sections, floors, roof design, stairs, elevations, sections, and construction details. Lab fee \$30.00.

**DIG 1930 Special Topics in Digital Media (O)****½ - 3 credits**

This course teaches selected topics in digital media and emerging technologies. It examines technologies shaping current electronic media, including among others: introduction to digital video animation; pre-production, production, and post production processes in digital video; presentation technologies and techniques, including Smartboards and digital imaging; wireless technologies; portable devices; virtual reality applications; digital libraries; and gaming.

**DIG 1000 Digital Media Principles (O)****3 credits**

This course teaches the fundamental elements of design, emphasizing the vocabulary of graphic design, technical skills required to handle industry specific software, and two-dimensional visual elements.

**DIG 1115 Digital Imaging Fundamentals (O)****3 credits**

This course teaches the fundamentals of image-editing tools for professional designers who want to produce sophisticated graphics for print and the Web using Adobe Photoshop. Photo retouching, image editing, and color painting will be among the topics covered.

**DIG 2030 Digital Video Fundamentals (O)****3 credits**

This course teaches the concise workflow of a Digital Video Production. Foundations for understanding the practical techniques, specialized language, and the dynamic nature of motion graphic aesthetics are developed. This course is designed for students and video enthusiasts interested in presenting video media within today's emerging formats. Prerequisite: DIG 1115.

**DIG 2116 Photoshop Level 2 (O)****3 credits**

This course teaches advanced features of the Adobe Photoshop application. Tools and techniques to create, edit and enhance digital images for desktop or Web publication are covered. Operation and troubleshooting of digital equipment, cameras, printers and scanners are also part of this course. Prerequisite: DIG 1115.



**DIG 2251 Digital Audio I (O)****3 credits**

This course is a project-based class that teaches how to create and edit audio with Adobe Soundbooth. This course covers recording and editing, removing unwanted noise, customizing sound effects, adding aural emphasis to a scene, and creating royalty-free music to match the mood of a production, using step-by-step instructions with projects that build on the knowledge learned in each lesson. Students learn techniques for recording new dialog tracks and sound effects while learning how to modify existing audio files with tools that cut, copy, paste, fade, stretch, and add effects.

**DIG 2581 Digital Media Portfolio (O)****3 credits**

This course is designed to assist students in their preparation of a portfolio of work representative of the curriculum in Digital Media at IRSC. The portfolio must consist of projects from coursework and professional projects or internship work and reflect an appreciation of the design process in creating their final projects. Design principles and creative expression are the primary factors in the development of a representative body of work in the students' career path. Prerequisite ETD 1815 or GRA 1151.

**ETD 1316 Orientation to AutoCAD Applications (O)****½ credit**

This course teaches overall concepts, program orientation, and basic instructions in the various commands, methods and techniques of application-based computer-aided drafting systems using AutoCAD as a base. Software operations are stressed and the student completes a series of tutorials, exercises, and drawings.

**EGS 1001 Introduction to Engineering****3 credits**

This course is an introductory course to the engineering and technology professions with emphasis on the spectrum of work opportunities and careers. The student is introduced to engineering work habits, responsibilities, communication, problem solving techniques and technical calculations. The various engineering specialties will be represented through appropriate presentations to be made by working professionals in the local engineering and technical community.

**EGS 1110 Engineering Graphics****3 credits**

This course presents basic graphical communications including the use of instruments, lettering, scales including metrics, engineering geometry, orthographic projection, sections, pictorials, dimensioning and tolerancing, and working drawings. Lab fee \$30.00.

**ETD 1315 Orientation to AutoCAD (O)****1 credit**

This course teaches AutoCAD startup procedures and menu applications used in the construction of a graphic display. Limited hands-on operation of AutoCAD software is provided.

**ETD 1320 Introduction to AutoCAD (O)****3 credits**

This course provides instruction on AutoCAD software. Startup procedures and menu applications used for construction of a graphic display and extensive hands-on experience on AutoCAD software is provided. Lab fee \$30.00.

**ETD 1842 3D Studio VIZ Level I (O)****3 credits**

This course teaches 3D Studio VIZ, a 3D visualization software. This course covers the creation of 3D models combined with intuitive multimedia tools for the creation of presentation graphics. Methods of modeling, creation of lighting systems, application of materials and production of rendered images along with special effects are among the topics covered. Prerequisite: ETD 1320.

**ETD 2340 AutoCAD Level 2 (O)****3 credits**

This course develops an understanding of the intermediate AutoCAD commands and concepts. Emphasis will be on implementing productivity into the design process through various drawing, editing, and display techniques. Prerequisite: ETD 1320. Lab fee \$30.00.

- ETD 2350C AutoCAD Level 3 (O)** **3 credits**  
This course teaches higher level instructions in the various commands, methods, and techniques of computer aided drafting systems using the latest AutoCAD releases. Hardware and software operations are stressed and the student completes a series of exercises and drawings. Prerequisite: ETD 2340.
- GRA 1112 QuarkXpress (O)** **3 credits**  
This course introduces students to the QuarkXpress layout and design software used in the graphics design industry. The course consists of a series of lessons covering the tools and functions of this program. QuarkXpress is an integrated publishing package used to combine text pictures, typography, writing, editing, and printing in one application.
- GRA 1151 Adobe Illustrator (O)** **3 credits**  
This course teaches the design and composition of illustrative artwork for print publishing and multi-media graphics using Adobe Illustrator. The course consists of a series of lessons, covering the tools and functions of this software.
- GRA 2152 Adobe Illustrator 2 (O)** **3 credits**  
This course teaches ways to create imagery from various sources. Techniques to enhance or alter existing images for the creation of totally new visuals are covered. New ways of approaching problem-solving are outlined in clear step-by-step fashion. Special effects, once the domain of high-end systems, are put into practical application. This course is for anyone interested in taking Illustrator beyond the introductory levels for print, Web, and other multimedia. Prerequisite: GRA 1151.
- PGY 1801 Introduction to Digital Photography (O)** **1 credit**  
This course teaches how to create and edit digital images. Techniques that enhance or alter existing images are covered. Use and maintenance of new equipment and technologies are also studied, along with special effects. The course also covers how to import, export, print and publish photographs on the Web.
- ETD 2218 Fundamentals of Geometric Dimensioning (O)** **3 credits**  
This course is an introductory course on the use of Geometric Dimensioning and Tolerancing (GD&T) and its application to the manufacturing environment. GD&T provides an international standard and symbology for the correct production of parts. Prerequisite: EGS 1110.
- ETD 2355 3D Modeling and Surface Generation (O)** **3 credits**  
This is an advanced course in mechanical design, utilizing advanced computer aided drafting techniques. Three-dimensional coordinate systems, wire frame modeling, surface generation, and multiple-part construction techniques will be among the topics covered. Prerequisite: ETD 2340.
- ETD 2371 Introduction to Prototyping (O)** **3 credits**  
This course teaches how to create physical 3D models using rapid prototyping, multiple manufacturing software applications, and multi-axis machining. Topics include design concepts, translation issues with software, set-up of 3D printers and multi-axis machines for metal operations, and the creation of the design in solid form. Sketches, constraints, and automated dimensions of the models and assembly parameters are discussed. Prerequisite: ETD 2355 or ETD 2365.
- ETI 2414 Introduction to CNC Machining (O)** **3 credits**  
This course teaches machining processes, equipment, and systems used in competitive manufacturing environments. Presented are characteristics of surface technology, micro-electronic device fabrication, quality assurance and control, human factors engineering, product liability, automation procedures, and techniques of modern integrated manufacturing systems. Class projects may include the design and fabrication of various parts using the machines and instruments available in the lab. Prerequisite: ETD 2355.

- DIG 2302 3D Digital Animation I (O) 3 credits**  
This course introduces students to the use of 3D Studio Max and/or Maya for still image renderings and 3D animations. Topics include fundamentals of modeling, texturing, lighting, animation, and rendering. The software is used to create geometry, still images, and animated scenes. The primary functions of all five modules in 3D Studio is presented. This is a heavily project-based class that builds numerous short animated videos. Lab fee \$30.00.
- DIG 2292 Digital Video Post Production (O) 3 credits**  
This course introduces students to the world of digital movie-making. Students learn how to create, record, and play movies from video, sound, animations, photographs, drawings, text, and other materials. Prerequisite: DIG 1115.
- DIG 2303 3D Digital Animation II (O) 3 credits**  
This course is an advanced course in 3D studio rendering and animation software. The course will build upon skills learned in Level I. These include complex detailed modeling, editing models at the vertex and face levels, in-depth exploration of the Loft function, development of complex materials, multiple path control in the keyframer, and video post function. Prerequisite: DIG 2302.
- ETD 2365 Computer Aided Drafting - Mechanical (O) 3 credits**  
This course teaches using software a 3D feature-based parametric solid modeler that allows the creation of 3D parametric models, and can generate 2D views from those models. Topics include command-based instructions in all four modules: part modeling, assembly modeling, surface modeling, and the drawing manager. Prerequisite: ETD 2340 or permission of instructor. Lab fee \$30.00.
- ETD 2395 Computer Aided Drafting - Architectural (O) 3 credits**  
This course instructs the student on preparing architectural drawings using specialized CAD commands applicable to the architectural field. The architectural desktop module will be used in conjunction with AutoCAD to complete the required assignments, which will be designed with real world examples that confront designers and drafters. Prerequisite: ETD 2340 and BCN 1250 or permission of instructor. Lab fee \$30.00.
- ETD 2551 Computer Aided Drafting - Civil (O) 3 credits**  
This course instructs the student on preparing civil/survey style of drawings using AutoCAD software in conjunction with the Softdesk Civil modules. Students will complete advanced drawing assignments which will be designed with real world examples that face designers and drafters each day. Commands of the application software will be stressed along with file management and plotting. Prerequisite: ETD 2340. Lab fee \$30.00.
- ETD 2554C Computer Aided Drafting - Surveying (O) 3 credits**  
This course instructs the student on the preparation of civil/survey style drawings using AutoCAD software in conjunction with the Softdesk Civil modules, "Survey." Student will complete advanced problems with state plane coordinate transformation. Commands of the application software will be stressed along with file management and plotting. Prerequisite: ETD 2340. Lab fee \$30.00.
- ETD 2568C CAD - Landscape (O) 3 credits**  
This is a course using EaglePoint LANDCADD and AutoCAD. This course focuses on using these programs in landscape planning and design with emphasis on proper plant materials, relationship to site amenities, creating a 3D visualization and working with material take-off/cost estimates. Prerequisite: ETD 1340.
- ETD 2930 Special Topics in Drafting (O) 1 - 3 credits**  
This course teaches computer-aided drafting topics of current interest. Main areas of study include technical updates of CAD software along with exploration of newly developed CAD software specific to specialized engineering disciplines. Prerequisite: ETD 2340.

**ETI 1091 Introduction to Emerging Technologies (O) 3 credits**

This course teaches how to use emerging technologies for learning in the contemporary workplace. The course explores the use of wireless technologies, electronic portfolios, e-books, communications software, Web-based instruction, blended learning environments, voice-over IP technology, voice recognition software, SmartBoards, collaboration tools, virtual spaces, and other relevant technologies.

**ETI 2110 Introduction to Quality Control (O) 3 credits**

This course teaches the role of quality in an industrial and manufacturing environment. Topics include the use of quality management techniques and quality philosophies, process development, quality evaluation, approaches for continuous operations, methods of quality control, and the International Organization for Standardization (ISO) series of standards. The course integrates the concepts, principles, and techniques of mechanical measurement with the use of various types of instruments including micrometers, verniers, calipers, gauges, and electronic types of measuring equipment including 3D and optical equipment.

**GIS 1931 Orientation to GIS Applications (O) ½ - 3 credits**

This course teaches overall concepts, program orientation, and basic instructions in the various commands, methods, and techniques of application-based Geographic Information Systems (GIS) using ESRI ArcView as a base for instruction. Software operations are stressed and the student completes a series of tutorials, exercises, and projects.

**GIS 1060 GIS with ArcView (O) 3 credits**

This course focuses on definition, practical implementation, and the uses of Geographic Information Systems (GIS) by utilizing ESRI's (Environmental Systems Research Institute) ArcView software. The schedule offers an awareness by viewing, analyzing, and producing maps based on various GIS spatial and database sets.

**GIS 1041 Introduction to GIS and GPS Applications (O) 3 credits**

This course teaches the basic concepts of geographic information systems (GIS) and global positioning systems (GPS), related software program orientation, and basic procedures in the techniques of these applications. Practical experience in local projects related to agriculture, civil engineering, Everglades Restoration, and government operations are highlighted. The students complete a series of tutorials, exercises, and projects. Prerequisite: GIS 1060.

**GIS 2500 GIS and Business Planning (O) 3 credits**

This is an advanced course using ArcCAD and AutoCAD. This course focuses on using these programs in business planning with emphasis on strategic concepts, sales analysis, territory design, location analysis, route, sales call, planning, and thematic map presentations. Prerequisite: GIS 1041.

**GRA 2161 2D Digital Animation (O) 3 credits**

This course teaches the Adobe After Effects software as graphics animation software. Covering the creation of motion graphics, this course provides the core 2D and 3D tools for compositing, animation, and effects that motion-graphics professionals, web designers, and video professionals need. Fundamentals in the design of composited layers are combined with sophisticated visuals and audio effects for the animation. Students are also introduced to the use of assets created in object-oriented and digital imagery software such as Adobe PhotoShop, Illustrator, Premiere and AutoCAD. Prerequisite: DIG 1115, GRA 1151.

**GRA 2160 Adobe Animation I – Live Motion (O) 3 credits**

This course teaches Adobe LiveMotion and GoLive as graphics animation software. Covering the creation of motion graphics, this course combines digital assets for the posting of presentational images in multimedia projects and the Internet. Fundamentals in the design of animated graphics with sound in addition to editing techniques in object oriented and digital imagery software's like Adobe PhotoShop, Illustrator, and AutoCAD 2000i are seamlessly integrated into single interactive compositions. Prerequisite: DIG 1115, GRA 1151.

- GIS 2080 AutoCAD, ADE, and MAP (O) 3 credits**  
This is an advanced course using AutoCAD with the MAP (GIS) Module and Autodesk's Advanced Drawing Extension (ADE) tools. This course focuses on using these additional software programs in the workflow of AutoCAD drawing production with entity data management, digitizing, topology creation, path and flood traces, map clean-up, and thematic presentations. Prerequisite: ETD 2340.
- GIS 2350 GIS and Wetlands/Water Resources (O) 3 credits**  
This is an advanced course using ArcCAD and AutoCAD. This course focuses on using these programs in the workflow of water resource management and environmental planning with emphasis on strategic concepts, monitoring and data recording techniques, plan creation and implementation, utility network management, alternative studies, basin modeling, topology creation, and thematic presentations. Prerequisite: GIS 1041.
- ETI 1634 Introduction to Industrial Design (O) 3 credits**  
This course provides an overview of the nature and historical evolution of industrial design. Attention is focused on practical ways of achieving the integration of people and technology in work organizations.
- GRA 1206 Typography (O) 3 credits**  
This course teaches typography as a primary tool of all graphic designers. The emphasis of the course is in the elements and anatomy of type and its expressive, technical and visual aspects. This course also teaches typeface, size, leading, line length, headlines, grids, hierarchy and the overall character in developing creative elements. Readability in type is examined in the development of publications – ads, books, brochures, identity systems and posters. Prerequisite: DIG 1000.
- GIS 2410 GIS and Land Planning (O) 3 credits**  
This is an advanced course using ArcCAD and AutoCAD. This course focuses on using these programs in the workflow of land planning with emphasis on strategic and environmental planning, land use monitoring, plan creation and implementation, utility network management, and alternative studies with entity data management, topology creation, and thematic presentations. Prerequisite: GIS 1041.
- GRA 2170 Introduction to Advertising Design and Graphics (O) 3 credits**  
This course teaches the conceptual skills to create advertisements and related graphics. A historical perspective covers the evolution of advertising trends, past and present. The primary focus is on designing within specifications for print - trim size, live area, and bleed size for designing advertisements for magazines. Subjects covered include creative headline design, typographic style, visual content in photography, logo placement, color schemes, formatting, grid system organization, innovative communication design in the selection of paper weight and style, ink (PMS System) varnishes, coating, die-cuts, and embossments. Continuity and composition are the basic components that students explore in their concepts. Prerequisite: DIG 1000, DIG 1115.
- GRA 2714 Digital Video Production 2 (O) 3 credits**  
This course teaches the advanced techniques in Digital Video Production and shows how to discard the traditional approaches and begin to mix and match the different stages of production to take advantage of DV technologies. Prerequisite: DIG 2030.
- PGY 1800 Principles of Digital Photography (O) 3 credits**  
This course teaches digital photography techniques and theory, including imaging software, camera types, and their application to contemporary photography work. Students explore current issues and trends relative to digital photography and develop an appreciation for digital imaging as a visual art form. An understanding of perception, structure and composition is the primary goal in each project. Students demonstrate their skills in the creation and manipulation of digital photographic images from visual execution to digital darkroom.

**GRA 2130 Presentation Technology (O) 3 credits**

This course teaches techniques to enhance presentations using digital video, motion graphics, audio editing, and content development. Audio, video, and current cutting-edge technologies are explored. Course topics include targeting presentations, creating visual aids, using audio and video equipment, and desktop presentation software/hardware. Students develop a business, education, or corporate communications project featuring an opening impact visual, informational content, and closing that is consistent with the message. The emphasis is on using the most effective media to fit the corresponding imagery. Video, animation, typographic effects, backgrounds, and effective sound and composition are some of the elements that students consider in the development of their presentations. Prerequisite: DIG 1000, DIG 1115.

**GRA 2124 Publication Production & Prepress (O) 3 credits**

This course teaches advanced concepts in electronic publishing and digital prepress operations using image creation, editing software, and page layout applications to prepare files for print, web, and electronic media. Traditional production techniques and usage are studied including field trips to local graphic arts production and printing facilities. Prerequisite: DIG 1115, GRA 1112.

**EGS P120 Fundamentals of Geometric Dimensioning (O) 15 hours**

This course teaches the use of Geometric Dimensioning and Tolerancing (GD&T) and its application to the manufacturing environment. Being more precise than typical coordinate dimensioning, GD&T provides an international standard and symbology for the correct production of parts. An extensive set of exercises is completed to increase the understanding of GD&T. Prerequisite: EGS 1110.

**ECONOMICS****ECO 2000 Introduction to Economics (P) 3 credits**

This course examines both microeconomic and macroeconomic principles and problems. Students are introduced to the structure, functioning, and stabilization of a market-directed capitalistic economy. The microeconomic topics include supply, demand, and elasticity; and the profit maximizing behavior of the firm under the market structures of pure competition and pure monopoly. The principles underlying international trade, economic growth, and labor markets are also presented. The macroeconomic topics covered are the Great Depression, business cycle theory, Keynesian Revolution, money and banking, counter-cyclical monetary and fiscal policy, and the national debt. ECO 2000 does not satisfy the university requirement for either ECO 2013 or ECO 2023.

**ECO 2013 Principles of Economics Macro (P) 3 credits**

This course focuses on the study of macroeconomics including, but not limited to, national income accounting, consumption, saving and investment, government spending as it affects economic activity and as it influences money and banking, problems of inflation and unemployment, international trade and its impact on domestic activity. Prerequisite: Student must score into college-level English and reading on the placement test.

**ECO 2023 Principles of Economics Micro (P) 3 credits**

This course provides an introduction to economic theory and the fundamentals of economic analysis. The course includes emphasis on the study of microeconomics: market structure, price determination, factors of production, distribution of income and effects of monopoly and oligopoly on markets. Prerequisite: Student must score into college-level English and reading on the placement test.

**ECO 1710 Introduction to International Economics (P) 3 credits**

This course explores the field of economics through discussion, observation and research in the areas of international trade policy, and international business and finance. Special emphasis is placed on topical problems, current globalization issues and economic trends.

**EDUCATION**

- EDF 2005 Introduction to the Teaching Profession (P)** 3 credits  
This course consists of a survey of the historical, sociological, and philosophical foundations of education and an orientation to professional education which includes the Code of Ethics of the teaching profession. In addition to class lectures, 15 hours of field experience in an elementary, middle, or secondary school is required. Prerequisite: Student must score into college-level English on placement test. Additional fee for background check is required by school district.
- EDF 2090 Current Issues in Education (P)** ½ - 5 credits  
This course provides the teacher and prospective teacher with a broad professional perspective through the exploration of selected topics in the areas of education in reference to philosophical and social issues. Current realities confronting educators are explored. Each of these areas make a unique contribution in the preparation and reaffirmation of teachers as professionals.
- EDF 2085 Intro to Diversity & Exceptionalities for Educators (P)** 3 credits  
This course explores the multiple facets of diversity as represented in an educational setting. It emphasizes the value of diversity and commonality and focuses on valuing diversity in the classroom and the elimination of barriers to cultural understanding. In addition to class lecture, 15 hours of field experience in appropriately diverse settings will be required. Prerequisite: Student must score into college-level English on placement test.
- EDF 1081 Introduction to Multicultural Education (P)** ½ - 3 credits  
This course teaches the terms, concepts, elements, purposes, and objectives of multicultural education.
- EDG 1211 Curriculum Design/Development (P)** ½ - 3 credits  
This course teaches students how to identify curriculum design appropriate for integration activities. Students participate in planning short and long-term projects which identify team building, cooperative learning, and higher-order thinking skills into integrated curriculum.
- EDF 2930 Special Topics in Education (P)** ½ - 6 credits  
This course is an introduction to cooperative learning strategies and includes curriculum design and development, alternative assessment techniques, cooperative learning strategies, and classroom management.
- EDF 2020 Effective Classroom Management (P)** ½ - 3 credits  
This course teaches specific classroom strategies for managing classroom behavior in proactive and positive ways.
- EDG 1011 Educational Professional Skills Development (P)** ½ - 3 credits  
This course teaches, through various educational topics, the importance of the role of the educator, his knowledge, his skills and his attitude in improving. Professional development activities will vary based upon current issues and initiatives in education.
- EDG 1932 Enhancing Teacher Effectiveness (P)** ½ - 5 credits  
This course provides educators an opportunity to enhance teaching techniques that promote student success and improve teacher effectiveness. Prerequisite: permission of instructor.
- EDG 2301 General Teaching Skills (P)** ½ - 3 credits  
This course teaches topics in generic teaching skills, techniques, and strategies basic to all grade levels and subject matter areas specific to the group enrolled. Prerequisite: permission of instructor.
- EEX 1001 ESE Review Course (P)** 1 credit  
This course reviews Exceptional Student Education (ESE) subject area content information for the preparation of the Florida Teacher Certification Examination for Exceptional Student Education K-12.

- EME 1310 Media in Instruction (P) 3 credits**  
This course teaches skills to assist educators in developing resources to integrate media into instruction. Prerequisite: permission of instructor.
- EDP 2002 Introduction to Educational Psychology (P) 3 credits**  
This course teaches psychology as it is applied to teaching and learning. This course focuses on the investigation of the characteristics of physical, social, cultural, emotional, and intellectual differences among learners. Major topics in the study of the teaching/learning process include learning and problem-solving, motivation, and assessment. Prerequisite/ Corequisite: ENC 1101.
- EME 2040 Introduction to Technology for Educators (P) 3 credits**  
This course provides applied instruction in the use of technology in an educational setting. Media includes computers, information technology, presentation technology, and educational software. Software includes Windows based (or Equivalent) word processing and use of the Internet. Ethical, legal, and social issues regarding educational technology are examined. Prerequisite: Student must score into college-level English on placement test.
- SCE 1931 Special Topics in Science for Educators (P) ½ - 3 credits**  
This course teaches through lecture, clinical, and field experiences pre-service and classroom teachers the understanding and application of concepts of various classroom science curriculum with an emphasis on the Sunshine State Standards as it applies to specific grade levels and topics.
- EME 1501 Distance Learning Workshop (P) 1 - 3 credits**  
In this course participants learn syllabus design, visual elements of communication, presentation techniques, and lesson planning related to teaching through distance learning.
- EDF 3214 Human Development and Learning (U) 3 credits**  
This course teaches learning theories as they apply to student development, learning styles, learning ability as well as disabilities. Students explore varying ideologies relative to intelligence and intellectual assessment. Additionally, students are required to arrange visits totaling at least 15 hours to area schools to observe teaching and learning styles, the interactions between student and teacher, and intervention techniques. Prerequisite: EDF 2005, EDF 2085, EME 2040 or consent of the department. Additional fee for background check is required by school district.
- EDG 3343 Instructional Strategies (U) 3 credits**  
This course teaches an overview of instructional models and strategies. Emphasis is placed on principles of State standards, instructional methods, lesson planning, and instruction. Students develop knowledge of instructional models and lesson plan construction for effective implementation including the diverse student populations. Pre/Corequisite: EDF 2005, EDF 2085, EME 2040, EDF 3214. Corequisite: Middle Grades: MAE 4941 or SCE 4942 / Secondary MAE 3940 or SCE 3940.
- EDG 4410 Classroom Management and Communication (U) 3 credits**  
This course provides basic skills and knowledge for creating a learning environment that encourages positive social interaction and effective communication among members of the learning community. The course emphasizes attitudes, language patterns, values and behaviors. The course also includes methods and strategies for consulting with other school professionals and parents. Prerequisite: EDF 3214, EME 2040, EDF 2085, EDF 2005.
- EEX 4221 Educational Assessment of Exceptional Students (U) 3 credits**  
This course teaches the theory and practice of informal and formal assessment of behavior and/or learning problems. Practice with evaluation instruments and curriculum based assessment strategies are key components of the course. Use of assessment information in designing academic K-12 curriculum plans is also a component of this course. Pre/Corequisite: EDF 2005, EDF 2085, EME 2040, EEX 2010.



- EDG 4376 Integrating Language Arts and Social Science (U)** **3 credits**  
 This course provides an overview of current methods of instruction in language arts and social sciences, with emphasis on the writing process, and strategies to make the curriculum accessible to diverse students including those with various disabilities and LEP (Limited English Proficient) students. Practical experience in curriculum, instruction and assessment are provided. This course addresses Sunshine State Standards, educator accomplished practices and pedagogy pertinent to specific disciplines required for certification, and the council for exceptional children's content standards for all beginning special education teachers. Minimum 20 hours structured field experience required. Prerequisite: EDF 3214, EDF 2005, EME 2040, EDF 2085, EEX 2010. Pre/corequisite: RED 3009.
- EDG 4377C Integrating Mathematics and Science (U)** **3 credits**  
 This course focuses on specialized methods for the creation of instructional curricula and appropriate pedagogic methods for students with disabilities in grades K-12. The development of curricula and the use of instructional approaches that correspond to the capabilities and styles of the various learners are emphasized. Minimum of 20 hours structured field experience required. Prerequisite: EDF 3214, EEX 2010, EEX 4221. Pre/corequisite: EDF 4430, EDG 4410, EEX 4601.
- EEX 4940 Student Teaching/Exceptional Student Internship and Seminar (U)** **12 credits**  
 This course teaches pre-service teachers how to demonstrate professional competencies during one semester of full-day internship in a public school. Prerequisite: senior level status, all program requirements must be met, and permission of clinical education coordinator.
- EEX 4601 Effective Behavioral Interventions and Practices in Exceptional Students (U)** **3 credits**  
 This course teaches familiarization of students with the educational management of exceptional learners. Emphasis is on behavior practices and consultation skills leading to students managing their own behavior. Strategies to create and maintain safe, healthy environments for learning in exceptional and inclusive classroom are presented. Prerequisite: EDF 3214, EEX 2010.
- EDF 4430 Measurement, Evaluation and Assessment (U)** **3 credits**  
 This course teaches basic concepts in educational measurement utilizing measurement in instruction, construction of teacher-made tests and other classroom assessments, portfolio and performance assessment, and interpretation of standardized test scores. Pre/Corequisite: EDF 2005, EDF 2085, EME 2040.
- EDM 3001 Introduction to Middle School (U)** **3 credits**  
 This course provides an introduction to the modern middle school, its history, and purpose. It includes the philosophy and practice of the ideal middle school. The roles of middle school teachers and teams are highlighted. An additional 20 hours of clinical experience, to be completed in the IRSC tutoring labs on the Main Campus, is a required part of the course.
- EEX 4264 Curriculum and Instruction for Students with Disabilities K-5 (U)** **3 credits**  
 This course teaches the development of knowledge and skills necessary for special educators to meet the needs of students with disabilities in grades K-5. Students identify the scope and sequence of the elementary general education curriculum including Florida Sunshine State Standards, and local county curriculum guides. Focus is on specialized methods for the creation of instructional methods and strategies for students with disabilities in grades K-5. The development of curricula and the use of instructional approaches that correspond to the capabilities and styles of the various learners are emphasized. A minimum of 20 hours structured field experience is required. Prerequisite: EDF 3214, EEX 2010, EEX 4221. Pre/corequisite: EDF 4430, EDG 4410, EEX 4601.

- EEX 4265 . Curriculum and Instruction for Students with Disabilities 6-12 (U) 3 credits**  
This course teaches the development of knowledge and skills necessary for special educators to meet the needs of students with disabilities in grades 6-12. Students identify the scope and sequence of the general education curriculum including Florida Sunshine State Standards, and local county curriculum guides for students in grades 6-12. Focus is on specialized methods for the creation of instructional methods and strategies for students with disabilities in grades 6-12. The development of curricula and the use of instructional approaches that correspond to the capabilities and styles of the various learners are emphasized. A minimum of 20 hours structured field experience is required. Prerequisite: EDF 3214, EEX 2010, EEX 4221. Pre/corequisite: EDF 4430, EDG 4410, EEX 4601.
- EME 3410 Integrating Technology in the Classroom (U) 3 credits**  
This course teaches the innovative use of computer software and other electronic devices such as graphing calculators. The use and integration of software, electronic spreadsheets, data analysis, and instructional software are studied from a problem solving perspective. This course addresses specific Sunshine State Standards, subject matter competencies, and pedagogy pertinent to the discipline and is required for certification. Prerequisite: EME 2040 or consent of the department.
- EEX 3103 Survey of Normal/Abnormal Language and Speech (U) 1 credit**  
This course teaches an overview of major communication disorders and supportive strategies as well as normal language and speech development for classroom teachers. Pre/Corequisite: EEX 2010.
- EEX 4094 Educating Students with Autism (U) 3 credits**  
This course provides class participants with an overview of characteristics, etiology, and prevalence of autism spectrum disorders. Additionally, this course supplies participants with the knowledge and skills necessary to support the learning of children with autism spectrum disorders including instructional strategies, classroom organization, and teaming with families and professionals. Prerequisite: Administrative approval required.
- EEX 4760 Assistive Technology for Students with Autism (U) 3 credits**  
This course is a broad introduction to educational and assistive technology (AT) used for instruction of students with low incidence disabilities with a particular emphasis on students with autism. It is designed to allow special educators and others to analyze and apply research-based strategies in the application of AT in classrooms, schools, and school districts. Students critically examine strategies for creating supportive environments for students to effectively use high and low tech AT devices, including those for augmentative/alternative communication systems. Particular attention is given to issues related to AT assessment, implementation, and prevention of AT discontinuance in collaboration with other professionals and family members. Prerequisite: Administrative approval required.
- EEX 4603 Positive Behavior Support (U) 3 credits**  
This course provides class participants with the knowledge and skills necessary to develop, implement, and evaluate the impact of positive behavior support. Emphasis is placed on understanding the communicative function of challenging behaviors, the teaching of new skills that make the challenging behavior unnecessary for the learner, and the prevention of the reoccurrence of challenging behaviors. The course includes functional behavior assessment and positive behavior support as foundations of appropriate behavioral intervention in keeping with the Individuals with Disabilities Education Act. Prerequisite: Administrative approval required.
- EDF 3933 Special Topics in Education (U) 3 credits**  
This course reinforces and strengthens the development and implementation of cooperative learning strategies and includes curriculum design and development, and alternative assessment techniques. Prerequisite: Minimum of A.A. Degree.

- EEX 4232 Identification and Assessment of Ind. with Autism (U)** **3 credits**  
This course provides class participants with the knowledge and skills necessary to critically analyze the processes in place to identify students with low incidence disabilities. The influence of such disabilities of development and learning in a least restrictive environment is explored. Inherent in this is the complexity of learning needs that this group of students experience, and for many students, the co-morbidity of different developmental disabilities along with the influences of societal and environmental issues. This course also provides participants with the ability to appropriately assess the skills and abilities of students with severe disabilities in a way that assessment results can be translated into meaningful educational interventions in a least restrictive environment. Prerequisite: Administrative approval required.
- SCE 3905 Science through Tutoring (U)** **3 credits**  
This course teaches the general science skills needed for successfully tutoring in an academic setting, general methods of tutoring, and the tutoring techniques needed in specific courses. Teacher-tutor seminars, teacher-tutor conferences, and formal instruction supplement the extensive tutoring experiences. Prerequisite: EDF 3214, nine (9) hours of science content courses, or permission of instructor.
- SCE 4943 Seminar in Science Teaching (U)** **3 credits**  
This course teaches how to design instructional strategies, planning techniques, evaluation procedures and class management skills for science courses in the secondary school environment. Prerequisite: senior level status, all program requirements must be met, and permission of clinical education coordinator. Corequisite: SCE 4941.
- SCE 3940 Teaching Middle School Science Practicum (U)** **1 credit**  
This course provides the opportunities to present interactive curriculum projects to middle school students in local area school districts. Students spend a minimum of 30 school-based hours in the middle school classroom. Project presentations are coordinated with in-service middle school teachers and their curriculum schedules and needs. This course addresses specific Sunshine State Standards, subject matter competencies, and pedagogy pertinent to the discipline and required for certification. Students who are majoring in science education and who will be obtaining teacher certification in grades 5-9 or 6-12 are eligible for this class. Prerequisite: EDF 2005, EDF 2085, EME 2040, EDF 3214, nine (9) hours of science content courses. Corequisite: Middle Grades SCE 3360 or Secondary Biology EDG 3343.
- SCE 3360 Middle School/Secondary Science Methods (U)** **3 credits**  
This course teaches principles of effective curriculum design and assessment. It addresses the required instructional methods, techniques, strategies, and resources for effective science teaching in grades 5-12. This course accompanies the Middle School/Secondary Science Practicum which provides students with opportunities to present their interactive curriculum projects to middle and high school students in local area school districts. This course addresses specific Sunshine State Standards subject matter competencies, and pedagogy pertinent to the discipline required for certification. Prerequisite: EDF 2005, EDF 2085, EDG 3343, EME 2040, EDF 3214, Middle Grades SCE 4942, Secondary Biology SCE 3940, nine (9) hours of science content courses. Corequisite: Middle Grades SCE 3940 or Secondary Biology SCE 4942.
- SCE 4941 Student Teaching in Science (U)** **10 credits**  
This course teaches a teacher candidate to demonstrate pre-professional competencies during a 12 week, full-time internship in a public school approved by the department. Contact hours: a minimum of 35 hours per week for 12 weeks. Prerequisite: senior level status, all program requirements must be met, and permission of clinical education coordinator. Corequisite: SCE 4943.

- SCE 4942 Teaching Secondary Science Practicum (U)** **1 credit**  
This course teaches how to present interactive curriculum projects to secondary school students in local area school districts. Students spend a minimum of 30 school-based hours in the secondary school classroom. Project presentations are coordinated with in-service secondary school teachers and their curriculum schedules and needs. This course addresses specific Sunshine State Standards, subject matter competencies, and pedagogy pertinent to the discipline and required for certification. Students who are majoring in science education and who will be obtaining teacher certification in grades 5-9 or 6-12 are eligible. Prerequisite: EDF 2005, EDF 2085, EME 2040, EDF 3214; Secondary Biology EDG 3343, nine (9) hours of science content courses. Corequisite: Middle Grades EDF 3343 or Secondary Biology SCE 3360.
- TSL 3080 ESOL Issues: Principles and Practices (U)** **3 credits**  
This course teaches an introduction to the issues, principles, and practices of teaching English to speakers of other languages. It prepares classroom teachers to provide linguistically and culturally appropriate instruction and assessment for Limited English Proficient (LEP) students. It provides the foundations of knowledge necessary to meet the instructional needs of linguistically and culturally diverse students.
- TSL 3520C Cultural Dimensions of ESOL (U)** **3 credits**  
This course teaches an overview of topics related to cross-cultural communication by introducing students to the cultures of different U.S. language groups with a focus on language groups found in Florida. Students develop an awareness and understanding of the complexities surrounding language, culture, and learning in order to meet the needs of linguistically and culturally diverse learners. This course is required for Florida Add-On ESOL Endorsement.
- TSL 3251 Applied Linguistics (U)** **3 credits**  
This course teaches an introduction to the analysis and classroom application of Linguistic theories in the field of second language acquisition for LEP (Limited English Proficient) students. This course is required for Florida Add-On ESOL Endorsement.
- TSL 4140C TESOL Curriculum and Materials (U)** **3 credits**  
This course introduces the knowledge and application of TESOL theories, principles and current research in the analysis, planning, design and evaluation of curriculum and materials appropriate for LEP (Limited English Proficient) students. This course is required for Florida Add-On ESOL Endorsement.
- TSL 4340C TESOL Methods (U)** **3 credits**  
This course introduces the knowledge and application of TESOL theories, principles, and current research in the understanding and use of instructional techniques and methodologies appropriate for teaching LEP (Limited English Proficient) students. Minimum of 20 hours of structured field experience required. This course is required for Florida Add-On ESOL Endorsement. Prerequisite: TSL 3251, TSL 4140C.
- TSL 4441C ESOL Testing and Evaluation (U)** **1 credit**  
This course introduces the knowledge and application of TESOL theories, principles, and current research in the selection, development, and adaptation of assessment instruments/evaluation materials appropriate for LEP (Limited English Proficient) students, including the study of standardized ESOL instruments. This course is required for Florida Add-On ESOL Endorsement.

## EDUCATOR PREPARATION INSTITUTE

The Educator Preparation Institute provides a competency-based program that offers individuals with a non-education Baccalaureate Degree preparation to meet Florida Educator Accomplished Practices. Participants who successfully meet all competencies included in the program and present passing scores on all required portions of the Florida Teacher Certification Exam will be awarded a Certification of Completion. The program components designated by an EPI prefix are not transferable to an upper division institution and do not count toward any degree. Limited access and permission required.

- EPI 0001 Classroom Management** **3 credits**  
 This course teaches how to maintain a classroom. Topics include record keeping, classroom management, school safety, Sunshine State Standards into curriculum, development of lesson plans, parent conferences, assessment techniques, implications of FCAT and other standardized tests, professional ethics, and school law and the teacher. Prerequisite: minimum of a Baccalaureate Degree.
- EPI 0002 Instructional Strategies** **3 credits**  
 This course teaches 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. Prerequisite: minimum of a Baccalaureate Degree.
- EPI 0003 Technology** **3 credits**  
 This course teaches the use of technology as an integral part of the teaching and learning process. Instruction is provided in commonly used software suites and on the Internet. Prerequisite: minimum of a Baccalaureate Degree.
- EPI 0004 The Teaching and Learning Process** **3 credits**  
 This course teaches a foundation in various learning theories as applied in the instructional process. Topics include learning theories, motivation and persistence, intelligence, exceptionalities, standardized testing, critical thinking, multiple intelligences, and second language acquisition. Prerequisite: minimum of a Baccalaureate Degree.
- EPI 0009 Foundations of Language and Cognition** **3 credits**  
 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.
- EPI 0010 Foundations of Research-Based Practice** **3 credits**  
 This course teaches language structure, function and cognition of phonemic awareness, phonics, fluency, vocabulary, and comprehension; and is grounded in scientifically-based research. Prerequisite: minimum of a Baccalaureate Degree.
- EPI 0011 Foundations of Assessment** **3 credits**  
 This course teaches the role of assessments in guiding reading instruction and instructional decision-making for reading progress of struggling readers.
- EPI 0020 Professional Foundations** **2 credits**  
 This course teaches the foundation for becoming a productive member of the teaching profession. Topics include history and philosophy of education, school governance, school finance, school law, ethics, purpose of schools, and continuing professional development. Prerequisite: minimum of a Baccalaureate Degree. Corequisite: EPI 0940.
- EPI 0030 Diversity** **2 credits**  
 This course teaches the variety of backgrounds and cultures that may be found in a typical classroom and how social class, religion, language, gender differences, culture and ethnicity, physical differences, and prejudices have an effect on how a student learns. Prerequisite: minimum of a Baccalaureate Degree. Corequisite: EPI 0945.

**EPI 0940 Field Experience****1 credit**

This course provides a 15 hour field experience segment in a public, charter, or accredited private school for the EPI 0020 module. Prerequisite: minimum of a Baccalaureate Degree. Corequisite: EPI 0020.

**EPI 0945 Field Experience****1 credit**

This course provides a 15 hour field experience segment in a public, charter, or accredited private school for the EPI 0030 module. Prerequisite: minimum of a Baccalaureate Degree. Corequisite: EPI 0030.

**ELECTRICAL POWER TECHNOLOGY****ETG 2210 Radiation Fundamentals (O)****3 credits**

This course teaches the fundamentals of radioactivity, radioisotopes and radioisotope properties (use, decay mode, emission, interaction, shielding, half-life), including the systems that produce isotopes (reactors and accelerators). Students find and determine pertinent properties of radioisotopes and how these properties affect their usage and control.

**ETG 2211 Radiation Monitoring (O)****3 credits**

This course teaches how to safely use radiation detection instrumentation and their proper use in monitoring radiation and dose. Students select appropriate monitoring instrumentation for given radionuclides(s) and/or workplace condition, ensure that the instrument is in proper working order and use it to perform material and equipment surveys, workplace surveys, and environmental monitoring.

**ETG 2212 Radiation Dosimetry (O)****3 credits**

This course teaches radiation biology, radiation effects on simple chemical systems, biological molecules, cells, organisms and humans. Among other learning objectives, students cover stochastic vs. deterministic effects, units of exposure, dose and dose equivalent, external dosimetry, internal dosimetry, control of external and internal exposure, detector and instrumentation systems for measuring dose.

**ETG 2215 Radiological Safety and Response (O)****3 credits**

This course develops conceptual understanding and skills for ensuring and maintaining safety in the use of radioactive materials, with an emphasis on implementing ALARA principles. Concepts of time, distance and shielding, and protective clothing to minimize dose exposure in a variety of situations (both routine and off-normal) within radiological environments are covered.

**ETI 2219 Radiation Protection/Capstone Project (O)****3 credits**

This course teaches radiation protection problems embedded in different radiation contexts, the majority of which are nuclear power reactor-based. Participants solve problems related to providing radiological coverage of jobs and high-risk and low-risk activities such as outages, planning for protection from hazardous radiation, monitoring of activities in radioactive zones, and responding to emergencies. Prerequisite: ETG 2211, ETG 2212, ETG 2315.

**ETG 2941 Professional Internship (O)****2 credits**

This course is an internship for the Electrical Power Technology program students. Students are assigned to a corporation that has an on-the-job training program for future technicians and work full or part-time for an entire semester under the guidance and supervision of experienced engineering professionals.

**ETG 2942 Professional Internship for Radiation Protection (O)****5 credits**

This course is an internship for the Radiation Protection option of the Electrical Power Technology program and provides supervised work experience with an industrial partner. During this internship students are assigned to a nuclear power plant located in the lower 48 states. Student-interns work full-time for an entire semester under the supervision of experienced radiation protection professionals. Prerequisite: permission of instructor.

**ELECTRONIC ENGINEERING TECHNOLOGY**

- CET 1112C Logic Circuits I (O)** 3 credits  
This course teaches the logic circuitry used in digital electronic systems. Topics covered are number systems, logic gates, Boolean algebra, Karnaugh maps, DeMorgan's Theorems, IC specifications, interfacing, encoders, decoders, and flip-flops.
- CET 1113C Logic Circuits II (O)** 3 credits  
This course is a continuation of Logic Circuits I. Topics covered are counters, registers, arithmetic circuits, memories, digital systems, digital to analog conversion, and analog to digital conversion.
- CET 1178 A+ Certification Training I (O)** 3 credits  
This course prepares the student for a career in the personal computer industry. It also helps prepare the student for the A+ Certification examination, which measures the competencies required by a service technician with six months of on-the-job experience. Students learn how to install, configure, upgrade, troubleshoot, and repair microcomputer hardware. Prerequisite: student must score into college-level reading in placement test.
- CET 1179C A+ Certification Training II (O)** 3 credits  
This course is a continuation of A+ Certification Training I.
- EET 1724C Electronic Design Software Tools (O)** 3 credits  
This course teaches basic schematic capture and circuit simulation. Topics covered include: flat designs, hierarchical designs, creating new parts, title blocks, bill of materials report, ERC report, netlists, analog simulation, digital and mixed mode simulation. Lab fee \$10.00.
- CET 1461C Computer-Aided Engineering (O)** 3 credits  
This course teaches the basics of computer-aided engineering (CAE). An array of computer programs is introduced to demonstrate the use of the computer in automating the engineering process. An electronic circuit simulation program is used to build and simulate virtual circuits. A word processing program along with an electronic spreadsheet is used to produce professional technical reports. An introduction to basic computer data structures and algorithms is also included. Corequisite: EET 1015C. Lab fee \$10.00.
- CET 1588 Network + Certification (O)** 3 credits  
This course teaches a wide range of vendor-neutral networking technologies and skills such as configuring, installing, troubleshooting and maintaining network interface cards, hubs, routers, switches, servers, RAID technologies and clustering technologies. The course focuses on necessary management skills including managing a support/help desk center, supporting end users, and working in conjunction with management and other technicians. Additional topics include developing a documentation system and Standard Operating Procedures (SOP). This course prepares the student for the CompTIA Network + Industry Certification Exam. Prerequisite: CET 1178.
- CET 2123C Microprocessors I** 3 credits  
In this course the students engineer and build an electronic project. The students simulate an electronic corporation which engineers and builds electronic systems according to customer specifications. The instructor divides the students into groups and with guidance and support the product is engineered and delivered to the customer. Customers can be different IRSC departments or a non-profit community organization. Prerequisite: CET 1113C. Lab fee \$10.00.
- CET 2127C Microprocessors II (O)** 3 credits  
This course continues the study of microprocessors and includes interfacing concepts with emphasis on the peripheral interface adapter (PIA), digital to analog, and analog to digital converters. Prerequisite: CET 2123C. Lab fee \$10.00.

- CET 2891 Wireless Network Security Certification (O)** **3 credits**  
This course prepares students to secure wireless networks and protect valuable data from intruders. The following subjects are covered: intrusion tools and techniques, detection systems, WPA/WPA2/802.11i security, enterprise wireless gateways, encryption gateways, secure wireless bridging, and wireless VPN routers. This course prepares student for the CompTIA wireless certification exam. Prerequisite: CET 1854.
- EET 1015C DC Circuits** **3 credits**  
This course teaches the fundamental theories of DC circuits with emphasis on circuit operation and troubleshooting. Topics covered include: electronic components, Ohm's law, Power law, series DC circuits, parallel DC circuits, electromagnetic devices and DC test instruments. Prerequisite: student must score into college-level reading and math on placement test. Lab fee \$10.00.
- EET 1025C AC Circuits** **3 credits**  
This course teaches the fundamental theories of AC circuits with emphasis on circuit operation and troubleshooting. Topics covered include: AC voltage theory, inductive and capacitive reactance, transformers, series RCL circuits, parallel RCL circuits, resonance, capacitor and inductor pulse response. Lab fee \$10.00.
- EET 2515C Motors and Generators (O)** **3 credits**  
This course teaches industrial equipment maintenance. Students learn how to analyze, troubleshoot, and repair rotating electric machinery with emphasis on industrial applications. Students learn terminology specific to motors, generators, and transformers; electromechanical device theory; circuits connecting electromechanical devices to voltage sources and loads; and how to apply mathematical analysis to determine quantitative circuit functioning in terms of voltage, current, and power.
- EET 1180C Troubleshooting and Repair Techniques (O)** **3 credits**  
This course teaches proper troubleshooting and repair techniques for a variety of electronic equipment such as amplifier systems, equalizers, mixers, power inverters, and other common electronic systems. Special emphasis is placed on safety and correct use of electronic testing instruments. Prerequisite: EET 2141C.
- EET 1215C Introduction to Electronics (O)** **3 credits**  
This course teaches the basic manual techniques used in the field of electronic engineering technology. Topics covered are electrostatic discharge (ESD), high reliability soldering, prototyping, and the use of the volt-ohm-amp meter. Lab fee \$10.00.
- EET 1580 Power Plant Science (O)** **3 credits**  
This course teaches the fundamental techniques in the study of nuclear plant science. Coursework covers the broad spectrum of the SAFE program which encompasses basic chemistry, mathematics, physics, and communication. Additionally, the student is provided with radiation control access training (RCAT) required for unescorted access in the nuclear plant site's radiation areas.
- EET 2141C Electronic Devices I (O)** **3 credits**  
This course teaches technologies supporting semiconductor fabrication, junction diodes, power supply circuits, transistors, small and large signal amplifiers. Prerequisite: EET 1025C. Lab fee \$10.00.
- EET 2142C Electronic Devices II (O)** **3 credits**  
This course teaches how operational amplifiers, analog integrated circuits, oscillators, control devices, and regulated power supplies are designed and work. Prerequisite: EET 1025C. Lab fee \$10.00.
- EST 2424 Biomedical Electronics (O)** **3 credits**  
This course teaches basic concepts of biomedical equipment operation, basic troubleshooting techniques, and the use of appropriate test equipment.



- EET 2325C Telecommunication Circuits I (O)** 3 credits  
This course teaches the principles of electronic communication, modulation and demodulation methods, radio transmitter and receiver theory and circuits, and multiplexing and demultiplexing schemes. Prerequisite: EET 2141C. Lab fee \$10.00.
- EET 2335C Telecommunication Circuits II (O)** 3 credits  
This course teaches technologies supporting antennas, transmission lines, wave propagation, microwave communication, waveguides, fiber optics and cellular telephones. Prerequisite: EET 2141C. Lab fee \$10.00.
- EET 2527C Motor Starters, Controllers, and Breakers (O)** 3 credits  
This course teaches industrial equipment maintenance, covering AC and DC power distribution in the plant. Students study operating principles, troubleshooting, repair and maintenance of switch gear, motor control centers, breaker panel power, control, and instrument cable, raceways, protective devices and grounding as related to the generating station. Hands-on laboratory exercises reinforce each major concept studied.
- EST 2520 Process Management Fundamentals (O)** 3 credits  
This course teaches the typical measurements made in industrial measurement and control loops. The basic physics involved in the measurements is covered, as well as the common types of sensors used in industry. Pressure, temperature, flow, level, and analytical measurement theory is emphasized.
- EST 2215 Geometrical Optics (O)** 3 credits  
This course teaches the theory of light as geometric rays, and pertinent applications of the laws of reflection and refraction from the mathematical, graphical, and experimental points of view. Lens and mirror aberrations and the study of thick lenses are also part of this course.
- EET 2547C Transformers and Power Distribution (O)** 3 credits  
This course teaches industrial equipment maintenance. Students acquire an understanding of the components and devices used to distribute power, and how to protect major elements involved in power distribution. Students learn about the uses and maintenance of fuses, circuit breakers, reclosures, and relay coordination; how to protect against lightning and other abnormal conditions; and the protection of transformers, motors, and generators.
- EET 2930 Special Topics in Electronic Engineering (O)** ½ - 3 credits  
This course teaches specific competencies related to circuit analysis, low frequency analog electronics, RF circuits, digital, microprocessors, microcontrollers, computer architecture, and networking. The content of the course is customized to meet the special technical training needs of electronic engineering professionals.
- EST 1572 Power Plant Fundamentals (O)** 3 credits  
This course teaches the theory of operation of power plants. Additionally, the student is presented with instruction in industrial safety and general administrative procedures for completing routine tasks.
- EST 2230 Laser Technologies (O)** 3 credits  
This course teaches theory and procedures for the safe use of lasers. Pulsed solid-state lasers are the primary example in laboratory exercises. Topics covered in this class include the shape of laser rods, pumping cavities, flashlamps, resonator cavities, power supplies, and cooling systems.
- EST 1931 Special Topics in Manufacturing (O)** ½ - 3 credits  
This course teaches a variety of technical and organizational skills related to the manufacturing industry. Learning outcomes are defined based on training needs of specific industries or student cohorts. Emphasis is placed on industry standards (ISO and others), safety (OSHA and others), tool and equipment use, processes, quality, lean manufacturing, product design, and assembly systems.

**EST 2210 Introduction to Photonics (O)****3 credits**

This course teaches the fundamental principles of optics, electro-optics, lasers, and fiber optics. The technologies covered in this course can be applied in the fields of electronics, instrumentation, telecommunications, and biomedical equipment. This course also addresses the technical training needs of working professionals required to update their skills with current technologies.

**EST 2220 Fiber Optics and Data Communications (O)****3 credits**

This course teaches the technical and business aspects of data communications. It provides comprehensive coverage of technologies used in current data and voice communications along with extensive discussion of emerging technologies such as converged data/voice networks and voice over IP.

**EST 2427 Advanced Biomedical Electronics (O)****3 credits**

This course teaches the application of principles and methods of measurement of biological variables. It places special emphasis on the physiological parameters of the nervous system. Topics covered are biotelemetry, radiology, and electromagnetic compatibility. Prerequisite: EST 2424 is highly recommended or experience in the field.

**EST 2676 Introduction to Robotics (O)****3 credits**

This course teaches the basic principles of industrial electronics, computers, automated equipment, sensors, servo systems, stepper motors, relays and controllers. Students gain practical experience by building and programming a basic robotic system.

**EST 2408 Biomedical Seminar (O)****3 credits**

This course teaches the current concepts and applications in biomedical electronics. Medical professionals, scientists and biomedical engineers are invited to discuss bioengineering topics and share their experiences. Activities also include visits to hospitals and other bio-facilities, during which students become familiar with equipment, processes and operations, as well as with the role of engineers and technologists in bio-industries. MRI (magnetic resonance imaging) EDG (electro cardiogram), EEG (electro encephalogram), and CAT-Scan equipment among others are explored in this seminar.

**EST 2530 Process Control Technology (O)****3 credits**

This course teaches theory and applications in industrial process control loops. Common process loops are developed, the math and physics are covered, and loop tuning methods are used to analyze process response. Process control models are used to show the advantages and disadvantages of the common types of control methodology used for loop tuning.

**EST 2542 Programmable Logic Controllers I (O)****3 credits**

This course teaches the fundamental principles of Programmable Logic Controllers (PLCs), and how they are used to control industrial processes. Topics covered are PLC hardware, number systems and codes, fundamentals of logic, PLC programming, wiring and ladder diagrams, programming timers, and programming counters.

**EST 2544 Programmable Logic Controllers II (O)****3 credits**

This course teaches how to program and set up Programmable Logic Controllers (PLCs). Topics covered are program control instructions, data manipulation instructions, math instructions, sequencer and shift registers, PLC installation and troubleshooting, process control and data acquisition, computer-controlled machines and processes.

**EST 2630 Manufacturing Processes (O)****3 credits**

This course teaches the fundamental principles of the use of computers to integrate and automate a broad range of engineering and manufacturing functions. Topics covered include manufacturing and process planning, flexible manufacturing, automation cells, material handling, resource planning (MRP) and just-in-time (JIT) production.

- EST 2606C Industrial Computers and Robotics II (O)** 5 credits  
The course is the second of a two course series leading to an Advanced Technical Certificate (ATC) in industrial computers and robotics. This course teaches the operation, programming and application of programmable logic control.
- EST 2631 Advanced Manufacturing Processes (O)** 3 credits  
This course teaches how to program computers in order to integrate and automate a broad range of engineering and manufacturing functions. Topics covered include advanced manufacturing and process planning, advanced flexible manufacturing, advanced automation cells, complex material handling, resource planning (MRP) and just-in-time (JIT) production.
- EST 2678 Industrial Robots (O)** 3 credits  
This course teaches the fundamentals of industrial robotic systems found on the factory floor of manufacturing plants. Topics covered in this course are components of an industrial robot, end-of-arm tooling, sensors, artificial intelligence, repair and maintenance.
- ETI 1000 Industrial Plant Tools and Equipment (O)** 3 credits  
This course teaches the skills necessary to properly select, inspect, use and care for the tools, test equipment, and lifting/handling equipment commonly used in the performance of assigned tasks in an industrial plant setting.
- EST 2700 Fluid/Pneumatic Instrumentation (O)** 3 credits  
This course teaches familiarization with the typical pneumatic indication and control loops encountered in industry. Transmitter, indicator, positioner, controller and actuator theory are covered in depth. The operation, arrangement and calibration methodology are also covered.
- EET 1560 Power Plant Systems (O)** 3 credits  
This course teaches the fundamentals of the major systems and components of a nuclear power plant.
- ETI 2425C Metallurgical Properties and Dynamics (O)** 3 credits  
This course teaches industrial maintenance with a foundation in the principles of the metallurgy of steel. Students learn about the thermal, physical, and chemical properties of steel.
- EST 2941 Electronics Internship I (O)** 1 - 2 credits  
The course provides supervised work experience in Electronic Engineering Technology. Prerequisite: permission of instructor.
- EST 2942 Electronics Internship II (O)** 4 credits  
The course is a continuation of Electronics Internship I.
- ETC 2521 Hydraulics and Hydrology (O)** 3 credits  
The course introduces the basic theory, engineering, and design technology related to hydrology and drainage areas, storm water runoff, and stream flow analysis. The student is also introduced to the basic theory and engineering design of the hydraulic flow in pipes and in open channel systems. Design concepts, techniques, and illustrations of hydrology and hydraulics are covered. Prerequisite: MAC 1114.
- ETI 2408C Welding Processes (O)** 3 credits  
This course teaches basic welding skills to prepare students for entry-level maintenance technician positions. The students learns principles of welding safety, fundamental practices of shielded arc welding, arc welding with consumable and non-consumable electrodes, brazing, soldering, and plasma cutting.
- ETI 1805C Introduction to Rigging and Lifting (O)** 3 credits  
This course teaches the knowledge and skills required by students preparing for careers in industrial maintenance involving the mechanical maintenance of heavy equipment. Students learn how to determine rigging requirements for lifts, select equipment, calculate loads, and safely operate different types of lift equipment.

- ETI 1701 Industrial Safety (O) 3 credits**  
This course teaches the knowledge and skills to recognize hazardous situations in industrial plants and the precautions to be observed and practiced to perform work activities safely. Among the topics covered are industrial safety hazards, electrical safety, working with chemicals, gases, and solvents, protective equipment, and safe working conditions.
- ETI 2315C Pneumatic and Hydraulic Principles (O) 3 credits**  
This course teaches how to perform mechanical maintenance on industrial equipment and devices. Students learn the theory and application of fluid mechanics, how to calibrate metering devices, and conduct elementary hydraulic tests.
- ETI 2416C Power Plant Machines and Components I (O) 3 credits**  
This course teaches the principles, concepts, and applications of various mechanical systems encountered in power plants, including: how to identify basic systems and components, troubleshoot equipment problems, and the basic procedures involved in maintaining and replacing component parts.
- ETI 2417C Power Plant Machines and Components II (O) 3 credits**  
This course prepares students for a career in industrial and/or power plant mechanical maintenance. Students learn the principles, concepts, and applications of various mechanical systems, how to identify basic systems and components, to troubleshoot equipment problems, and the basic procedures involved in maintaining and replacing component parts.
- ETI 2451C Mechanical Maintenance for Power Plants (O) 3 credits**  
This course teaches how to read and interpret drawings and blueprints, the application of lubrication principles, how to perform torque procedures, and the correct procedures for maintaining sealants, o-rings, and gaskets in power plant environments.
- EET 2550 Solar Photovoltaic Systems (O) 3 credits**  
This course teaches how photovoltaic (PV) systems work, how to determine the size of PV system needed for a certain application, and how to install and connect the PV system to the electrical grid. This is a hands-on course and prepares the student to take the electrical portion of the Florida Solar Contractor License Exam. This course requires an understanding of DC and AC electrical theory.
- MTB 1321 Technical Mathematics I 3 credits**  
This course covers basic algebra topics as applied in the field of electronic engineering technology. Prerequisite: MAT 0024 or placement into college-level mathematics.
- MTB 1322 Technical Mathematics II 3 credits**  
This course focuses on right triangle trigonometry, circular functions, graphs or trig functions, trig identities, exponents and logarithms, complex numbers, and their application to real world problems. Prerequisite: MTB 1321.
- EST 1800 Solar Thermal Systems (O) 3 credits**  
This course teaches technical development background, essential theory, principles and the future of solar thermal systems. Topics covered are solar fundamentals, solar water heating systems and components, systems installation, check-out and commissioning procedures, troubleshooting and repair, solar pool heating systems, and code and safety issues. This course prepares the student for the Florida State Solar Contractors Licensing Exam.

## **EMERGENCY ADMINISTRATION MANAGEMENT**

- DSC 1002 Terrorism and U.S. Security (P) 3 credits**  
This course teaches the foundations of national security as it relates to world terrorism, the United States engagement in the war against international terrorism, and the application of preemption known as the Bush Doctrine. The course is a survey of the history and cultural development of Islam and the extreme manifestation of political militancy known as Jihad. The cultural and political history will enhance student understanding of the factors leading up to the events of September 11, 2001, and how those events changed American security.

- DSC 1033 Weapons of Mass Destruction (O)** **3 credits**  
This course teaches how to respond to potential attacks with weapons of mass destruction (WMD). Participants learn to identify, assess, and respond to incidents involving chemical, biological, radiological, nuclear, or explosive weapons. The course includes training with personnel protective equipment, mass decontamination, medical assessment and management of victims as well as coordinating effective multi-agency response.
- DSC 1041 Community Emergency Response Team: Basic Training (O)** **1 credit**  
This course teaches disaster preparedness for potential hazards and training in basic disaster response skills such as incident command, fire safety, light search and rescue, team organization and disaster medical operations. Using the training learned in the classroom and during exercises, Community Emergency Response Team (CERT) members are trained to assist others in their neighborhood or workplace following an event when professional responders are not immediately available to help.
- DSC 1080 CERT: Refresher Training (O)** **½ - 1 credit**  
This course teaches updates to disaster response skills which require practice to reflect improved standards and new competencies. This course provides Community Emergency Response Training (CERT) participants who have completed basic training with an opportunity to practice their skills, learn new techniques, and test their knowledge and techniques in structured training exercises and simulations. Prerequisite: DSC 1041.
- DSC 1081 CERT: Advanced Training (O)** **½ - 1 credit**  
This course teaches disaster logistics, animal care, special needs concerns, search and rescue, donation management, community relations, shelter management, debris removal, utilities control, advanced first aid, CPR skills and other advanced skills for Community Emergency Response Team members. Prerequisite: DSC 1041.
- DSC 1222 Psychological Management of Disasters (O)** **3 credits**  
This course teaches the application of psychological knowledge to aid persons affected by natural and technological disasters, terrorist attacks, and other large scale traumatic stress. It places equal emphasis on responder self-care, care of others, and care for communities both short-term and long-term.
- DSC 1558 Detection Equipment for Law Enforcement (O)** **3 credits**  
This course teaches individual patrol officers and detection-and-interdiction teams to detect, verify, locate, measure, identify, assess, and, if warranted, report radiation and radioactive material. The course prepares the local law enforcement team, upon the discovery of suspected illicit radioactive material, to seamlessly progress from detection through alarm resolution to search and response, in conjunction with regional and national assets. This course trains law enforcement and public safety officers to employ department-issued personal radiation detectors (PRDs) and radiation isotope identification devices (RIIDs) within the bounds of the jurisdiction/agency operational environment, procedures, and legal considerations. It provides extensive hands-on practice with radioactive materials including combinations of innocent bulk cargo, simulated nuclear medical patients, industrial devices, and nuclear materials.
- DSC 1632 Summer Institute in International Disaster Relief (O)** **3 credits**  
This course teaches the planning, organization and conduct of an international disaster relief mission. It is part of a summer institute that brings participants from the United States and other countries together for intensive training over a two-week period. The Institute includes workshops and practical training on safety and security, mass care, public health, transportation, emergency communications, and reconstruction and development. Guest lecturers from aid agencies and national and international organizations located in other countries and elsewhere in southeast Europe share their experiences and expertise. Prerequisite: FFP 2820, FFP 2840.

- EMS 2554 Pediatric Education for the Prehospital Professional (O)** **1 credit**  
This course teaches the fundamental knowledge, skills, and attitudes necessary for assessing and treating ill and injured children. This course is sponsored by the American Academy of Pediatrics. Student must be a health care provider.
- EMS 2601C Paramedic I (O)** **11 credits**  
This course teaches the didactic materials and corresponding skills of the Department of Transportation 1998 National Standard Paramedic Curriculum relating to Module #1-Preparatory; Module #2-Airway Management and Ventilation; Module #3-Patient Assessment; and Module #4-Trauma. Prerequisite: BSC 1084 or BSC 2094 and BSC 2094L. Student must be a Florida certified EMT. Corequisite: EMS 2664. Insurance fee \$28.00. Lab fee \$250.00.
- EMS 2602C Paramedic II (O)** **11 credits**  
This course teaches the didactic materials and corresponding skills of the Department of Transportation 1998 National Standard Paramedic Curriculum relating to Module #5-Medical; Module #6-Special Considerations; Module #7-Assessment Based Management; Module #8-Operations. Prerequisite: EMS 2601C, EMS 2664. Corequisite: EMS 2665. Lab fee \$150.00.
- EMS 2659 Paramedic Field Internship (O)** **4 credits**  
The field internship on an ALS ambulance service provides the student with opportunities to display abilities and professional qualities consistent with an entry level paramedic. Prerequisite: EMS 2327, EMS 2665. Lab fee \$80.00.
- EMS 2664 Paramedic Clinical/Field Experience I (O)** **6 credits**  
This course teaches paramedic skills through supervised clinical/field rotations in the Emergency Department, Intensive Care Unit, Surgery, Anesthesia, and Postanesthesia Care Units, Pediatrics, Medical Examiner's Office, Laboratory, Respiratory Therapy Department, and ALS ambulances. Student must be a Florida certified EMT. Prerequisite: EMS 2601C. Lab fee \$25.00.
- EMS 2665 Paramedic Clinical/Field Experience II (O)** **6 credits**  
This course teaches advanced paramedic skills through supervised clinical/field rotations in the Emergency Department, Cardiac Care Units, Surgery, Anesthesia and Postanesthesia Care Units, Pediatrics, Nursery, Labor and Delivery, Psychiatric Care Units and ALS ambulances. Prerequisite: EMS 2601C, EMS 2664. Corequisite: EMS 2602C. Lab fee \$35.00.
- EMS 2731 Basic Life Support Instructor Course (O)** **1 credit**  
This course teaches the standard American Heart Association Basic Life Support Instructor certification. Prerequisite: HSC V405.
- EMS 2375 Paramedic State Exam Review (O)** **1 credit**  
This course is a comprehensive review of Paramedic curriculum, preparing students to successfully complete the Paramedic State Certification examination. This is also open to certified paramedics and other interested allied health professionals. Corequisite: EMS 2659 or permission of instructor.

## ENGINEERING

- EGS 2025 Probability and Statistics for Engineers (P)** **3 credits**  
This course teaches axioms of probability, combinatorial and geometrical probability; probability distributions; measures of location and dispersion; sampling and sampling distributions; estimations and tests of hypotheses; engineering applications. Prerequisite: MAC 2312 with a grade of "C" or higher and COP 2000. Corequisite: MAC 2313.
- EGS 2321 Engineering Analysis - Dynamics (P)** **3 credits**  
This course teaches kinematics and kinetics of particles and rigid bodies; mass and acceleration, work and energy, impulse and momentum. Prerequisite: EGS 2310 with a grade of "C" or higher. Corequisite: MAC 2313.

**EGS 2310 Engineering Analysis - Statics (P)** **3 credits**  
 This course teaches fundamental concepts of mechanics, including resultants of force systems, free-body diagrams, equilibrium of rigid bodies, and analysis of structures, friction, and moment of inertia. Prerequisite: MAC 2311 with a grade of "C" or higher and PHY 2048 with a grade of "C" or higher. Corequisite: MAC 2312.

## ENGLISH

**ENC 1101 English Composition I (P)\*** **3 credits**  
 This course presents the rhetorical principles of modern and classical essays, which in practical application enable students to compose college level expository and argumentative essays. This course contains a required speech component. Students demonstrate college-level writing skills through multiple assignments. Prerequisite: Student must score into college-level reading and English on placement test or complete ENC 0001 with a grade of "C" or higher.

**ENC 1102 English Composition II (P)\*** **3 credits**  
 This course emphasizes critical thinking through the study of literature and develops skills in writing research essays for analytical, argumentative, and expository purposes. Students demonstrate college-level writing skills through multiple assignments. Prerequisite: ENC 1101 and must place into college-level reading on placement test.

**ENC 1107 Advanced College Writing (P)\*** **3 credits**  
 This course develops critical thinking through analysis of writings in history, literary theory, philosophy and ethics, psychology, sociology, science, and technology. As an alternative to ENC1102, this Gordon Rule course requires text analysis, argumentation, and research-based college-level writing skills through multiple assignments. Prerequisite: ENC 1101 and must score into college-level reading on placement test.

**ENC 2210 Technical Communications (P)\*** **3 credits**  
 This course focuses on various methods of composition and research applicable to professional writing practices such as visual rhetoric, persuasion, argumentation, exposition, process/analysis, and critical analysis. Students learn and practice documentation and writing standards both individually and through group activities. The majority of class assignments are geared to simulate work-place situations in order to provide students with practical experience transferable to their chosen careers. This course also includes rhetorical principles for writing on the Web. In addition, students are required to provide verbal and written critical analyses of reading materials in subject areas such as ethics, technology, communications, rhetoric, and theory. Prerequisite: ENC 1101 and must score into college-level reading on placement test.

**ENC 2133 Research Writing (P)\*** **3 credits**  
 This course emphasizes research writing in historical and contemporary cultural topics related to various disciplines. Prerequisite: ENC 1101, ENC 1102.

**AML 2010 American Literature to 1865 (P)\*** **3 credits**  
 This course provides an introduction to American literature based upon selected verse and prose masterpieces from colonial times to 1865. Students demonstrate college-level writing skills through multiple assignments. Prerequisite: ENC 1101 or permission of instructor and student must score into college-level reading on placement test.

**AML 2020 American Literature after 1865 (P)\*** **3 credits**  
 This course provides an introduction to American literature based upon selected verse and prose masterpieces from 1865 to the present. Students demonstrate college-level writing skills through multiple assignments. Prerequisite: ENC 1101 or permission of instructor and student must score into college-level reading on placement test.

\*GORDON RULE COURSE - must achieve a grade of "C" or higher for the A.A. Degree

- ENL 2012 English Literature to 1798 (P)\* 3 credits**  
This course provides an introduction to English literature based upon selected masterpieces from Beowulf to Samuel Johnson. Students demonstrate college-level writing skills through multiple assignments. Prerequisite: ENC 1101 or permission of instructor and student must score into college-level reading on placement test.
- ENL 2022 English Literature after 1798 (P)\* 3 credits**  
This course provides an introduction to English literature based upon selected masterpieces from the Romantic Movement to the present. Students demonstrate college-level writing skills through multiple assignments. Prerequisite: ENC 1101 or permission of instructor and student must score into college-level reading on placement test.
- LIT 2110 World Literature: Homer to the Renaissance (P)\* 3 credits**  
This is an academic survey of significant authors and their works from Homer to the Renaissance with emphasis on literary trends, forms, and appreciation. Students demonstrate college-level writing skills through multiple assignments. Prerequisite: ENC 1101 or permission of instructor and student must score into college-level reading on placement test.
- LIT 2120 World Literature: Enlightenment to the Present (P)\* 3 credits**  
This is an academic survey of significant authors and their works from the 17<sup>th</sup> century into the 20<sup>th</sup> century. Students demonstrate college-level writing skills through multiple assignments. Prerequisite: ENC 1101 or permission of instructor and student must score into college-level reading on placement test.
- LIN 2670 Linguistics and English Grammar (P)\* 3 credits**  
This course provides an introductory view of linguistics, the science of language. It analyzes the principles of English grammar and specific grammatical features of written English. Also, linguistic theory is introduced and applied to learning and teaching English as a second language. Students demonstrate college-level writing skills through multiple assignments. Prerequisite: ENC 1101 and student must score into college-level reading on placement test.
- ENC 1930 Beginning Creative Writing (P) 1 credit**  
The intent of this introductory-level course is to familiarize the student with three literary genres: short fiction, poetry, and drama. Subsequent to a review of the history and essential elements of each genre, the student is encouraged to develop his/her own creative writing ability through assigned exercises. Minimal basic English grammar is also taught as needed.
- ENC 2200 Business Communications 3 credits**  
This course is a comprehensive study of various areas of business communication with emphasis on the writing of business letters and reports. The course is designed for business administration and pre-business education students.
- CRW 2001 Creative Writing I (P) 3 credits**  
This course teaches creative writing skills under workshop/lab conditions of group analysis and discussion. Specific techniques in both prose and poetry are discussed. Prerequisite: ENC 1101 or permission of instructor, and student must score into college-level English and reading on placement test.
- CRW 2002 Creative Writing II (P) 3 credits**  
This course is a continuation of Creative Writing I (CRW 2001). A significant writing project/class presentation is required as well as at least two additional written works of high quality. Prerequisite: CRW 2001 or permission of instructor.
- CRW 2003 Creative Writing III (P) 3 credits**  
This course is a continuation of Creative Writing II (CRW 2002). A significant writing project/class presentation is required as well as at least two additional written works of high quality. Prerequisite: CRW 2002.

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- CRW 2004 Creative Writing IV (P)** **3 credits**  
 In this advanced writing course students produce a major piece of original writing of high quality, such as a collection of 2-3 short stories, a collection of 5-6 poems, or a full 3-act play. Prerequisite: CRW 2003.
- CRW 2600 Writing Scripts for Television and Film (P)** **3 credits**  
 This course introduces the fundamentals of scriptwriting, including dialogues, characterization, scene and act, effective visualization, format, and marketing. Prerequisite: student must score into college-level English on placement test.
- CRW 2710 Introduction to Screenwriting and Scriptwriting (P)** **3 credits**  
 This course teaches advanced techniques of scriptwriting, including dialogue, characterization, scene and act, effective visualization, format, and marketing. Students choose to develop a visual media screenplay or a dramatic (stage play) script. Prerequisite: student must score into college-level English on placement test.
- ENC 1933 Special Topics in Writing (P)** **½ - 5 credits**  
 This course aids the student in the development and strengthening of skills related to writing techniques. Prerequisite: permission of instructor.
- FIL 2100 Writing for Film and Television (P)** **3 credits**  
 This course examines the fundamentals of scriptwriting, including dialogue, characterization, scene and act, effective visualization, format, and marketing. Prerequisite: Student must score into college-level English on placement test.
- FIL 2109 Film and Television Scriptwriting (P)** **3 credits**  
 This course examines advanced techniques of scriptwriting, including dialogue, characterization, scene and act, effective visualization, format, and marketing. Students work as part of a production team to produce a movie/television scene. Prerequisite: Student must score into college level English on placement test.
- FIL 2133 Film and Television Scriptwriting II (P)** **3 credits**  
 This course teaches the development of sophisticated story ideas/premises, treatments, step outlines, character biographies, storyboards, drafts, and revisions of both original ideas and adaptations. It examines the art of adapting print media to visual media through advanced techniques of scriptwriting, including dialogue, characterization, scene and act, effective visualization, and formatting. Prerequisite: Student must score into college-level English on placement test. FIL 2100 or FIL 2109 is recommended.
- LIT 2330 Current Children's Literature (P)** **3 credits**  
 This course presents an overview of literature for adults who work with children, as well as ways literature can be used to further literacy and appreciation for literary heritage. Prerequisite: Student must score into college-level English and reading on placement test.
- LIT 2931 Special Topics in Literature (P)** **1 - 3 credits**  
 This course provides intensive reading in a particular concept, topic, or genre of popular literary appeal. Examples include women in literature, mystery, stories, families in multi-cultural America, science fiction, and the historical novel. May be repeated for credit with a change of topic.
- LIT 2932 Special Topics in Literature (P)** **1 - 3 credits**  
 This course teaches and analyzes an idea, theme, or figure in popular literature through intensive, focused reading. Examples include the Frontier in American Literature, the romance novel, and the Native American in fiction. May be repeated for credit with a change of topic.
- LIT 2933 Special Topics in Literature (P)** **1 - 3 credits**  
 This course teaches the component aspects of popular literary works through close reading. Examples include fantasy fiction, the nature of the detective in mystery novels, and narrative point of view. May be repeated for credit with a change of topic.

**ENC 0080 Basic English Review\* 3 credits**

This course is a detailed consideration of the basics of grammar and such related elements as punctuation, capitalization, and allied mechanics of writing with an emphasis on drill and individualized instruction. Prerequisite: placement scores.

**ENC 0001 Fundamentals of Writing\* 3 credits**

This course presents the relationship of sentence structure to ideas: theory, practicum, and application. Prerequisite: placement scores or ENC 0080 with a grade of "C" or higher.

**ENGLISH AS A SECOND LANGUAGE****EAP 0320 ESL Prep Reading I\* 3 credits**

This course offers comprehensive skills to nonnative students of English who have been admitted for college-preparatory study. The course emphasizes improving reading in the academic content areas. Prerequisite: placement scores.

**EAP 0420 ESL Prep Reading II\* 3 credits**

This is a continuation of ESL Prep Reading I and provides a comprehensive review of study and test-taking skills and basic writing skills aimed specifically at nonnative students. Prerequisite: placement scores or EAP 0320.

**EAP 0384 ESL Grammar and Structure I\* 3 credits**

This course provides a review of English grammar and structure for Limited English Proficient (LEP) students. The course focus is verb tenses, subject/verb agreement, and preposition use, verbal idioms and other English grammar problem areas for LEPs. Prerequisite: placement scores.

**EAP 0484 ESL Grammar and Structure II\* 3 credits**

This is a continuation of ESL Grammar and Structure I and focuses on correct written expression at the college level. Prerequisite: placement scores or EAP 0384.

**ENVIRONMENTAL SERVICES TRAINING****HMV V949 Environmental Services Training I (O) 150 hours**

This course prepares students for employment as environmental services providers or technicians for residential homes and institutions (hotel/motels, hospitals, nursing homes, campus and office buildings). The course focuses on broad, transferable skills, while stressing the understanding of all aspects of the environmental services industry with hands-on experience.

**HMV V960 Environmental Services Training II (O) 150 hours**

This course provides training in Environmental Services. Topics include elements of the industry such as planning, management, finance, technical and production skills, underlying principles of technology, labor issues, community issues, health, safety, and environmental issues. Prerequisite: HMV V949.

**FILM HISTORY****FIL 1030 History of Film (P) 3 credits**

This course examines important films, techniques, and styles from 1900 to the present. It also surveys the industrial and social developments of cinema.

**FIRE SCIENCE TECHNOLOGY****FFP 1000 Introduction and Orientation to Firefighting (O) 3 credits**

This course introduces the history of fire services in the United States, including philosophy and traditions of the fire service, and career orientation.

\*College preparatory. Credit not applied toward degree. In addition to classroom time, this course requires two (2) hours per week in the Academic Support Center.

- FFP 1120 Characteristics of Building Construction (O)\*** **3 credits**  
This course presents information about construction as it relates to the spread of fire and/or inspection. It reviews general information about most types of structures.
- FFP 1540 Fire Protection and Detection Systems (O)\*** **3 credits**  
This course explains the various types of private fire protection systems, including automatic sprinklers and standpipes. This course is part of the State Inspectors program.
- FFP 2541 Private Fire Protection Systems II (O)** **3 credits**  
This course teaches an in-depth study of pre-engineered and portable systems, extinguishing agents, inspection procedures for code compliance and enforcement, and alarm systems. Prerequisite: FFP 1540.
- FFP 1505 Fire Inspection Practices (O)\*** **3 credits**  
This course familiarizes students with state and local statutes and ordinances relating to fire prevention, survey national fire codes, Underwriters Laboratories, South Florida Building codes, and N.F.P.A. manuals. The course presents inspections, surveys, and report findings.
- FFP 1040 Private Fire Brigade (O)** **3 credits**  
This course contains basic firefighting principles for the industrial worker, including fire behavior, hose lines and nozzles, protective breathing apparatuses, ladders, ventilation, water distribution systems, and extinguishers.
- FFP 1050 Aircraft Fire Rescue and Protection (O)** **3 credits**  
This course prepares students mentally and physically for confrontation with an aircraft accident or incident occurring where fire and rescue services are required. Basic firefighting skills are required.
- FFP 1102 Physical Conditioning for Firefighters (O)** **1 credit**  
This course teaches an understanding of and appreciation for the usefulness of conditioning exercises and physical/emotional fitness necessary to fulfill the role of a firefighter. Prerequisite: EMT or paramedic training.
- FFP 1106 Multiple Alarm Operations (O)** **3 credits**  
This course emphasizes proper handling of multiple alarm fires and other disasters which engage fire department units from other departments.
- FFP 1109 Occupational Safety and Health for the Fire Service (O)** **3 credits**  
This course teaches the basic concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk evaluation and control procedures for fire stations, training sites, emergency vehicles, and emergency situations involving fire, EMS, hazardous materials, and technical rescue. Upon completion of this course, students should be able to establish and manage a safety program in an emergency service organization.
- FFP 1212 Confined Space Rescue I (O)** **3 credits**  
This course begins with the basic OSHA requirements and American National Standards Institute standards pertaining to confined space. This detailed hands-on course provides each student with practical confined space training rescue activities which can be used by both private and governmental agencies to train their employees to become aware of confined space rescue activities.
- FFP 1521 Plans Examination and Blueprint Reading (O)\*\*** **3 credits**  
This course presents plans-examination process and blueprint reading as it pertains to the prospective Fire Inspector.
- FFP 2510 Building and Fire Codes I (O)\*\*** **3 credits**  
This course studies and compares national, state, and local building and fire codes, emphasizing local laws and ordinances pertaining to building construction and design.

\*One of five courses for Fire Inspector and one of eight courses for Fire Officer.

\*\*One of five courses for Fire Inspector.

- FFP 2301 Fire Hydraulics (O)** **3 credits**  
This course presents the theory of hydraulics as applied to fire service with emphasis on the mathematics and formula to fire streams, master streams, and pump operations.
- FFP 1610 Fire Behavior and Combustion (O)** **3 credits**  
This course teaches the theories and fundamentals of how and why fires start, spread, and how they are controlled.
- FFP 1793 Fire and Life Safety Educator I (O)** **3 credits**  
This course teaches the knowledge and skills needed to successfully perform the duties of a fire and life safety educator. The students also develop presentation skills and learn how to formulate public education programs. This course meets the National Certification criteria for Fire and Life Safety Education Level I.
- FFP 2810 Firefighting Tactics and Strategy I (O)\*** **3 credits**  
This course teaches the skills necessary to access, evaluate and extinguish a fire with maximum utilization of manpower, equipment and apparatus. Emphasis is on pre-planning, fireground decision-making skills and problem solving. Prerequisite: Firefighting experience.
- FFP 2811 Firefighting Tactics and Strategy II (O)\*** **3 credits**  
This course teaches the skills to effectively and efficiently respond to a crisis through the advanced study of fire attack. Instruction focuses on the importance of strategy and tactics in a fire situation with a focus on critical thinking. Prerequisite: FFP 2810.
- FFP 1812 Engine and Truck Company Fireground Operations (O)** **3 credits**  
This course reviews operations of the Engine and Truck Company on the firegrounds. Students study the objectives of firegrounds operations, duties of company personnel, apparatus positioning, and building coverage related to occupancy.
- FFP 2111 Fire Chemistry (O)** **3 credits**  
This course teaches the different features and forms of matter and energy, common substances, and how they relate to fires. The chemical formula of flammable and combustible substances, their bondings and separations, as well as the different chemical reactions related to fire and oxidation are covered. Particular emphasis is placed on the specific substances to ignite and accelerate burnings.
- FFP 2720 Company Officer Leadership (O)\*** **3 credits**  
This course presents leadership skills including the topics of management systems and theories, motivation, communication, and individual behavior for firefighters soon to be fire officers.
- FFP 2740 Fire Service Course Delivery (O)\*** **3 credits**  
This course emphasizes techniques having wide applications to teaching situations, as well as teaching devices for specific areas. The course stresses measuring teaching effectiveness, communication of ideas, and methods of strengthening retention of knowledge and skills.
- FFP 2801 Incident Command System (O)\*** **3 credits**  
This course teaches the essential skills and principles associated with an Incident Command System (ICS). Emphasis is placed on the organizational development of the ICS as an incident management tool. Instruction includes the logistical and fiscal considerations, incident planning, and the management of incidents with needs that may vary depending on the magnitude of the event.
- FFP 2401 Hazardous Materials Technician Module I (O)** **3 credits**  
This course teaches a working knowledge of the regulations that are applicable to hazardous materials operations, the types of non-bulk storage containers, health and safety concerns surrounding hazardous materials operations, and pre-incident planning as it applies to Hazardous Materials Response Technicians. This is the first of four modules that will meet the state requirement to sit for the state certification test.

\*One of eight courses for Fire Officer.

- FFP 2402 Hazardous Material Technician Module II (O)** 3 credits  
 This course teaches a working knowledge of detection devices that are used during hazardous materials operations, and the types of personal protective equipment, decontamination, and control techniques employed during a hazardous materials operation. This is the second of four modules that will meet the state requirement to sit for the state certification test. Prerequisite: FFP 2401.
- FFP 2421 Hazardous Materials Technician Module III (O)** 3 credits  
 This course teaches a working knowledge of hazardous materials chemistry and its importance when applied by the Hazardous Materials Response Technician. This is the third of four modules that will meet the state requirement to sit for the state certification test. Prerequisite: FFP 2401, FFP 2402.
- FFP 1302 Fire Department Pumping Apparatus (O)** 3 credits  
 This course prepares firefighters for positions as firefighter driver/engineers. Students receive lecture and practical training on the proper use of fire apparatus maintenance, National Standards, and requirements for testing equipment. Prerequisite: FFP 2301. Lab fee \$15.00.
- FFP 2604 Fire and Arson Investigation (O)** 3 credits  
 This course surveys arson law and incendiary fires, determining the cause of fires, recognizing and preserving evidence, interviewing witnesses, handling juveniles, presentation of court testimony, court procedures, and pathology of fire setters.
- FFP 2741 Fire Service Course Design (O)** 3 credits  
 This course teaches the prospective fire science instructor the principles of effective curriculum design to include issues related to teaching the adult learner and basic elements of student-centered learning. Designing courses that address learning, performance, and behavioral objectives are presented.
- FFP 2706 Public Information Officer (PIO) (O)** 3 credits  
 This course teaches how to serve effectively as an organization's public information officer according to current practices in the profession of public relations as applied to the fire service. Emphasis is placed on case studies in crisis communications and the role of the Public Information Officer's (PIO) role in the Incident Command System.
- FFP 2781 Fire Department Organization and Administration (O)** 3 credits  
 This course presents the principles of management theory, and its application to the fire service. The course is intended for officers and managers whose area of responsibility encompasses long and short range planning, budgeting, and administration.
- FFP 2770 Legal Issues for the Fire Service (O)** 3 credits  
 This course teaches the federal, state, and local laws that regulate emergency services, national standards influencing emergency services, standard of care, tort, liability, and a review of relevant court cases.
- FFP 2201 Rope Rescue Practices I (O)** 3 credits  
 This course demonstrates and explains the proper procedures in using rope for rescue of victims and hoisting of tools and equipment. Prerequisite: Must be an active firefighter. Lab fee \$15.00.
- FFP 2949 Internship in Fire Science (O)** 1 - 4 credits  
 This course provides on-the-job experience wherein students are given the opportunity to strengthen and develop expertise in a practical setting within the Fire Science field. The student and instructor develop a training plan outlining the expected student outcomes. Student progress is monitored and evaluated weekly by the instructor and the student's agency supervisor. The student completes a written project related to the internship.
- FFP 1930 Contemporary Issues in the Fire Service (O)** 3 credits  
 This course meets the special needs of a Fire Service and/or private industry. Prerequisite: Must be employed by a Fire Service agency.

**GCO 1947 Golf Course Design Concepts (O) 3 credits**

This course is the study, practice and analysis of landscape design with specific emphasis on grooming and maintaining greens, tees, fairways, roughs and other areas. Prerequisite: ETD 1320, ETD 2568C.

**GCO 2601 Materials Calculations (O) 3 credits**

This course teaches students how to measure and calculate the amount of materials needed in golf course and landscape operations. Materials discussed include fertilizers, pesticides, grass seeds, irrigation water, plant materials, and soil amendments.

**GCO 2632 Golf Course Organization and Administration (O) 3 credits**

This course is a detailed analysis of golf course and landscape operations, including personnel, planning, budgeting, purchasing, recordkeeping, labor management and other administrative functions. Prerequisite: permission of instructor.

**GCO 2944 Golf Course Internship (O) 3 credits**

This course provides on-the-job-training in the golf course industry. Supervised training in industry tools, techniques, practices, and problems at selected golf courses with weekly evaluations are included. Prerequisite: permission of instructor.

**GCO 2945 Supervised Work Experience (O) 1 - 4 credits**

This course provides supervised on the job training at selected golf courses. Prerequisite: permission of instructor.

**HEALTH INFORMATION MANAGEMENT****HIM 1000 Introduction to Health Information Management (O) 3 credits**

This course teaches an introduction to health information management including the health care environment, health care data, and health information analysis. The history, evolution of health care in the United States, and the health information management professional are studied. Ambulatory care, long term care, mental health, and acute care health records are introduced. Forms design, filing methods, and types of numbering systems are covered. Prerequisite: HSC 2531, BSC 1084, CGS 1100.

**HIM 1012 Legal Aspects of Health Information (O) 2 credits**

This course teaches the principles of legal issues affecting the preparation and use of health information documents. Both the computer-based record and the paper record are examined with regard to local, state, and federal laws. The legal guidelines for release of information by health care providers are taught. Corequisite: HIM 1000.

**HIM 1222 Basic ICD-9 Coding (O) 3 credits**

This course teaches the use of the International Classification of Diseases (ICD-9). This includes the coding of diseases, operations, and their relationship to the reimbursement for health care treatment in hospitals and physicians' offices. Coding conventions, sequencing, and rules for correct coding are introduced. Prerequisite: BSC 1084, HSC 2531. Corequisite: HIM 1000, HIM 1012.

**HIM 1282 Basic CPT Coding (O) 3 credits**

This course teaches Current Procedural Terminology (CPT) and the International Classification of Diseases, 9<sup>th</sup> Revision, Clinical Modification (ICD-9-CM) including coding of diseases, operations, and physicians' office procedures. Prerequisite: HIM 2531, BSC 1084. Corequisite: HIM 1000, HIM 1012, HIM 1222. Lab fee \$20.00.

**HIM 2232 Intermediate ICD-9 Coding (O) 2 credits**

This course teaches the use of the International Classification of Diseases, 9th edition, Clinical Modification (ICD9CM). The course increases the quality of ICD9CM code selection by applying the decision process in problem solving using well-defined medical record review methods and guidelines. Prerequisite: HIM 1000, HIM 1012, HIM 1222, HIM 1282. Corequisite: HIM 1273C, HIM 2254. Lab fee \$20.00.

- HIM 2254 Intermediate CPT Coding (0)** **2 credits**  
This course teaches the use of the Current Procedural Terminology (CPT) including the use of modifiers, HCPCS, and Physicians' Office Medical Necessity and documentation for Medicare, Medicaid, and government guidelines. Prerequisite: HIM 1000, HIM 1012, HIM 1222, HIM 1282. Corequisite: HIM 1273C, HIM 2232.
- HIM 1273C Billing and Reimbursement Methods (0)** **3 credits**  
This course teaches reimbursement issues for health care facilities. Diagnosis related groups (DRG's), ambulatory related groups (APG's), resources-based relative value scale (RBRVS), health maintenance organizations (HMO's), and other major insurance/third party payors are studied. The various types of reimbursement methodologies are studied and practiced. Prerequisite: HIM 1000, HIM 1012, HIM 1222, HIM 1282. Corequisite: HIM 2232, HIM 2254. Lab fee \$20.00.
- HIM 2506 Quality Assessment (0)** **2 credits**  
This course teaches the application of quality assurance, quality improvement, utilization management, risk management, recertification, and infection control to health information management. Tools for improving the quality of patient care and services rendered are studied including analysis of records and identification of inconsistencies, omissions, or patient care problems through screening mechanisms. Prerequisite: HSC 2532, ENC 1101, CGS 1100, MAT 1033, HIM 2825, PSY 2012 or SYG 2000. Corequisite: MAN 2021, HIM 2826, SPC 1608. Lab fee \$20.00.
- HIM 1442 Pharmacology for HIM (0)** **2 credits**  
This course teaches general pharmacological concepts and principles in the management of patient/client care. Therapeutic drugs and indications and contraindications associated with drug therapy and related disease processes are described. Prerequisite: HIM 1000, HIM 1012, HIM 1222, HIM 1282, BSC 1084, HSC 2531. Corequisite: HIM 1510C, HIM 2433.
- HIM 1510C Health Care Data Analysis (0)** **3 credits**  
This course teaches indices, databases, and registries as techniques in the collection of data for analysis of health information. Students present, calculate, and interpret health data for quality management, utilization management, risk management, and other patient care related studies. Prerequisite: student must score into college-level math in placement test, HIM 1000, HIM 1012, HIM 1222, HIM 1282. Corequisite: HIM 1442, HIM 2433. Lab fee \$20.00.
- HIM 2825 Health Office Internship (0)** **3 credits**  
This course provides professional practice experience in three types of health care facilities. The student completes 45 hours of professional practice in each area assigned. The student's course instruction and professional practice placement are coordinated for maximum learning experience. Prerequisite: permission of program director, HIM 1510C, HIM 1442, HIM 1273C, HIM 2433, HIM 2232, HIM 2254. Insurance fee \$22.00.
- HIM 2826 Health Office Externship (0)** **3 credits**  
This course provides practice in the skills necessary for a practitioner in the health information field including didactic and practical projects such as storage and retrieval, discharge analysis, incomplete record control, release of information, patient accounting, regulatory agencies, coding and abstracting, quality assessment and utilization review, and a survey and inservice of the facility. Prerequisite: HIM 2825. Corequisite: HIM 2506. Insurance fee \$22.00.
- HIM 2433 Pathophysiology (0)** **3 credits**  
This course presents the nature, cause, and treatment of human diseases including a basic knowledge of the body's defense mechanism. Medical Terminology II, (HSC 2532) is recommended for Medical Secretarial Technology majors. Prerequisite: HIM 1000, HIM 1012, HIM 1222, HIM 1282. Corequisite: HIM 1510C, HIM 1442.

**HEALTH SCIENCE****HSC 1242 Instructing Health Professionals (O) 1 - 3 credits**

This course enables instructors and trainers in the industry of health occupational programs to more effectively plan, deliver, and evaluate their classes. It focuses on the development of appropriate learning materials, effective teaching methods, testing procedures and policies and procedures specific to the health science student and encompasses all related specialized educational and institutional accreditation standards and legal requirements.

**HSC V003 Introduction to Health Care (O) 82 hours**

This course teaches the knowledge and skills necessary for entry into a course of study in the health care field. It includes a knowledge of the health care delivery system, health occupations, and communication skills. Safety, health promotion, and legal/ethical issues are presented. This course also fulfills the state mandatory four-hour bloodborne pathogens (HIV/AIDS) requirement. Pre/corequisite: HSC V405 or documentation of current CPR certification from the American Red Cross or the American Heart Association. Lab fee \$20.00.

**HSC V431C Central Service Technology Theory (O) 205 hours**

This course teaches employment preparation for supervisory positions in, but not limited to, surgical central sterile services, central supply, stocking clerks, stock rooms, clerks, order fillers, warehouse, and sterilizer areas. Pre/corequisite: HSC V405, HSC V003. Corequisite: HSC V811L. Lab fee \$50.00.

**HSC V811L Central Service Technology Practicum (O) 100 - 205 hours**

This course teaches and verifies competencies related to theory, procedures, processes, and equipment utilized in the various areas of central service technology in the hospital setting. The student works with preceptors presently on the job and learns to compare and apply "best practices" in the field. Pre/corequisite: HSC V405, HSC V003. Corequisite: HSC V431C.

**HEALTH SERVICES MANAGEMENT****HSC 2632 Overview of Health Care Delivery (O) 4 credits**

This course teaches current issues and trends in contemporary health care delivery systems. Topics include marketing and customer service practices, emerging legal and financial issues and governance in the health care industry. Prerequisite: student must test into college-level reading and English on placement test. Pre/corequisite: HSC 1001.

**HSA 2182 Health Services Management Concepts (O) 4 credits**

This course teaches the skills necessary to be a health care manager. The course provides an overview of the U.S. Health System and the principles of health care management. Pre/corequisite: HSC 2632.

**HSC 1802 Health Science Seminar & Supervised Work Experience (O) 4 credits**

This course examines concepts introduced in the classroom components of the Health Services Management program through classroom discussion, written assignments, presentations, job shadowing and work experience. Personal and professional characteristics for success in health care setting are addressed. Prerequisite: HSA 2182.

**HSC 2531 Medical Terminology I 3 credits**

This course is the foundation for understanding of the language of medicine. By beginning with roots, suffixes, and prefixes, the student learns to interpret and recognize medical terminology by system.

**HSC 2810 Health Service Management Practicum (O) 4 credits**

This course teaches the application of the principles and techniques in health care management that are demonstrated in the field capstone project. Prerequisite: ENC 1101; HSA 2182; PHI 1635 or PHI 2630; BSC 1084 or BSC 2093, BSC 2093L; BSC 2094, BSC 2094L; ECO 2013 or ECO 2023, a mathematics General Education required course. Pre/Corequisite: MNA 2345, MAN 2300, PSY 2012.



**HSC 1001 Introduction to Health Professions (O) 3 credits**

This course teaches the health care delivery system, roles of the health team members, and basic skills necessary for success in a health career.

**HEALTH CARE MANAGEMENT****HSA 3113 Health Care Trends and Issues (U) 3 credits**

This course provides the student with the knowledge, skills, and tools to influence positive change as a leader in the U.S. health care system. This course promotes the analysis of key health care issues with an emphasis on health care policies and initiatives that shape health care delivery. Analyses of the current structure of profit versus non-profit health care organizations, financing health care, and the impact of financial stakeholders are emphasized. Ethical issues that develop when government, the private sector, and consumers vie to influence health care are presented as a component of evidence-based policy revision. Students are introduced to the different types of research, its focus, methods and the nature of their subsequent findings.

**HSA 4421 Policy and Governmental Regulations in Health Care (U) 3 credits**

This course explores and analyzes the legislative process, examines health system issues at the federal, state and local levels, and differentiates the components of the policy analysis process. Through lecture, class projects, and research this course prepares students to identify health care issues, develop evidence-based policy recommendations, and create a proposal to influence change in a health care policy. Prerequisite: HSA 3113.

**HSA 4383 Quality Improvement in Health Care (U) 3 credits**

This course focuses on issues confronting health care managers seeking to improve the quality of health care delivery. Students review quality indicators and quality improvement tools. Prerequisite: HSA 3113.

**HSA 4160 Health Care Marketing (U) 3 credits**

This course teaches the concepts of marketing and customer service specific to health care. The focus is on market principles and strategies as they apply to industry and the unique constraints of federal health care regulations. Included are the marketing process, understanding the consumer, pricing, distribution, advertising, sale of health care products and services, and developing and measuring customer satisfaction and loyalty. Prerequisite: HSA 3113.

**HSA 4922 Capstone Project in Health Care Management (U) 3 credits**

This course integrates the knowledge, skills and abilities learned in the program through a capstone project. It is intended to strengthen and synthesize skills related to management, leadership, business law, ethics, epidemiology, financial management, marketing, health care policies, human resource management, information system management and research. Prerequisite: BUL 3130, ACG 3024, ISM 3011, MAN 3240, MAN 3303, MAN 4301, HSA 3113, HSA 4160, HSA 4421, HSC 3500. Pre/Corequisite: HSA 4383, HSC 4730.

**HSC 4730 Foundations of Health Science Research (U) 3 credits**

This course introduces the research process with emphasis on the critique and utilization of research as it pertains to health care management. This course explores the research process as a foundation for acquiring skills needed to access, critically appraise, and synthesize research literature. The relationship of research and the utilization of evidence-base practice is addressed. Prerequisite: HSA 3113.

**MAR 3023 Marketing Management (U) 3 credits**

This course teaches an overview of the marketing process including: a strategic marketing framework, marketing research, consumer behavior and analysis, organizational buying behavior, competitor analysis, communication and advertising strategy, channels of distribution, pricing strategies, sales promotion, customer relationship management, services marketing, global marketing strategies and new product development.

**HSC 3500 Epidemiology (U)****3 credits**

This course focuses on the fundamentals of epidemiology and an understanding of factors that lead to epidemics and outbreaks of disease. Prerequisite: HSA 3113.

**HEAVY EQUIPMENT****AEB V030 Auto Leveling Procedures for Surveying (0)****100 hours**

This course teaches heavy equipment operators to improve their skills in auto leveling procedures for surveying purposes. There is a strong emphasis on hands-on skills and mastery of competencies. Course content is delivered through lecture, demonstration, hands-on activities and on-the-job training. Prerequisite: AEB V035, AEB V038, AEB V042.

**AEB V031 Back Hoe Loader Operations (0)****140 hours**

This course teaches the fundamental knowledge necessary for initial employment as a Back Hoe Loader and/or related tractor equipment operator. There is a strong emphasis on hands-on skills and mastery of competencies. Course content is delivered through lecture, demonstration, and on-the-job training. Prerequisite: AEB V035, AEB V038, AEB V042.

**AEB V032 Badger Operations (0)****200 hours**

This course teaches the fundamental knowledge required for initial employment in Badger Operations and/or related tractor equipment operations. There is a strong emphasis on hands-on skills and mastery of competencies. Course content is delivered through lecture, demonstration, and on-the-job training. Prerequisite: AEB V035, AEB V038, AEB V042.

**AEB V033 Boom Mowing Operations (0)****100 hours**

This course teaches the fundamental knowledge required for initial employment in Boom Mowing and/or related equipment operations. There is a strong emphasis on hands-on skills and mastery of competencies. Course content is delivered through lecture, demonstration, and on-the-job training. Prerequisite: AEB V035, AEB V038, AEB V042.

**AEB V034 Dozer Operations (0)****100 hours**

This course teaches the fundamental knowledge for initial employment as a Dozer Operator and/or related equipment operator. There is a strong emphasis on hands-on skills and mastery of competencies. Course content is delivered through lecture, demonstration, and on-the-job training. Prerequisite: AEB V035, AEB V038, AEB V042.

**AEB V035 Rubber Tire Operations (0)****90 hours**

This course teaches the fundamental knowledge for initial employment as a Rubber Tire Loader and/or related equipment operator. There is a strong emphasis on hands-on skills and mastery of competencies. Course content is delivered through lecture, demonstration, and on-the-job training. Prerequisite: AEB V038.

**AEB V036 Street Sweeper Operations (0)****100 hours**

This course teaches the fundamental knowledge for initial employment as a Street Sweeper Operator and/or related equipment operator. There is a strong emphasis on hands-on skills and mastery of competencies. Course content is delivered through lecture, demonstration, and on-the-job training. Prerequisite: AEB V035, AEB V038, AEB V042.

**AEB V037 Swamp Meister Operations (Drow Excavator) (0)****200 hours**

This course teaches the fundamental knowledge required for initial employment as a Swamp Meister Operator and/or related equipment operator. There is a strong emphasis on hands-on skills and mastery of competencies. Course content is delivered through lecture, demonstration, and on-the-job training. Prerequisite: AEB V035, AEB V038, AEB V042.

**AEB V039 Fork Lift Operations (0)****20 hours**

This course teaches the fundamental knowledge required for initial employment as a Fork Lift Operator. There is a strong emphasis on hands-on skills and mastery of competencies. Course content is delivered through lecture, demonstration, and on-the-job training. Prerequisite: AEB V035, AEB V038, AEB V042.

- AEB V038 Public Works Operations I (Tractor Trailer Operator) (O)** **120 hours**  
 This course teaches the fundamental knowledge required for initial employment as a Tractor Trailer Operator. There is a strong emphasis on hands-on skills and mastery of competencies. Course content is delivered through lecture, demonstration, and on-the-job training.
- AEB V040 Box Blade Operations (O)** **60 hours**  
 This course teaches the fundamental knowledge required for initial employment as a Box Blade Operator. Strong emphasis is placed on hands-on skills and mastery of competencies. Course content is delivered through lecture, demonstration, and on-the-job training. Prerequisite: AEB V035, AEB V038, AEB V042.
- AEB V041 Computerized Sign Layout (O)** **50 hours**  
 This course teaches the fundamental knowledge needed in the computerized layout of traffic and road signs for those employed in Public Works. There is a strong emphasis on hands-on skills and mastery of competencies. Course content is delivered through lecture, demonstration, and on-the-job training. Prerequisite: AEB V035, AEB V038, AEB V042.
- AEB V042 Dump Truck Operations (O)** **90 hours**  
 This course teaches the fundamental knowledge required for initial employment as a Dump Truck Operator. There is a strong emphasis on hands-on skills and mastery of competencies. Course content is delivered through lecture, demonstration, and on-the-job training. Prerequisite: AEB V038.
- AEB V043 Mulcher Mower Operations (O)** **100 hours**  
 This course teaches the fundamental knowledge required for initial employment as a Mulcher Mower Operator. There is a strong emphasis on hands-on skills and mastery of competencies. Course content is delivered through lecture, demonstration, and on-the-job training. Prerequisite: AEB V035, AEB V038, AEB V042.

## HISTORY

- AFA 2000 Afro-American Studies (P)** **3 credits**  
 This course develops an appreciation for the role of African-Americans in the development of American society. The course traces the history of African-Americans from the days of African civilizations and chiefdoms to America. Current issues and their effects on African-Americans are discussed.
- AMH 2010 American History: Discovery through Reconstruction (P)** **3 credits**  
 This course examines the political, economic, social, cultural, and intellectual development of the United States from the discovery of the Americas through Reconstruction. Prerequisite: Student must score into college-level English and reading on placement test.
- AMH 2020 American History: Reconstruction to the Present (P)** **3 credits**  
 This course examines the political, economic, social, cultural, and intellectual development of the United States from Reconstruction to the present. Prerequisite: Student must score into college-level English and reading on placement test.
- AMH 1070 History of Florida (P)** **3 credits**  
 This course teaches Florida's unique history from the pre-Columbian period to the 21<sup>st</sup> century. Topics to be covered include Florida's changing environment; Florida's pre-Columbian period; the two Spanish periods; the British period; Florida in the 19<sup>th</sup> century including the Seminole Wars and the Civil War; Florida in the 20<sup>th</sup> century including both World Wars, the Cold War, and Florida's development into a modern state.
- ASN 1010 Introduction to East Asia (P)** **3 credits**  
 This course teaches comparative East Asian civilization and culture examining the contributions of China, Japan, Korea, Mongolia, and Tibet. Topics include history, geography, anthropology, religion, science and technology, economy, and politics of East Asia from ancient to early modern times. Prerequisite: student must score into college-level English and reading on placement test.

- HUS 1318 Domestic Abuse and Family Violence** **3 credits**  
This course teaches human and social services workers the evaluation as well as the outreach skills necessary for working in the field of domestic violence. The dynamics of partner violence, child abuse, elder abuse, and sibling violence are explored.
- HUS 1400 Introduction to Drugs of Abuse** **3 credits**  
This course teaches the dynamics of drug addiction and dependence, classification and origins of drugs, short and long-term effects, risk of dependence, and medical uses. Drug education, laws, treatment, and rehabilitation are additional areas of focus.
- HUS 2301 Counseling Techniques** **3 credits**  
This course teaches students to develop individual, group, and family coping skills to prepare for roles as paraprofessionals in the human services field. Theoretical, ethical, and practical issues of counseling are addressed and skill development is encouraged through role-playing.
- HUS 2111 Introduction to Interpersonal Behavior** **3 credits**  
This course teaches the student the fundamental skills of interpersonal communication. Various theories of mental health are examined and the dynamics of both normal as well as dysfunctional interactions are explored.
- HUS 2302 Techniques of Interviewing and Intervention** **3 credits**  
This course teaches the basic techniques and theories of interviewing and evaluation. Students participate in classroom skill-building exercises. Special attention is given to crisis theory and intervention.
- HUS 2401 Substance Abuse and Treatment** **3 credits**  
This course teaches theories of substance abuse and treatment. Causes of addiction including biological and environmental influences are explored. Emphasis is placed on understanding the dynamics of successful treatment.
- HUS 1430 Drug Awareness and Education (0)** **1 credit**  
This course provides information regarding drugs and their effects, as well as skill development for resistance of drug abuse tendencies. Prerequisite: permission of instructor.
- HUS 2500 Introduction to Ethics in Human Services** **3 credits**  
This course teaches ethical decision making in the human services arena. It explores professional and legal standards such as confidentiality, privileged communication, candor and informed consent, competence, loyalty, diligence, fairness, and due care. It addresses moral issues including multicultural counseling, dual role relationships, suspected child abuse, third party harm, suicide, paternalism, and involuntary commitment.
- HUS 2820 Internship in Human Services** **4 credits**  
This course teaches on-the-job experience wherein students are given the opportunity to strengthen and further develop expertise in the Human Services field. Prerequisite: HUS 1200, HUS 2302, HUS 2500, HUS 2401, SYG 1430, CLP 2140 and permission of instructor.
- HUS 3300 Humanistic and Existential Counseling Theory (U)** **3 credits**  
This course explores the theories and techniques of humanistic and existential approaches. Primary focus is on application of techniques. Prerequisite: HUS 1200, HUS 2301.
- HUS 3409 Addictive Experiences (U)** **3 credits**  
This course examines theories and techniques of addiction and their application to drugs, sex, gambling, eating and the Internet. Practical exercises include in-class application of techniques and treatment regimes in simulated scenarios. The class also examines nonaddictive and addictive lifestyles.
- HUS 3650 Administration in Human Services (U)** **3 credits**  
This course examines planning, evaluation, management, fund raising, community relations, and other activities that affect the operation of a human service agency. Prerequisite: HUS 1001.

- HUS 3314 Cognitive and Behavioral Theory (U) 3 credits**  
This course explores the theories and techniques of cognitive-behavioral and behavioral therapy. In-class simulated scenarios are used to promote understanding of practical application of the theories. Prerequisite: HUS 2301, HUS 1200.
- HUS 3360 Sexual Abuse of Children and Adolescents (U) 3 credits**  
This course teaches human and social service workers the interviewing, evaluation, assessment, and networking skills necessary for working effectively with child abuse victims. Videos and movies are used to illustrate techniques and strategies for interviewing abused children. Individual projects involving creation of comprehensive prevention of sexual abuse programs are included. Prerequisite: HUS 2302.
- HUS 3340 Trauma and Post-Traumatic Stress Disorder (U) 3 credits**  
This course explores the various causes of PTSD including child abuse, war, and domestic violence. Focus includes the development of interviewing, evaluation, and networking skills necessary for working effectively with clients who have suffered traumas. The course also examines the connection between PTSD and substance abuse. Prerequisite: CLP 2140, HUS 2302.
- MHS 3460 Crisis Intervention (U) 3 credits**  
This course examines and identifies the stages of crisis response, types of crises, and techniques of crisis intervention. Focus includes examination of the psychological and physical responses to crisis situations, identification of at risk individuals, and prevention of crises. Prerequisite: HUS 1001, HUS 2302.
- HUS 3350 Issues in Domestic Abuse and Family Violence (U) 3 credits**  
This course explores theories explaining familial abuse and teaches evaluation and outreach skills. The dynamics of partner violence, child abuse, elder abuse, and sibling violence are examined. Legal issues related to family violence are also addressed.
- HUS 3351 Family Systems and Dynamics (U) 3 credits**  
This course provides an overview of family systems theories and the roles of family members in traditional and non-traditional families. The theoretical bases for family therapy modalities are described. Role playing and skill-building exercises allow for practical application of techniques.
- HUS 4416 Issues in Impulse Control (U) 3 credits**  
This course explores the dynamics of both eating disorders and gambling and their relation to impulse control. Causal models, prevention, and treatment approaches are also explored.
- HUS 4352 Family Diversity in Human Services (U) 3 credits**  
This course explores how social, cultural, religious, ethnic, disability, and gender related factors influence family structure and dynamics. Theories, techniques, and strategies for evaluation, treatment, program planning, and intervention are examined.
- HUS 4442 Addictions Family Counseling (U) 3 credits**  
This course explores a variety of theories and approaches relevant to the treatment of families affected by alcohol or drug abuse. Focus includes family roles, family diversity, parental substance abuse, and child and adolescent substance abuse.
- HUS 4462 Gender Issues in Treatment and Recovery (U) 3 credits**  
This course examines how differences in socialization of males and females can affect substance abuse. Gender related issues that may impact treatment such as domestic abuse, depression, sexual abuse and gender scripting are explored.
- HUS 4361 High Risk and Offender Youth (U) 3 credits**  
This course examines theories and approaches to working with high risk and offender youth who are experiencing problems related to violence, sexually transmitted diseases, alcohol, drugs, teen pregnancy, and truancy. Emphasis is on the role of family, community, culture, and human services related resources. Both prevention and remediation are addressed.

- HUS 4410 Internet Addictions (U)** **3 credits**  
This course explores the dynamics of Internet addiction. Focus includes identifying issues related to diagnosis and treatment of this emerging problem. Various types of Internet addiction are explored including online gambling, online affairs, and pornography.
- HUS 4574 Issues of Aging and Family Dynamics (U)** **3 credits**  
This course examines how factors such as health, finances, and social roles affect the elderly and influence familial role changes and independence. A holistic approach to the overall well-being of the elderly in particular and the family unit in general is presented.
- HUS 4319 Introduction to Play Therapy (U)** **3 credits**  
This course explores theoretical bases for play therapy. Basic elements of play therapy including the role of the play therapist and indications for using play therapy are examined. An experiential component includes live observation of local professionals and videotaped therapists performing play therapy.
- HUS 4407 Substance Abuse and Aging (U)** **3 credits**  
This course provides an overview of the problem of substance abuse in the aging population. Abuses of prescription medicines, alcohol, and illegal drugs are examined. Issues related to lack of independence, mobility, depression, and bereavement are also discussed.
- HUS 4364 Youth, Drugs, and Gangs (U)** **3 credits**  
This course examines the reasons youth join gangs and the connections between substance abuse, child abuse, and violence. Focus includes prevention and intervention strategies and techniques including outreach.
- HUS 4945 Capstone - Advanced Internship in Human Services (U)** **6 credits**  
This course provides on-the-job experience wherein students are given the opportunity to strengthen and further develop expertise in the Human Services field. Prerequisite: MHS 3460, HUS 3300, HUS 3314, with a grade of "C" or higher; HUS 3340, HUS 3360, HUS 3650, HUS 2301, HUS 2500, CLP 2140, HUS 2302, and permission of Department Chair.
- PPE 2001 Person and Personality Development** **3 credits**  
This course teaches the major theories of personality development. The major theorists include Freud, Erikson, Jung, Adler, Laing, Fromm, Maslow, Skinner, Rogers, and Ellis. Objectives include exploration of the ways the approaches explain anxiety, creativity, happiness, and love.
- SYG 1430 Family Relations (P)** **3 credits**  
This course teaches a variety of topics including: the nature and functions of marriage, marital problems, parenting, step-families, conflict resolution, divorce, and remarriage.

## **INSURANCE**

- RMI 1090 Customer Service Representative (O)** **3 credits**  
This course teaches the knowledge and is skills necessary to be proficient in understanding property and casualty, legal, operational, and customer-focused practices. Upon successful completion of this course, students are awarded a Customer Services Representatives State License.
- RMI 1631 Accredited Claims Adjuster (ACA) (O)** **3 credits**  
This course teaches the required information to become a licensed Accredited Claims Adjuster with the State of Florida. Upon successful completion of this course, the ACA candidate must apply to the State of Florida for the actual ACA license. This course may be taken in lieu of a state exam for the ACA candidate.
- RMI 1930 4-40 to 2-20 Conversion Course (O)** **3 credits**  
This course teaches a Licensed Customer Service Representative needed information to take the State's General Agent License Exam (2-20). Prerequisite: must have a 4-40 license for one year.

- RMI 2500 Individual Life and Health Insurance (0)** **3 credits**  
The role of life and health insurance in meeting economic security needs, types of individual and special life annuity contracts, individual health insurance contracts including disability and medical expense insurance as related to premiums, reserves, non-forfeiture values, surplus, and dividends are covered.
- RMI 2600 Property and Casualty Insurance (0)** **12 credits**  
This is a course for students interested in obtaining a state of Florida Property and Casualty sales license. This is the state required "220" pre-licensing class. Topics include auto, fire, liability, property, workman's compensation, security bonds, and other casualty insurance topics.
- The following courses have been approved by the Florida Department of Insurance for Insurance Continuing Education credit:**
- RMI P000 Business Insurance Concepts (0)** **8 hours**  
This course teaches business insurance concepts, business structures, and ownership transfer. The course is approved by the State of Florida Department of Insurance for continuing education for "life only". Completion of this course partially fulfills the required 24 hours of bi-annual continuing education.
- RMI P002 Customer Service (0)** **5 hours**  
This course teaches customer service in the insurance industry. The course is approved by the State of Florida Department of Insurance for continuing education for all lines. Completion of this course partially fulfills the required 24 hours of bi-annual continuing education.
- RMI P004 Estate Planning Concepts for the Business Professional (0)** **8 hours**  
This course teaches estate planning concepts for the business professional. The course is approved by the State of Florida Department of Insurance for continuing education for "life only". Completion of this course partially fulfills the required 24 hours of bi-annual continuing education.
- RMI P005 Life, Annuities & Disability Insurance (0)** **8 hours**  
This course teaches life insurance, qualified & non-qualified annuities & disability insurance. The course is approved by the State of Florida Department of Insurance for continuing education for "life only". Completion of this course partially fulfills the required 24 hours of bi-annual continuing education.
- RMI P006 Ethics (0)** **3 hours**  
This course teaches ethics in the insurance industry, and is approved by the State of Florida Department of Insurance for continuing education for all lines. Completion of this course partially fulfills the required 24 hours of bi-annual continuing education.
- RMI P007 Ethics & the Insurance Producer & Unauthorized Entities (0)** **6 hours**  
This course teaches ethics (3 hours) and additional generic topics (3 hours). It meets specifications for continuing education for all licenses in the insurance field in the State of Florida. Completion of this course partially fulfills the required 24 hours of bi-annual continuing education. Prerequisite: must be employed in the insurance field.
- RMI P990 Business Automotive Insurance (0)** **7 hours**  
This course is approved by the State of Florida Department of Insurance for continuing education credit for Property/Casualty insurance agents. Topics include no-fault insurance fundamentals, uninsured motorists coverage, under-insured coverage, driving other car coverage, garage keepers endorsements, and the Florida Automobile Repairs Reform Act. This course partially fulfills the bi-annual continuing education requirement of eight hours for agents licensed less than six years and of 20 hours for agents licensed for more than six years.

**RMI P111 Exposure to Liability Losses (O)****8 hours**

This course teaches the knowledge and skills that can improve job performance for personal and commercial lines producers. Learning throughout the course should focus on response to, and examples of coverage, by using questions designed to probe for thought based on the scenario provided with the syllabus. Instructors should supplement the scenario with personal experience and the input of student experience in teaching. It is assumed that the student has a basic understanding of liability concepts. Prerequisite: must be employed in the insurance field.

**RMI P008 Regulation & Legal Aspects of Life Insurance (O)****7 hours**

This course teaches the legalities of a life insurance contract and focuses on the basic principles of the insurance contract and insurable interest. Legal aspects, basic principles and unique principles of a contract are covered, along with the regulations of insurance companies and agents, including laws and regulations, regulatory bodies and the specific laws and rules in Florida. This course satisfies seven hours of state mandated continuing education required for licensed insurance agents. Prerequisite: must be employed in the insurance field.

**RMI P009 Legal Foundations of Liability Underwriting (O)****4 hours**

This course teaches the concepts of foundations of legal liability. Learning focuses on responses and examples by using questions and scenarios designed to probe for thought. Instructors use personal experiences and that of the students in teaching. This course satisfies four hours of state mandated continuing education required for licensed insurance agents. Prerequisite: must be employed in the insurance field.

**RMI P010 Commercial Insurance (O)****7 hours**

This course teaches specific commercial business insurance policies used in everyday business operations, with a focus on examples of coverage, purpose and implementation of coverage needed by businesses. Students should have a basic understanding of commercial insurance lines. This course satisfies seven hours of state mandated continuing education required for licensed insurance agents. Prerequisite: must be employed in the insurance field.

**RMI P103 Personal and Business Needs Analysis (O)****8 hours**

This course was approved by the State of Florida Department of Insurance for continuing education credit for Life Only insurance agents. Topics include fact finding topics and approaches to collect data upon which recommendations can be made to provide needs analysis for personal and business clients. This course partially fulfills the bi-annual continuing education requirement of 24 hours for agents licensed less than six years and of 20 hours for agents licensed for more than six years.

**RMI P011 Commercial Bonds (O)****7 hours**

This course teaches the difference between insurance and bonds as well as different types of bonds. Types of policies, scope of coverage and exclusions are some of the areas covered concerning liquor law liability, jeweler's block and garage coverage form. This course satisfies seven hours of state mandated continuing education required for licensed insurance agents. Prerequisite: must be employed in the insurance field.

**RMI P110 Ethics and the Producer (O)****3 hours**

This course teaches a review of the concepts of ethics and their application to an insurance professional. Learning should focus on responses and examples, by using questions and scenarios designed to probe for thought. Instructors should use personal experiences and that of the students in teaching. Prerequisite: must be employed in the insurance field.

**RMI P135 Group Life and Health Insurance (O)****7 hours**

This course meets specifications for continuing education in life and health insurance in the State of Florida. Completion of this course partially fulfills the bi-annual requirements of 24 hours of continuing education for agents licensed less than six years and of 20 hours for agents licensed for more than six years.



- RMI P112 Hurricane Loss Mitigation (O) 3 hours**  
This course teaches how the agent can advise their insureds regarding actions that can be taken to mitigate hurricane damage. Learning should concentrate on “round table” style of presentation, and simulating discussion by using questions and scenarios designed to probe for thought. Instructors should use personal experiences and that of the students in teaching. Prerequisite: must be employed in the insurance field.
- RMI P651 Personal Auto/Umbrella Coverage (O) 7 hours**  
This course meets state specifications for continuing education in property and casualty in the State of Florida. Completion of this course partially fulfills the bi-annual requirements of 24 hours of continuing education for agents licensed less than six years and of 20 hours for agents licensed for more than six years.
- RMI P930 Long Term Care (O) 4 hours**  
This course is approved by the State of Florida Department of Insurance for continuing education toward Health Insurance for Life/Health and Property/Casualty licensed agents. Topics include a look at the Long Term Care market, the impact of Medicaid, 1996 Health Care Reform, the long term care policy and underwriting considerations. This course partially fulfills the bi-annual continuing education requirement of 24 hours for agents licensed less than six years and of 20 hours of agents licensed for more than six years.
- RMI P665 Rules and Regulations (O) 2 hours**  
This course meets state specifications for continuing education in property and casualty insurance or life and health insurance for the required 2 hour portion of “Rules and Regulations”. Completion of this course partially fulfills the required 24 hours of bi-annual continuing education.
- RMI P666 Rules and Regulations II (O) 2 hours**  
This course meets the two hour state requirement for insurance continuing education under the required topic “Rules and Regulations.” Insurance agents with either Life and Health or Property and Casualty licenses must take this course every two years as a part of their 24 hours of bi-annual requirement.
- RMI P667 Rules and Regulations III (O) 2 hours**  
This course meets the two hour state requirement for insurance continuing education under the required topic “Rules and Regulations.” Insurance agents with either Life and Health or Property and Casualty licenses must take this course every two years (beginning 1995) as a part of their 24 hours of bi-annual requirement.
- RMI P805 Wills, Trusts and Estate Planning (O) 4 hours**  
This course is approved by the State of Florida Department of Insurance for continuing education credit for Life/Health licensed agents. The topics of wills, trusts and estate planning are covered at an intermediate level. This course partially fulfills the bi-annual continuing education requirement of 24 hours for agents licensed less than six years and of 20 hours for agents licensed for more than six years.
- RMI P806 Wills and Trusts (O) 4 hours**  
This course was approved by the State of Florida Department of Insurance for continuing education credit in Life and Health insurance for licensed agents. Topics include statutory provisions, procedural considerations, and taxes. This course partially fulfills the required 24 hours of bi-annual continuing education.
- RMI P807 Annuities and Qualified Plans (O) 4 hours**  
This course was approved by the State of Florida Department of Insurance for continuing education credit in Life and Health insurance for licensed agents. Topics include annuities, IRA's, distribution rules, payouts, and the statutes. This course partially fulfills the required 24 hours of bi-annual continuing education.

- RMI P994 Financial Record Keeping (O) 7 hours**  
This course is approved by the State of Florida Department of Insurance for continuing education credit for Life/Health and/or Property/Casualty insurance agents. Topics include the rationale for good record keeping, the accounting system, accumulating financial information, and financial documents. This course partially fulfills the bi-annual continuing education requirement of 24 hours for agents licensed less than six years and of 20 hours for agents licensed for more than six years.
- RMI P932 Business Disability Income (O) 3 hours**  
This course teaches Business Disability Income continuing education only in health insurance to meet state specifications. Singly licensed General Lines Agents may take up to half of their property and casualty in continuing education hours in "Health Only". Completion of this course partially fulfills the required 24 hours of bi-annual continuing education.
- RMI P933 Current Health Industries Trends (O) 4 hours**  
This course teaches Current Health Industry Trends continuing education only in health insurance to meet state specifications. Singly licensed General Lines Agents may take up to half of their property and casualty in continuing education hours in "Health Only". Completion of this course partially fulfills the required 24 hours of bi-annual continuing education.
- RMI P934 Social Security, Medicare and Medigap Policies (O) 4 hours**  
This course teaches Social Security, Medicare and Medigap policies continuing education only in health insurance to meet state specifications. Singly licensed General Lines Agents may take up to half of their property and casualty in continuing education hours in "Health Only". Completion of this course partially fulfills the required 24 hours of bi-annual continuing education.
- RMI P935 Understanding Disability Income (O) 4 hours**  
This course teaches Understanding Disability Income continuing education only in health insurance to meet state specifications. Singly licensed General Lines Agents may take up to half of their property and casualty in continuing education hours in "Health Only". Completion of this course partially fulfills the required 24 hours of bi-annual continuing education.
- RMI P936 Unauthorized Entities (O) 2 hours**  
This course meets the two-hour state requirement for insurance continuing education under the heading of "Unauthorized Entities." Insurance agents with either Life and Health or Property and Casualty licenses must take this course every two years as part of their hourly continuing education requirements.
- RMI P992 CGL/Workers Compensation (O) 7 hours**  
This course is approved by the State of Florida Department of Insurance for continuing education credit for Property/Casualty insurance agents. Topics include the structure of commercial general liability (CGL) policies, occurrences, claims, limits of insurance, the insured, coverages and conditions. Also explored is the nature of workers compensation laws, employer liability, and endorsements. This course partially fulfills the bi-annual continuing education requirement of 24 hours for agents licensed less than six years and of 20 hours for agents licensed for more than six years.
- RMI P991 Financial Assessment of Business Performance (O) 7 hours**  
This course is approved by the State of Florida Department of Insurance for continuing education credit for Life/Health and/or Property/Casualty insurance agents. Topics include reasons for conducting financial assessments and analysis of business performance ratios. This course partially fulfills the bi-annual continuing education requirement of 24 hours for agents licensed less than six years and of 20 hours for agents licensed for more than six years.

**RMI P995 Ethics/Errors and Omission (O)** 2 hours  
 This course teaches about ethics as it relates to selling practices of agents, the company, other agents, and the community. It teaches about exposure and sources of liability for agents and companies, and how to manage the risk, and error and omissions exposure. It covers Error and Omission policy details and the areas of concern.

### INTERDISCIPLINARY STUDIES

**IDS 2930 Special Issues in Arts and Sciences (P)** 3 credits  
 This course teaches specialized information on topics in the Social Sciences, Natural Sciences, Mathematics, Communications or Humanities. These topics are explored in workshop type classes.

**ISC 2931 Web Content Development (P)** 3 credits  
 This course teaches skills to assist educators in developing learning resources and content in the sciences and in mathematics for use in a web-based learning environment for both students and fellow teachers.

**IDS 1110 The Pursuit of Knowledge (P)\*** 3 credits  
 This course teaches the nature of knowledge acquisition throughout the liberal arts curriculum. The course is taught by a team of Honors Faculty drawn from the Humanities, the Social Sciences, and the Natural Sciences/Mathematics. The fundamental goal of the course is to help students appreciate the interconnectedness of knowledge across the entire range of academic disciplines. Students demonstrate college-level writing skills through multiple assignments. Required as an orientation course for all students entering the Honors Program. Prerequisite: Student must be accepted into the Honors Program.

**IDS 1955 Interdisciplinary Study Abroad (P)\*** 3 credits  
 This course teaches a variety of comprehensive, interdisciplinary perspectives in subject fields such as psychology, literature, philosophy, art, history or education. This course enhances student knowledge in these fields through study abroad. Students demonstrate college-level writing skills through multiple assignments. Prerequisite: Student must be in college-level English and reading on placement test.

**IDS 3956 Interdisciplinary Study Abroad (U)** 3 credits  
 This course teaches a variety of comprehensive, interdisciplinary perspectives in subject fields such as psychology, literature, philosophy, art, history, Sociology or education. This course enhances student knowledge in these field through study abroad. Prerequisite: minimum of A.A. degree, permission of instructor required.

### INTERIOR DESIGN

**IND 1015 Residential Interior Design (O)** 3 credits  
 This course presents Residential Interior Design using creative problem solving. Elements and principles of design are reviewed and applied with emphasis on graphic skills and presentation techniques, including orthographic projection and scale variations.

**IND 1020 Principles of Interior Design** 3 credits  
 This course is an overview of the professional field of Interior Design. All phases of interior design are introduced with career requirements and opportunities stressed.

**IND 1301 Interior Design Graphics (O)** 3 credits  
 This course teaches basic graphic presentation techniques, including freehand sketch, floorplans, perspective, and materials boards. Pencil, pen/ink, and electronic media are used.

**CTE 1401 Introduction to Textiles** 3 credits  
 This course covers the generic textile families, fibers, methods of fabric construction, finishes, and government textile regulations. Textile merchandise in the fields of Fashion Marketing and Interior Design is studied with emphasis placed on textile product knowledge.

\*GORDON RULE COURSE - must achieve a grade of "C" or higher for the A.A. Degree.

- IND 1432 Lighting for Interior Design (0)** **2 credits**  
This course provides an introduction to the fundamentals of residential, commercial, and landscape lighting.
- IND 1401 Technical Design I (0)** **2 credits**  
This course teaches the basic technical aspects of interior design. Emphasis is on drafting and creation of drawing types, visualizations and other essential technical systems used in the interior design profession. Work is completed by hand using a drafting table and on the computer. Appropriate uses of tools and materials are stressed.
- IND 1462 Introduction to Architectural CAD (0)** **3 credits**  
This course is an introduction to CAD focusing on using the computer as a drafting and design tool. AutoCAD software is used; focus is architectural/interior design. Basic CAD drafting, 3dimension viewing, detail drawings, and creation of templates and symbols are covered.
- IND 1935 Building Codes and Barrier Free (0)** **3 credits**  
This course teaches contract documents and building interior systems that apply to the interior environment. It examines standards relating to safety, building codes, barrier free and material/construction testing.
- IND 2100 History of Interiors I** **3 credits**  
This course gives a survey of historic interiors from the early American periods through contemporary interior design. Current trends in interior furnishings are examined.
- IND 1134 History of Interiors II (0)** **3 credits**  
This course is a study of the historical periods of architecture, furniture, and interiors. Emphasis is on style recognition and application to the present.
- IND 1423 Survey of Materials and Resources (0)** **1 credit**  
This course provides the student with market information regarding materials and sources used in the field of interior design. On-site visits are required.
- IND 2016 Commercial Interior Design I (0)** **3 credits**  
This course presents the design processes used in commercial interiors. Space planning, human factors, technical issues, furniture and material selection, budgets, code requirements, and presentation techniques are reviewed. The course is project-oriented and includes tours of commercial installations.
- IND 2420 Materials and Sources of Interior Design (0)** **3 credits**  
This course covers the non-textile construction materials of interior design. Wood, plastic, stone, masonry, glass, paint, wallcoverings, and marble are a few of the materials studied. Also studied are appliances and bathroom fixtures. Applications of materials are covered and specifications recommended by professional trade associations are reviewed. The completion of a vendor resource file and a visit to a design center are integral parts of the course.
- IND 2910 Kitchen and Bath Design I (0)** **3 credits**  
This course teaches basic residential kitchen design. The National Kitchen and Bath Association design principles are presented. Students complete a kitchen design project including programming, space planning, mechanical systems and product selection. Industry Standard CAD software is used. Students need drafting ability and computer skills.
- IND 2911 Kitchen and Bath Design II (0)** **2 credits**  
This course teaches advanced kitchen design. After a review of basic principles of kitchen design, advanced techniques are presented. National Kitchen and Bath Association guidelines are stressed. Students complete kitchen design projects using industry standard CAD program. Students need drafting ability and computer skills.
- IND 2940 Interior Design Practicum I (0)** **4 credits**  
This course is a practical application in an interior design business situation of knowledge acquired in the classroom. Business principles and practices, promotional techniques, and career development are practicum topics.

**IND 1019 Commercial Interior Design II (O) 3 credits**

This course teaches Commercial Interior Design using a project approach.

**IND 2941 Interior Design Practicum II (O) 4 credits**

This course is a practical application in an interior design business situation of knowledge acquired in the classroom. The student increases proficiency in the field by benefiting from on-the-job experiences. Prerequisite: IND 2940.

**IND 2942 Interior Design Practicum III (O) 4 credits**

This course provides a practical application of interior design principles in an interior design business situation. The student increases proficiency in the field and moves toward employment in the interior design industry. Topics for this practicum rotate through a two year cycle. Prerequisite: IND 2941.

**IND 2500 Interior Design Business Practices (O) 3 credits**

This course presents specialized information on establishing and maintaining a successful interior design business.

**IND 2209 Designing for the Aging Client (O) 1 credit**

This course teaches interior design concepts that when applied, allow an aging client to remain in their personal residence as long as possible. Established, national design guidelines are presented; a case study approach is used.

**IND 2931 Special Topics in Interior Design (O) ½ - 5 credits**

This course teaches interior design technology topics of current interest. Main areas of study include technical updates of CAD software and exploration of newly developed interior design technology specific to licensed, professional interior designers including kitchen and bath designers.

**LANDSCAPE TECHNOLOGY****AGR 1540C Fundamental Principles of Arboriculture (O) 3 credits**

This course teaches the fundamental principles of arboriculture (tree care). Topics include tree biology, tree identification, tree selection, pruning, nutrition and fertilization.

**AGR 1930 Special Topics in Arboriculture (O) 1 credits**

This course examines the current topics in the field of arboriculture (tree care).

**LDE 2403 Advanced Landscape Design (O) 3 credits**

This course teaches landscape design, emphasizing motifs and the more advanced elements in landscape. Prerequisite: ORH 2859.

**ORH 2941 Landscape Field Training (O) 3 - 6 credits**

This course teaches landscape operations through on-the-job supervised training at selected sites. Permission of the instructor is required.

**MATHEMATICS****MAT 0012 Pre-Algebra\* 3 credits**

This course helps students make the transition from arithmetic to algebra. Algebra concepts (variables, signed number, order of operations, and equations) are introduced early and then repeated with traditional arithmetic concepts (fractions, decimals, and percent). Prerequisite: Placement scores.

**MAT 0024 Introductory Algebra\* 3 credits**

This course prepares students for MAT 1033. Major topics include properties of integers and rational numbers, integer exponents, simple linear equations and inequalities, operations on polynomials including beginning techniques of factoring, introduction to graphing, and introduction to operations on rational expressions. Prerequisite: MAT 0012 with a grade of "C" or higher, or placement scores.

\*College preparatory. Credit not applied toward degree. In addition to classroom time, this course requires two (2) hours per week in the Academic Support Center.

**MAT 1033 Intermediate Algebra (P)****3 credits**

This course covers the following topics: factoring, algebraic fractions, radical and rational equations, complex numbers, quadratic equations, rational equations, linear equations, and inequalities in two variables and their graphs, systems of linear equations and inequalities, and introduction to functions. Prerequisite: MAT 0024 with a grade of "C" or higher, or placement scores.

**MAC 1105 College Algebra (P)\*****3 credits**

This course covers the following topics: functions and functional notation, domain and ranges of functions, graphs of functions and relations, operations on functions, inverse functions, polynomial and rational functions, absolute value and radical functions, exponential and logarithmic properties, functions, and equations; and systems of equations and inequalities. A graphics calculator is required for this course. Prerequisite: MAT 1033 with a grade of "C" or better, or placement scores.

**MAC 1140 Precalculus Algebra (P)\*****3 credits**

This course is required for students who need calculus. Topics in this course include polynomial, rational, exponential and logarithmic functions with their properties and graphs, polynomial and rational inequalities, conic sections, matrices and determinants, sequences and series, mathematical induction, and Binomial theorem and application. A graphics calculator is required for this course. Prerequisite: MAC 1105 with a grade of "C" or higher, or placement scores.

**MAC 1114 Plane Trigonometry (P)\*****3 credits**

This covers the following topics: trigonometric and inverse trigonometric functions with their properties and graphs, trigonometric identities, conditional trigonometric equations, solutions of triangles, vector algebra, parametric equations, polar coordinates, and applications. This course requires a graphic calculator. Prerequisite: MAC 1105 with a grade of "C" or higher, or placement scores.

**MAC 2311 Calculus I with Analytic Geometry (P)****5 credits**

This course is for students who need calculus for engineering, math, and science programs. Major topics include limits, differentiation of algebraic, exponential, logarithmic, and trigonometric functions; and applications of derivatives. The definite integral is developed, and its applications are investigated. Offered Fall, Spring, and Summer, spanning both summer sessions. Prerequisite: MAC 1114, MAC 1140 with a grade of "C" or higher, or placement scores. A graphics calculator is required.

**MAC 2312 Calculus II (P)\*****4 credits**

This course includes techniques of integration; applications of integration including arc length, volume, and work; polar coordinates, indeterminate forms, improper integrals, sequences, and series. Offered in Fall and Spring only. Prerequisite: MAC 2311. Recommended Corequisite: MAS 2103 for students who will take Calculus III.

**MAC 2313 Calculus III (P)\*****5 credits**

This course includes calculus of several variables including limits, partial derivatives, multiple integrals, vector functions, line integrals, cylindrical, and spherical coordinates. Prerequisite: MAC 2312.

**MAC 2233 Business Calculus I (P)\*****3 credits**

This course is for business students. Major topics include limits, differentiation and integration of algebraic functions, exponential and logarithmic functions, areas, and applications of the preceding topics to problems in business. Prerequisite: MAC 1105 with a grade of "C" or higher, or placement scores.

\*GORDON RULE COURSE - must achieve a grade of "C" or higher for the A.A. and A.S. Degree.

- MAC 2234 Business Calculus II (P)\*** **3 credits**  
 This course teaches integral calculus, techniques of integration, multivariable calculus, differential equations, sequences and series, systems of equations, matrices, linear programming, with applications to business, economics, geometry, and the social and physical sciences. Prerequisite: MAC 1105 with a grade of "C" or higher, or placement scores.
- MAD 2104 Discrete Mathematics (P)\*** **3 credits**  
 This course teaches the following topics: sets, functions, relations, combinatorial, propositional logic, graphs and trees, and applications. Prerequisite: MAC 1105 with a grade of "C" or higher.
- MAS 2103 Linear Algebra (P)\*** **3 credits**  
 This course includes systems of linear equations, matrices, linear transformations, determinants, eigenvalues spectral theorem, and geometric applications of vectors. Prerequisite: MAC 2311 and student must score into college-level reading on placement test. Prerequisite/ Corequisite: MAC 2312.
- MTG 2204 Elementary Geometry (P)\*** **3 credits**  
 This course presents the content of elementary geometry. Topics include lines and angle relationships, properties of parallel lines, congruency and similarity in triangles, types of quadrilaterals, area, volumes, and properties of circles. Methods of proof using logic principles and compass and straight-edge construction are emphasized throughout. Prerequisite: MAT 1033 with a grade of "C" or higher, or placement scores.
- STA 2023 Elementary Statistics I (P)\*** **3 credits**  
 This course includes measures of central tendency and variability, probability, random variables, normal and binomial distributions, confidence intervals, tests of hypotheses, correlation and simple linear regression, descriptive and inferential techniques and concepts which apply to sample data which has been gathered from a population. Prerequisite: MAT 1033 with a grade of "C" or higher (MAC 1105 is recommended), or placement scores.
- MGF 2106 Mathematics for Liberal Arts I (P)\*** **3 credits**  
 This course includes logic, geometry, probability and counting principles, descriptive statistics, sets and Venn diagrams, reasoning patterns, and a history of mathematics. The purpose of MGF 2106 is to present the utility of mathematics to students who do not intend to take other mathematics courses. MGF 2106 is not open to students with credit in MGF 2202. Prerequisite: MAT 1033 with a grade of "C" or higher or placement scores.
- MGF 2107 Mathematics for Liberal Arts II (P)\*** **3 credits**  
 This course includes topics from financial mathematics, linear and exponential growth, decay numbers and number systems, elementary number theory, right triangle trigonometry, and a history of mathematics. The purpose of MGF 2107 is to present the utility of mathematics to students who do not intend to take other mathematics courses. Prerequisite: MAT 1033 with a grade of "C" or higher or placement scores.
- MAP 2302 Differential Equations (P)\*** **3 credits**  
 This course includes solutions of first order differential equations and applications, solutions of second order linear differential equations and applications, series solutions, numerical methods, and the Laplace transform. Prerequisite: MAC 2312.
- SLS 1533 Taking Control of Math Anxiety (P)** **1 credit**  
 This course assists students in confronting, understanding, and overcoming their math anxiety while learning good math study skills, relevant math applications, and the use of concrete math manipulatives.

\*GORDON RULE COURSE - must achieve a grade of "C" or higher for the A.A and A.S. Degree.

- MAE 1802 Basic Mathematics for Educators (P)** **½ - 3 credits**  
This course teaches various math topics designed for pre-service teachers and educators with an emphasis on the Sunshine State Standards. Prerequisite: permission of instructor.
- SLS 2534 Technology and Math Anxiety Management (P)** **2 credits**  
This course teaches how to confront, understand and overcome anxiety toward computer technology, graphing calculator technology and mathematics. Students use computer software on the Internet to do mathematics, and use the graphing calculator to investigate problems that require solving equation techniques. Prerequisite: MAT 1033.
- MAP 3303 Differential Equations II (U)** **3 credits**  
This course provides further techniques in ordinary differential equations and an introduction to partial differential equations. Prerequisite: MAC 2312, MAP 2302 with a grade of "C" or higher.
- MAE 4815 Elements of Algebra (U)** **3 credits**  
This course teaches how to investigate the conceptual nature of mathematics and algebra. The students explore topics in set theory, number systems, number theory, data analysis, algebraic structures and elementary probability. Development of critical mathematical reasoning and application of theories using technology are emphasized. Prerequisite: MAC 2311.
- MAE 4932 Seminar in Mathematics Education (U)** **3 credits**  
This course teaches instructional strategies, planning techniques, evaluation procedures and class management skills. Prerequisite: senior level status, all program requirements must be met, and permission of Clinical Education Coordinator. Corequisite: MAE 4945.
- MAS 3105 Applied Linear Algebra (U)** **4 credits**  
This course provides a thorough treatment of linear algebra using a matrix-oriented approach, theory, and application projects. Major topics include matrices, systems of linear equations, linear transformations, determinants and their properties, eigenvectors and eigenvalues, vector spaces and subspaces, inner product spaces, orthogonality, similarity, and diagonalization. This course includes both theory and computational skills. For math majors, this course serves as a transition from a study of techniques to more conceptual math. For engineering and science majors, this course serves as a foundation in linear algebra. Prerequisite: MAC 2312.
- MAE 4363 Middle School/Secondary School Mathematics Methods (U)** **3 credits**  
This course teaches principles of effective curriculum design and assessment. It addresses the required methods, techniques, strategies, and resources for effective teaching of mathematics. It addresses specific Sunshine State Standards, subject matter competencies, and pedagogy pertinent to the discipline and required for certification. Prerequisite: EDF 3214, EDG 3343, Middle Grades MAE 4941, Secondary Mathematics MAE 3940. Corequisite: Middle Grades MAE 3940 or Secondary Mathematics MAE 4941.
- MAE 3651 Learn Math with Technology (U)** **1 credit**  
This course is designed for pre-service and practicing middle and high school math teachers. It includes the use of innovative computer software and graphing calculators for students to experience learning mathematics with technology at the middle and secondary school levels. The use and integration of dynamic geometry software, computer algebra, electronic spreadsheets, data analysis, and instructional software are studied from a problem solving perspective. Students also create programs on a graphing calculator. This course addresses specific Florida Sunshine State Standards, subject matter competencies, and pedagogy pertinent to the discipline and is required for certification. A programmable graphing calculator is required for this course. Prerequisite: EME 3410 or consent of the Department Chair.
- MAD 3105 Discrete Mathematics (U)** **3 credits**  
This course teaches propositional logic, counting techniques, permutations, combinations, recurrence relations, graph and digraphs, and network algorithms. Prerequisite: MAD 2104 with a grad or "C" or higher.



- MAE 3940 Teaching Middle School Mathematics Practicum (U)** **1 credit**  
 This course provides the opportunities to present interactive curriculum projects to middle school students in local area school districts. Students spend a minimum of 30 school-based hours in the middle school classroom. Project presentations are coordinated with in-service middle school teachers and their curriculum schedules and needs. This course addresses specific Sunshine State Standards, subject matter competencies, and pedagogy pertinent to the discipline and required for certification. This course is designed for students majoring in mathematics education and who will be obtaining teacher certification in grades 5-9 or 6-12. Prerequisite: EDF 2005, EDF 2085, EME 2040, EDF 3214, nine (9) hours of math content courses. Corequisite: Middle Grades MAE 4363 or Secondary Mathematics EDG 3343.
- MAE 3816 Elements of Geometry (U)** **3 credits**  
 This course teaches a variety of traditional and innovative geometric topics via a hands-on approach. This course presents the axioms, basic concepts, proofs and constructions of Euclidean geometry involving line segments, angles, triangles, polygons, circles, parallel lines and similarity. Basic concepts of non-Euclidean geometries are explored. The course focuses on proficiencies related to geometric reasoning to develop effective strategies for understanding geometry from conceptual, representational, and problem-solving perspectives. Development of critical mathematical reasoning and application of theories using technology are emphasized. Not open to students majoring in mathematics. Prerequisite: MAC 2311.
- MAE 4945 Student Teaching in Mathematics (U)** **10 credits**  
 This course requires a teacher candidate to demonstrate pre-professional competencies during a 16 week, full-time internship in a public school approved by the department. Contact hours: a minimum of 35 hours per week for 15 weeks. Prerequisite: senior level status, all program requirements must be met, and permission of clinical education coordinator. Corequisite: MAE 4932.
- MTG 3212 Modern Geometries (U)** **3 credits**  
 This course provides axiomatic treatment of topics in Euclidean geometry, Non-Euclidean geometry, and various subcategories of geometry, such as hyperbolic, projective, and fractal geometries. Prerequisite: MAC 2312.
- MAE 4941 Teaching Secondary Mathematics Practicum (U)** **1 credit**  
 This course is the practicum that provides the opportunities to present interactive curriculum projects to secondary school students in local area school districts. Students spend a minimum of 30 school-based hours in the secondary school classroom. Project presentations are coordinated with in-service secondary school teachers and their curriculum schedules and needs. This course addresses specific Sunshine State Standards, subject matter competencies, and pedagogy pertinent to the discipline and required for certification. This course is for education majors and those who will be obtaining teacher certification in grades 5-9 or 6-12. Prerequisite: EDF 2005, EDF 2085, EME 2040, EDF 3214, nine (9) hours of math content courses. Corequisite: Middle Grades EDG 3343 or Secondary Mathematics MAE 4363.
- MHF 4404 History of Mathematics (U)** **3 credits**  
 This course is designed as a capstone course for those students who are majoring in secondary mathematics education. This course consists of readings in the history and philosophy of mathematics and in current issues involving mathematics and society. Contributions from mathematicians such as Archimedes, Descartes, Fermat, Newton, Leibnitz, Euler and Gauss are discussed. Emphasis is given to how mathematics relates across disciplines as well as mathematical connections within the discipline. Fundamental ideas of high school mathematics are examined from an advanced standpoint. This course addresses specific Sunshine State Standards, subject matter competencies, and pedagogy pertinent to the discipline and required for certification.

**MAS 4203 Number Theory (U)** **3 credits**  
This course teaches students how to explore relationships and formulate conjectures in the areas of divisibility, congruence, Diophantine equations, the Euclidean algorithm, and number-theoretic functions. Formal proofs are developed to support these conjectures. Other topics include the Fundamental Theorem of Arithmetic and classical theorems of number theory. Development of mathematical thinking is emphasized. Prerequisite: MAC 2313.

**MAT 3905 Mathematics through Tutoring (U)** **1-3 credits**  
This course teaches the general math skills needed for successfully tutoring in an academic setting, general methods of tutoring, and the tutoring techniques needed in specific courses. Teacher-tutor seminars, teacher-tutor conferences, and formal instruction supplement the extensive tutoring experiences. Prerequisite: EDF 3214, nine (9) hours of math content courses or permission of instructor.

### **MEDICAL ASSISTING**

**MEA V258 Introduction to Radiography (O)** **75 hours**  
This course provides an overview of radiologic imaging including radiography, MRI, ultrasound, fluoroscopy, nuclear medicine, and CT. Students receive instruction on patient preparation, safety procedures, and information for each of the diagnostic modalities. Subject covered include fundamentals of x-ray production, basic knowledge of the equipment used in radiography, radiation protection, film handling, film processing and the basic positioning of the chest; and extremities and spine radiography. Insurance fee \$22.00; Lab fee \$80.00. Prerequisite: HSC V003, HSC V530C, MEA V231. Corequisite: MEA V234.

**MEA V200C Medical Assisting Clinical Procedures I (O)** **75 hours**  
This course teaches infection control, vital signs, physical examination, specialty exams, as well as diet therapy. Patient communication techniques and professional attributes are discussed. Procedures are demonstrated by the instructor, practiced by the student, and performed by the student for the practical grade. Pre/corequisite: MEA V231, HSC V003. Insurance fee \$22.00. Lab fee \$80.00.

**MEA V201C Medical Assisting Clinical Procedures II (O)** **90 hours**  
This course covers in-depth training of first aid; proper bandaging techniques, and exam procedures and treatments; assistance and set up for minor surgery including identification, recognition and care of needed instrumentation; autoclaving and sterilization, sterile fielding, and removal of sutures/staples/casts. Topics such as patient rehabilitation, pharmacology, and administration of medications are reviewed and demonstrated on simulated patients. This course introduces specialty procedures used in pulmonology, neurology, urology, pediatrics, orthopedics, ophthalmology and otolaryngology. Prerequisite: MEA V200C. Corequisite: MEA V242, MEA V234. Insurance fee \$22.00. Lab fee \$80.00.

**MEA V500 Medical Office Receptionist (O)** **100 hours**  
This course teaches the student the basic clerical skills necessary to the operation of a medical office. Prerequisite: OTA V005 or type 35 WPM. Lab fee \$40.00.

**HSC V530C Concepts of Medical Language (O)** **35 hours**  
This course teaches the language of health care, medical terminology, as well as the ability to read and comprehend fundamental terminology used in a variety of medical records and reports. This course focuses on definition, spelling, and pronunciation of medical terms relating to the human body and disease.

**MEA V242 Introduction to Pharmacology (O)** **90 hours**  
This course teaches general pharmacological concepts and principles in the management of patient care. Effective administration of therapeutic drugs, indications and contraindications are discussed, including the effects of medications on body systems. Drug classifications and their principal actions are reviewed. Dosage calculation is emphasized. Prerequisite: HSC V003, MEA V231. Lab fee \$25.00.

**MEA V231 Anatomy and Physiology (0) 60 hours**

This course teaches a general overview of anatomy and physiology of the human body. It assists the beginning student in understanding how the human body works by providing essential aspects of structure and function in a simple and direct way. This course explains the relationships among organ systems as well as the relationship of each system to the well-being of the entire organism.

**MEA V234 Pathophysiology and Disease (0) 75 hours**

This course teaches an overview of the disease process, infectious diseases, neoplasms, and congenital diseases. Each common disease/disorder within a body system is described using etiology, signs and symptoms, diagnostic procedures, treatment, prognosis, and prevention. Prerequisite: HSC V003, HSC V530C, MEA V231.

**MEA V254C Medical Office Laboratory (0) 75 hours**

This course provides didactic and laboratory instruction and practice in specimen collection and preparation, microscopy, hematology, urinalysis, and basic office bacteriology, including use of laboratory instruments. Lab fee \$85.00.

**MEA V334 Medical Office Procedures (0) 75 hours**

This course teaches medical insurance, diagnostic and procedural coding, banking procedures, billing and collection procedures, payroll procedures, as well as medical transcription. The student will also be able to analyze and employ third party guidelines for reimbursement and understand the legal concepts affecting billing and medical records. Prerequisite: MEA V500, OTA V006. Lab fee \$25.00.

**MEA V800 Medical Assisting Practicum (0) 200 hours**

This course teaches general overview of the operation of a medical practice. Students are assigned to a physician's office or clinic for a total of two hundred (200) hours to observe and, under supervision, perform basic administrative, laboratory, and clinical duties. Conference meetings are arranged between the student and the internship director. Prerequisite: Completion of Medical Assisting Program and permission of instructor. Insurance fee \$22.00. Lab fee \$25.00.

**MEA V952 Medical Assisting Seminar (0) 35 hours**

This course teaches fundamentals of Medical Assisting through group discussion and individual conferences on clinical experiences during internship for workplace readiness. Study techniques and preparation for students planning to write the American Association of Medical Assistants (AAMA) certification examination are also presented. Prerequisite: MEA V201C, MEA V254C, MEA V258, HCP V720C; and MEA V334 or OTA V613.

**MEDICAL LABORATORY TECHNOLOGY**

**MLT 1000C Introduction to Biomedical Technology (0) 3 credits**

This course teaches introductory biomedical sciences, medical laboratory, and the principles and skills common to all laboratory departments including hematology, clinical chemistry, microbiology, serology and immunology and blood banking or immunohematology. It also includes concepts of general lab practice including safety. This course is open to general college students who are interested in the biomedical sciences. Lab fee \$50.00.

**MLT 1040C Introduction to Specimen Processing (0) 2 credits**

This course provides a general overview and update on those techniques, procedures, and issues pertaining to the proper collection of blood and body fluid specimens for routine clinical laboratory testing. Corequisite: MLT 1362. Insurance fee \$22.00. Lab fee \$60.00.

**MLT 1440C Parasitology and Mycology (0) 2 credits**

This course teaches general characteristics, classifications and etiology of medically important parasites and fungi. Prerequisite: MLT 1000C. Corequisite: MLT 2400, MLT 2400L. Lab fee \$20.00.

- MLT 1230 Urinalysis and Body Fluids (O)** **2 credits**  
The course studies the principles of kidney function, chemical and microscopic examination of urine, and special urinalysis screening tests are included. This class studies cerebrospinal fluid, gastric body fluids, gastric analysis, fecal analysis, and miscellaneous body fluids. Prerequisite: MLT 1362. Lab fee \$20.00.
- MLT 1230L Urinalysis and Body Fluids Laboratory (O)** **1 credit**  
The course teaches the laboratory concepts of urinalysis and body fluids which include the chemical, physical and microscopic characteristic of urine. It also includes the studies of cerebrospinal fluid, gastric fluid, fecal analysis and other miscellaneous body fluids. Prerequisite: MLT 1362. Corequisite: MLT 1230.
- MLT 1362 Hematology and Coagulation (O)** **4 credits**  
This course teaches the basic hematology and coagulation. Included is the study of normal blood cell maturation, blood cell disorders, and recognition of normal and abnormal blood cells. Plasma coagulation components and associated disorders are covered. Prerequisite: Admission into MLT Program. Corequisite: MLT 1000C, MLT 1040C.
- MLT 1362L Hematology and Coagulation Lab (O)** **1 credit**  
This course provides laboratory training in MLT skills related to hematology and coagulation. The emphasis is on: appropriate collection, handling, processing, and testing of specimens in the area of hematology and coagulation. Recognition of technical problems and selected abnormalities are also presented. Corequisite: MLT 1362, MLT 1000C, MLT 1040C. Insurance fee \$22.00. Lab fee \$150.00.
- MLT 1500C Immunology and Serology (O)** **4 credits**  
This course teaches the formation, structure, and action of antigen-antibody reactions with performance of sero-diagnostic tests procedure. The course is a combination of lecture and laboratory testing. Prerequisite: MLT 1000C, MLT 1525, MLT 1525L.
- MLT 1525 Immunohematology (Blood Bank) (O)** **4 credits**  
This course studies immunohematology principles and standard techniques used in blood banking: ABO, RH typing antibody screening, and compatibility testing. The emphasis is on appropriate collection, handling, and testing of specimens in the area of blood banking. Technical problems, identification of antibodies, and blood component preparation and storage are studied. Prerequisite: MLT 1362, MLT 1000C. Corequisite: MLT 1525L.
- MLT 1525L Immunohematology Lab (O)** **1 credit**  
This course provides laboratory training in MLT skills related to immunohematology principles and standard techniques used in blood banking: ABO, RH typing antibody screening, and compatibility testing. The emphasis is on appropriate collection, handling, and testing of specimens in the area of blood banking. Recognition of technical problems, identification of antibodies, and blood component preparation/storage are also covered. Prerequisite: MLT 1362, MLT 1000C. Corequisite: MLT 1525. Lab fee \$100.00
- MLT 2400 Medical Microbiology (O)** **4 credits**  
This course teaches the general characteristics and classification of clinically important bacteria. Instruction in the theory, practical application, and pathogenesis of clinical microbiology, including collection, setup, identification, susceptibility testing and reporting procedures are also discussed. Prerequisite: MLT 1000C. Corequisite: MLT 2400L, MLT 1440C.
- MLT 2400L Medical Microbiology Lab (O)** **1 credit**  
This course provides laboratory training in MLT skills related to clinical microbiology. The emphasis is on specific techniques and instruments, identification factors that affect procedures and results, confirmation of results and monitoring quality control programs, and correction of error. Prerequisite: MLT 1500C. Corequisite: MLT 2400. Lab fee \$150.00.

- MLT 2033 Medical Laboratory Career Orientation (O)** **1 credit**  
This course teaches the responsibilities and ethics of MLT, review of publications, job skills, licensure information, human relations, and unusual case studies. Prerequisite: MLT 1000C.
- MLT 1199 Introduction to Molecular Diagnostics (O)** **1 credit**  
This course presents an introduction to the molecular mechanisms of human diseases and a survey of diagnosis through cytogenetic and nucleic acid molecular technology, basic and clinical techniques of DNA-based diagnostic methods, and the issues related to those methods. Corequisite: MLT 2400, MLT 2400L.
- MLT 2625 Clinical Chemistry (O)** **5 credits**  
This course teaches the theory and principles of chemical analysis of blood and body fluids with emphasis on automated procedures and specialized techniques. Corequisite: MLT 2625L. Lab fee \$65.00. Insurance fee \$22.00.
- MLT 2625L Clinical Chemistry Lab (O)** **1 credit**  
This course teaches principles of chemical analysis of blood and body fluids with emphasis on basic manual procedures, including automated procedures and specialized techniques. Prerequisite: MLT 1000C. Corequisite: MLT 2625. Lab fee \$100.00.
- MLT 2807L Immunohematology Clinical Practicum (O)** **3 credits**  
This course teaches the theory, practical application and technical performance of immunohematological, and serological procedures relating to disease. Experience is gained by analyzing normal and abnormal specimens in clinical facilities. Practical application of safety and quality control procedures related to the department are also covered. Prerequisite: MLT 1000C, MLT 1525, MLT 1525L, MLT 1500C.
- MLT 2809L Hematology Clinical Practicum (O)** **3 credits**  
This course teaches the theory, practical application and technical performance of hematological, and coagulation procedures and urinalysis and body fluid procedures related to disease. Experience is gained in analyzing normal and abnormal specimens in clinical facilities. Practical application of safety and quality control procedures related to the department are also covered. Prerequisite: MLT 1000C, MLT 1362, MLT 1362L, MLT 1230, MLT 1230L.
- MLT 2810L Clinical Chemistry Practicum (O)** **3 credits**  
This course teaches the theory, practical application and technical performance of clinical chemistry laboratory procedures. Experience is gained in analyzing normal and abnormal specimens in clinical facilities. Practical application of safety and quality control procedures related to the department are also covered. Prerequisite: MLT 1000C, MLT 2625, MLT 2625L.
- MLT 2811L Microbiology Clinical Practicum (O)** **3 credits**  
This course teaches the theory, practical application and technical performance of microbiological, parasitology and mycology procedures related to disease. Experience is gained by analyzing normal and abnormal specimens in clinical facilities. Practical application of safety and quality control procedures related to the department are also covered. Prerequisite: MLT 1000C, MLT 2400, MLT 2400L, MLT 1440C.
- MLT 2931 MLT Review for the State Exam (O)** **2 credits**  
This course provides a comprehensive review of knowledge and competencies required for career entry at the technician level of certification. Using information from the list of objectives for each previous course and clinical, components of competencies used for the certification examination are emphasized. Students are required to achieve a 76% or better on examinations in Hematology, Immunohematology, Clinical Chemistry, Urinalysis, and Body Fluids, Immunology, Microbiology including Parasitology, Mycology and Virology. This course is meant to provide a transition from the student role to a graduate role.

**MUSIC**

- MUH 1933 Special Topics in Music (P)** **1 - 3 credits**  
This course provides the student with varied cultural experiences in music. It offers the student the opportunity to analyze, appreciate, interpret, survey and study, through a lecture, audio, and discussion method, various topics whose focus is on music. Permission of instructor required.
- MUE 1930 Music for Educators (P)** **½ - 3 credits**  
This course teaches the terms, concepts, elements, purposes, objectives, and themes of incorporating music in classroom curriculum.
- MUE 2090 Orientation to Music Education/Therapy (P)** **1 credit**  
This course teaches the academic study and professional practice of music therapy, providing a variety of learning experiences for exploring current practices in music therapy. Prerequisite: permission of instructor.
- MUN 2140 Wind Ensemble (P)** **1 credit**  
This course allows the student to engage in a highly skilled level of study of wind literature important to contemporary performing practices.
- MUN 2130 Symphonic Band (P)** **1 credit**  
This course provides for the study and practice of performance techniques and skills, analyzes music from representative musical genres, and culminates in an IRSC OnStage concert performance.
- MUN 2310 College Chorale (P)** **1 credit**  
This course examines choral literature from all musical eras and presents appropriate vocal technique for performance application. This course culminates in an IRSC OnStage concert performance.
- MUO 1002 Musical Theater Lab I (P)** **2 credits**  
This course teaches fundamentals of singing in musical theater productions, including proper vocal technique (respiration, projection, phonation) in combination with acting and movement. Students are required to research and report upon musical theater literature and performance styles. Prerequisite: permission of instructor.
- MUL 2010 Survey of Music Literature (P)\*** **3 credits**  
This course teaches history, structure, and development of music through the survey and study of representative musical literature. Musical genres from the Middle Ages to contemporary music are presented. Students demonstrate college-level writing skills through multiple assignments. Prerequisite: Student must score into college-level English and reading on placement test.
- MUL 2012 Survey of Music Literature - Musical Theater (P)\*** **3 credits**  
This course teaches history and styles of musical theater genres through the survey and study of representative musical theater literature. Musical genres from the 19<sup>th</sup> century to contemporary musical theater are presented. Prerequisite: Student must score into college-level English and reading on placement test.
- MUN 2290 Theatre Orchestra (P)** **1 credit**  
This course provides performance experience in the instrumental ensemble used for musical theatre. The students in this course comprise the orchestra for the IRSC OnStage musical.
- MUN 2372 Cabaret (P)** **1 credit**  
This course teaches performance applications and opportunities for vocal music theories and skills enhancement excersises. Students demonstrate effective and appropriate vocal performance skills for varying genres and styles of popular music. Prerequisite: permission of instructor.

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- MUN 2374 Cabaret II (P)** **1 credit**  
This course is a continuation of Cabaret, MUN 2372, and allows the student to continue study of musical theater performance. Students prepare and perform musical theater literature in a variety of venues. Prerequisite: MUN 2372, permission of instructor.
- MUN 2410 String Chamber Ensemble (P)** **2 credits**  
The student studies musical literature of all eras appropriate for small ensembles with practical application. Prerequisite: permission of instructor.
- MUN 2311 Advanced College Chorale (P)** **1 credit**  
This course teaches the application of proper vocal technique to the study of a wide variety of choral literature and culminates in a concert performance. Permission of instructor/audition is required. Prerequisite: MUN 2310.
- MUN 2440 Percussion Ensemble (P)** **1 credit**  
This course is the third in a series of courses. Students will continue to gain expertise on their instrument while performing within an ensemble. Students study pieces from a variety of styles.
- MUN 2480 Guitar Ensemble (P)** **1 credit**  
This course provides sight reading and ensemble performance experience for guitar students of all skills levels. Public performance is required. Audition and approval of instructor required.
- MUN 2012 Instrumental Ensemble (P)** **1 credit**  
The student studies all musical literature for the small ensemble through all historic periods with practical application in ensemble performance.
- MUN 2710 Stage/Jazz Band (P)** **1 credit**  
This course presents the study, analysis, and performance criteria for the jazz musical genre. This course culminates in an IRSC OnStage concert performance.
- MUN 2720 Vocal Ensemble "Company" (P)** **1 credit**  
This course presents the study, analysis, and vocal performance criteria for popular and jazz music. This course culminates in the IRSC OnStage musical production.
- MUN 2722 Advanced Vocal "Company" (P)** **1 credit**  
This course provides performance applications and opportunities for vocal music theories and skills enhancement exercises. The students demonstrate effective and appropriate vocal performance skills for varying genres and styles of popular music. Prerequisite: MUN 2720 and permission of instructor.
- MUT 1001 Fundamentals of Theory (P)** **3 credits**  
This course teaches the basic music fundamentals including notation, rhythm, scales and chords, and intervals. This course is open to all students on campus and serves as an elective in Fine Arts.
- MUT 1221 Introduction to Sightsinging (P)** **2 credits**  
This course teaches melodic and rhythmic principles. Students gain experience through hands-on preparation of musical exercises.
- MUT 1241 Sightsinging and Ear Training I & II (P)** **1 credit**  
This course teaches aural recognition of the structural components of music. Students are required to notate aural dictation and sing melodies at sight. Prerequisite: two (2) semesters of MUT 1221.
- MUO 1003 Musical Theater Lab II (P)** **2 credits**  
This course teaches fundamentals of singing in musical theater productions, including proper vocal technique (respiration, projection, phonation) in combination with acting and movement, building upon the principles introduced in MUO 1002. Students are required to research and report upon musical theater literature and performance styles. Prerequisite: MUO 1002.

- MUO 2220 Projects for Musical Theatre (P)** **3 credits**  
This course allows the student to prepare and execute a variety of performance-related projects usually in direct application to regularly scheduled IRSC Main Stage productions. Prerequisite: permission of instructor.
- MUS 2934 Arts in Medicine (P)** **1 - 3 credits**  
This course teaches how to use individual talents to benefit patients, families and staff in various medical facilities, through volunteering. Projects include interactions with patients in music, dance, or the visual arts and/or aesthetic enhancement of the hospital/facility environment. Prerequisite: permission of instructor.
- MUT 1641 Jazz Improvisation I** **2 credits**  
This course teaches beginning level jazz improvisation. Emphasis is placed on the mastery of all major, minor, whole tone and diminished scales and arpeggios. Students learn to read and write idiomatic jazz rhythms and incorporate them in their playing on basic jazz progressions. Prerequisite: Basic instrumental competency.
- MUT 1642 Jazz Improvisation II** **2 credits**  
This course teaches effective jazz improvising with emphasis on using the basic tools of technique and rhythm concepts in building solos on standard jazz repertoire. Prerequisite: MUT 1641.
- MVV 1111 Class Voice I & II** **1 credit**  
Students are instructed in the fundamentals of vocal technique. Course includes presentation of basic music reading principles and performance application.
- MUT 1111 Theory of Music I (P)** **3 credits**  
This course improves performance and compositional skills by providing an understanding of musical concepts, techniques, and symbols. Prerequisite: Ability to read music or successful completion of MUT 1001 required.
- MUT 1112 Theory of Music II (P)** **3 credits**  
This course enables the student to write music, which effectively demonstrates an understanding of theoretical terms, symbols, or concepts, and be able to solve specific, compositional problems. Prerequisite: MUT 1111.
- MUT 2116 Theory of Music III (P)** **3 credits**  
This course teaches analysis of advanced structural materials and designs of music with emphasis on 19th century concepts and part-writing. Prerequisite: MUT 1112.
- MUT 2117 Theory of Music IV (P)** **3 credits**  
The course is a study of advanced structural materials of music with emphasis on 20th century styles and compositional systems. Prerequisite: MUT 2116.
- MUY 2600 Recreational Music (P)** **3 credits**  
This course teaches practical experience in planning and leading structured small group music applications for participants of all ages in therapy, education, and leisure programs. Prerequisite: permission of instructor.
- MVO 1310 Applied Music Principle Modified Credit (P)** **½ credit**  
This course provides private instruction for music majors needing maximum proficiency on their principle instrument. One-half hour lesson each week in addition to five hours of practice and a recital are required. Prerequisite: permission of instructor.
- MVS 1116 Class Guitar - Music Therapy** **1 credit**  
This course teaches basic folk guitar techniques, including the mastery of primary chords in common keys, strumming and fingerpicking accompaniment, song leading skills, tuning methods, as well as group instruction to facilitate mastery of basic skills.
- MVK 1111 Class Piano I and II** **2 credits**  
This course is designed for music majors as a fundamental class in keyboard techniques. Emphasis is on specific skills such as sight-reading, transposition, and harmonization.



**MVK 2121 Class Piano III and IV** 2 credits

This course is a continuation of MVK 1111. Prerequisite: MVK 1111.

**MVV 1113 Class Voice Performance** 1 credit

This course teaches effective vocal performance through individualized classroom presentations. Course will continue to review fundamentals of vocal technique, musical interpretation, vocal health, and vocal literature in performance context. Permission of instructor required.

## **MUSIC - APPLIED**

**Applied Music - Principal Instruments** 1½ credits

Private instruction designed for music majors needing maximum proficiency on their principal instrument. One half-hour lesson is required each week in addition to five hours of practice.

Recital is required. Courses may be repeated for credit. Lab fee \$125.00. Permission of music faculty required for all applied music courses.

- MVB 2321 Principal Applied Trumpet
- MVB 2324 Principal Applied Baritone Horn
- MVB 2325 Principal Applied Tuba
- MVK 2321 Principal Applied Piano
- MVK 2323 Principal Applied Organ
- MVP 2321 Principal Applied Percussion
- MVS 2315 Principal Applied Harp
- MVS 2321 Principal Applied Violin
- MVS 2322 Principal Applied Viola
- MVS 2323 Principal Applied Cello
- MVS 2324 Principal Applied String Bass
- MVS 2326 Principal Applied Guitar
- MVV 2321 Principal Applied Voice
- MVW 2321 Principal Applied Flute
- MVW 2322 Principal Applied Oboe
- MVW 2323 Principal Applied Clarinet
- MVW 2324 Principal Applied Bassoon
- MVW 2325 Principal Applied Saxophone

**Applied Music - Secondary Instruments** 1½ credits

Private instruction designed for music majors needing maximum proficiency on an instrument other than their principal instrument. One half-hour lesson is required each week in addition to five hours of practice. Recital is required. These courses are repeatable 2 times for credit.

\$125 lab fee. Permission of music faculty required for registration in all applied music courses.

- MVB 2221 Secondary Applied Trumpet
- MVB 2222 Secondary Applied French Horn
- MVB 2223 Secondary Applied Trombone
- MVB 2224 Secondary Applied Baritone Horn
- MVB 2225 Secondary Applied Tuba
- MVK 2221 Secondary Applied Piano
- MVK 2223 Secondary Applied Organ
- MVP 2221 Secondary Applied Percussion
- MVS 2221 Secondary Applied Violin
- MVS 2223 Secondary Applied Cello
- MVS 2224 Secondary Applied String Bass
- MVS 2226 Secondary Applied Guitar
- MVV 2221 Secondary Applied Voice
- MVW 2221 Secondary Applied Flute
- MVW 2222 Secondary Applied Oboe
- MVW 2223 Secondary Applied Clarinet

MVW 2224 Secondary Applied Bassoon

MVW 2225 Secondary Applied Saxophone

### NUCLEAR MEDICINE TECHNOLOGY

- NMT 1002 Introduction to Nuclear Medicine (O) 3 credits**  
This course teaches an introduction to the profession of Nuclear Medicine and includes patient care, universal standards, patient communication and interactions, and an overview of the health care system. Prerequisite: CHM 1020, BSC 2093, BSC 2093L, BSC 2094, BSC 2094L, MAC 1105. Corequisite: NMT 1430, NMT 1534, NMT 1713, NMT 1804.
- NMT 1130 Nuclear Medicine Radiopharmacy (O) 3 credits**  
This course teaches the theory and practice of radiopharmacy, including preparation, dose calculation, quality control, and radiation safety. Non-radioactive interventional drugs are also covered. Prerequisite: NMT 1002, NMT 1430, NMT 1534, NMT 1713, NMT 1804. Corequisite: NMT 1312, NMT 1723, NMT 1814.
- NMT 1312 Nuclear Medicine Radiation Safety (O) 3 credits**  
This course teaches the principles and applications of radiation protection including applicable local, state and federal regulations. Prerequisite: NMT 1002, NMT 1430, NMT 1534, NMT 1713, NMT 1804. Corequisite: NMT 1130, NMT 1723, NMT 1814.
- NMT 1430 Nuclear Medicine Radiobiology & Physics (O) 3 credits**  
This course teaches the concepts related to the biological effects associated with exposure to ionizing radiation and an introduction to modes, cellular, tissue and total body biological response patterns. The concepts of radioactivity, and the interactions of radiation and matter are also discussed. Prerequisite: CHM 1020, BSC 2093, BSC 2093L, BSC 2094, BSC 2094L, MAC 1105. Corequisite: NMT 1002, NMT 1534, NMT 1713, NMT 1804.
- NMT 1713 Nuclear Medicine Methodology I (O) 4 credits**  
This course teaches general nuclear medicine diagnostic imaging procedures associated with anatomy, physiology and pathology. Procedures include bone, cardiovascular, central nervous system, digestive system, endocrine, and endocrine system. Prerequisite: CHM 1020, MAC 1105, BSC 2093, BSC 2093L, BSC 2094, BSC 2094L. Corequisite: NMT 1002, NMT 1430, NMT 1534, NMT 1804.
- NMT 1723 Nuclear Medicine Methodology II (O) 4 credits**  
This course teaches genitourinary system procedures, hematology and In Vitro studies, oncology/inflammation procedures, respiratory system imaging, and radionuclide therapy. Prerequisite: NMT 1002, NMT 1430, NMT 1534, NMT 1713, NMT 1804. Corequisite: NMT 1130, NMT 1312, NMT 1814.
- NMT 1804 Nuclear Medicine Clinical Education I (O) 3 credits**  
This course teaches practical applications in a supervised environment. The student observes, assists, and performs nuclear medicine procedures covered in Nuclear Medicine Methodology I. Prerequisite: BSC 2093, BSC 2093L, BSC 2094, BSC 2094L, CHM 1020, MAC 1105. Corequisite: NMT 1002, NMT 1430, NMT 1534, NMT 1713.
- NMT 1814 Nuclear Medicine Clinical Education II (O) 3 credits**  
This course is a continuation of NMT 1804. The student observes, assists, and performs nuclear medicine procedures covered in NMT 1713 and NMT 1723. Prerequisite: NMT 1002, NMT 1430, NMT 1534, NMT 1713, NMT 1804. Corequisite: NMT 1130, NMT 1312, NMT 1723.
- NMT 1824 Nuclear Medicine Clinical Education III (O) 2 credits**  
This course is a continuation of NMT 1814. The student observes, assists, and performs nuclear medicine procedures covered in NMT 1713 and NMT 1723. Emphasis is placed on completion of clinical competencies. Prerequisite: NMT 1130, NMT 1312, NMT 1723, NMT 1814. Corequisite: NMT 1932.

**NMT 1534 Nuclear Medicine Instrumentation (O) 3 credits**

This course teaches the integration and correlation of principles, operation and quality control of non-imaging and gamma and positron imaging instrumentation. Prerequisite: MAC 1005, CHM 1020, BSC 2093, BSC 2093L, BSC 2094, BSC 2094L. Corequisite: NMT 1002, NMT 1430, NMT 1713, NMT 1804.

**NMT 1932 Nuclear Medicine Seminar (O) 3 credits**

This course teaches a comprehensive review of the professional curriculum to facilitate preparation for the national certification examinations. Prerequisite: NMT 1130, NMT 1312, NMT 1723, NMT 1814. Corequisite: NMT 1824.

**NURSING - ASSOCIATE DEGREE NURSING****NUR 1020C Nursing Fundamentals (O) 8 credits**

A course in fundamentals of nursing which focuses on the basic needs of individuals and the nurse's role in meeting these needs. The course includes history and trends in nursing, legal and ethical responsibilities of nurses, and basic technical and professional skills which ground the learner for future nursing courses. Needs of geriatric, oncologic, and perioperative clients are presented. The nursing process is introduced as the methodology for giving care to clients. Selected experiences in local extended care and acute care facilities are provided. Prerequisite: BSC 2093 and BSC 2093L with a grade of "C" or better. Pre/corequisite: BSC 2094 and BSC 2094L, HUN 1201. Lab fee \$50.00. Insurance fee \$22.00.

**NUR 1142 Selected Topics in Medication Administration (O) 1 credit**

This course teaches medical error prevention and basic pharmacological concepts. Principles for safe administration of select drug categories and IV fluids and medications are included. Prerequisite: NUR 1020C. Lab fee \$39.00. Insurance fee \$22.00.

**NUR 2264C Adult Nursing - GI/Respiratory (O) 4 credits**

This course teaches utilization of the nursing process in the study of persons with alterations in functions of the respiratory and gastrointestinal tract. It addresses nursing of clients in acute care through classroom instruction and clinical experience. Prerequisite: BSC 2093, BSC 2093L, BSC 2094, BSC2094L, MCB 2010, MCB 2010L, NUR 1020C, NUR 1142, NUR 2420C, NUR 2520C with a grade of "C" or better. Lab fee \$63.00. Insurance fee \$22.00.

**NUR 2217C Adult Nursing GU/Endocrine (O) 5 credits**

This course teaches utilization of the nursing process in the study of persons with alterations in functions of the reproductive system, genitourinary system, connective tissues, musculoskeletal (orthopedic) system, integumentary systems and in the study of persons with diabetes mellitus. It addresses the nursing care of clients in acute care through classroom instruction and clinical experiences. Prerequisite: BSC 2093, BSC 2093L, BSC 2094, BSC 2094L, MCB 2010, MCB 2010L, NUR 2420C, NUR 2520C, NUR 1142, NUR1020C with a grade of "C" or better. Lab fee \$91.00. Insurance fee \$22.00.

**NUR 2420C Maternity Nursing with Lab (O) 4 credits**

This course is concerned with the biologic, psychosocial, and cultural forces influencing child-bearing, beginning with conception and following through pregnancy, birth, and post-natal period. Normal phenomena are studied prior to complications. The nursing process is utilized in the assessment of the unique needs of the family during the child-bearing stage, the diagnosis of family problems, and in the planning, implementation and evaluation of nursing care. Clinical experiences in clinics and health care facilities are provided. Prerequisite: NUR 1020C, HUN 1201, BSC 2093, BSC 2093L, BSC 2094, BSC 2094L, with a grade of "C" or better. Pre/corequisite: MCB 1020, MCB 2010L, with a grade of "C" or better. Lab fee \$39.00. Insurance fee \$22.00.

- NUR 2520C Psychiatric Mental Health Nursing with Lab (O)** **5 credits**  
This course studies the assessment skills and effective therapeutic interventions required in the caring for people with psychosocial problems. Emphasis is on the study of the normal and psychopathological mental/emotional processes, and the role of the nursing process in assisting people in attaining, maintaining, and promoting psychosocial integrity. The course focuses on a person's holistic nature by responding to all of the basic human needs. Clinical experiences in psychiatric facilities are provided. Prerequisite: NUR 1020C, BSC 2093, BSC 2093L, BSC 2094, BSC 2094L, with a grade of "C" or better, and PSY 2012. Pre/corequisite: MCB 2010, MCB 2010L, with a grade of "C" or better. Lab fee \$83.00. Insurance fee \$22.00.
- NUR 2811L Nursing Practicum (O)** **5 credits**  
This course is a culmination of all courses in the ADN program. It provides experience in the clinical setting for managing and administering care to patients. These experiences approximate those required for a beginning associate degree nurse. The student works under the direct supervision of a Registered Nursing Preceptor. Assigned faculty are available for guidance and direction to the student and/or preceptor. This course may only be taken after successful completion of all general education and other nursing courses. Prerequisite: NUR 1142, BSC 2093, and BSC 2093L with a grade of "C" or better. Lab fee \$21.00. Insurance fee \$22.00. Test fee \$93.00.
- NUR 2310C Pediatric Nursing with Lab (O)** **5 credits**  
This course studies the child from infancy through adolescence, giving the student an understanding of normal growth and development and the childrearing process. The course emphasizes the child as a human being, an individual, holistic in nature, like all other persons on earth, yet different. Emphasis is on the nursing process as a means of assessing the needs of the child in health and in pathophysiological situations, which may occur. Attention is given to the planning, implementation, and evaluation of nursing care for the child and his family. Selected clinical experiences in local health facilities are provided. Prerequisite: BSC 2093, BSC 2093L, BSC 2094, BSC 2094L, DEP 2004, MCB 2010, MCB 2010L, NUR 1020C, NUR 2520C, NUR 2420C, NUR 2264C, NUR 2217C, NUR 1142 with a grade of "C" or better. Lab fee \$39.00. Insurance fee \$22.00. Test fee \$16.00.
- NUR 2242 Advanced Adult Nursing (O)** **5 credits**  
This course teaches nursing students about persons with alterations in the cardiovascular, hematologic, neurological, immune, sensory, and endocrine (other than diabetes mellitus) systems. It addresses nursing of patients in complex situations, such as critical care units both in classroom and in clinical training. Prerequisite: BSC 2093, BSC 2093L, BSC 2094, BSC 2094L, MCB 2010, MCB 2010L, NUR2217C, NUR 2264C, NUR 2520C, NUR 2420C, NUR 1142, NUR 1020C, with a grade of "C" or better. Lab fee \$59.00. Insurance fee \$22.00.
- NUR 1006C Transition to Professional Nursing (O)** **9 credits**  
The course is for the Florida Licensed Practical Nurse, Licensed Paramedic or Registered Respiratory Therapist making the transition to ADN. The nursing process is used in the study of persons with alterations in any function of the human body. It addresses nursing in both simple and complex situations including emergencies, disaster situations and critical care units. Clinical experiences are provided for both adult clients in acute care and home care agencies. Prerequisite: NUR 1020C, BSC 2093, BSC 2093L, BSC 2094, BSC 2094L, MCB 2010, MCB 2010L. Lab fee \$125.00. Insurance fee \$22.00.
- NUR 1304L Transition Laboratory - Pediatrics (O)** **1 credit**  
This course is for LPN/ADN transitional students who have satisfactorily passed the challenge test in pediatric nursing. Clinical experiences in care of children from infancy to adolescence are provided. Emphasis is on well children and on children with special needs and health problems. Satisfactory scores on the Nursing Mobility Test I are required. Prerequisite: NUR 1006C. Insurance fee \$22.00. Test fee \$15.00.

- NUR 1304 Transition - Pediatrics (O)** **4 credits**  
This course is a pediatric nursing course advanced placement option for the Florida Licensed Practical Nurse. Student must successfully complete NLN Mobility Profile II Exam - pediatric section to receive credit for this course. Prerequisite: BSC 2093, BSC 2093L.
- NUR 1404 Transition - Maternity (O)** **3 credits**  
This course is a maternity nursing course advanced placement option for the Florida Licensed Practical Nurse. Student must successfully complete NLN Mobility Profile II Exam - maternity section to receive credit for this course. Prerequisite: BSC 2093, BSC 2093L.
- NUR 1404L Transition Lab - Maternity (O)** **1 credit**  
This course is for the LPN/ADN transitional students who have satisfactorily passed the challenge test in maternity nursing. Clinical experiences in antepartal clinics, labor and delivery, postpartum, and the newborn nursery are provided. Emphasis is on the normal, as well as common recurring health problems for women, neonates, and the family. Satisfactory scores on the Nursing Mobility Profile Test are required. Prerequisite: NUR 1006C. Insurance fee \$22.00. Test fee \$10.00. Lab fee \$15.00.
- NURSING - BACCALAUREATE DEGREE NURSING**
- NUR 3065C Nursing Assessment (U)** **3 credits**  
This course teaches the holistic assessment of individuals. This course advances students' knowledge and skills in history-taking, risk appraisal, health promotion, psychosocial, cultural, developmental and functional assessment, and physical examination techniques. The emphasis for this course is on diagnostic reasoning skills in assessing variations from normal and applying the nursing process. The clinical provides the practical experience of nursing assessment and diagnosis. Lab fee \$18.00.
- NUR 3125 Pathophysiology (U)** **3 credits**  
This course teaches an advanced study of pathophysiology and symptomatology across the lifespan due to alteration in selected human biological systems. The focus is on alterations in physiologic function as manifestations of disease. Emphasis is on relating signs, symptoms and laboratory findings of common alterations and understanding nursing interventions to promote adaptation.
- NUR 3164 Nursing Research and Informatics (U)** **3 credits**  
This course teaches the relationship of nursing research and the utilization of evidence based practice. This course explores the research process as a foundation for acquiring the skills needed to access, critically appraise, and synthesize research literature. A nursing approach to information technology is also examined. Concepts in health care informatics, trends and innovative strategies and applications are introduced. Prerequisite: MAC 1105, STA 2023.
- NUR 3846 Nursing Theory (U)** **3 credits**  
This course critically analyzes nursing theory and foundations for reasoning in nursing practice. It focuses on the evolution and application of nursing knowledge. The contexts of nursing theory are explored. The nature and specific characteristics of nursing theory are discussed, including perspectives on essential elements of theories at various levels. The purpose of this examination is not to focus in detail on any one theorist, but to examine theory and its contribution to the advancement of nursing as a discipline.
- NUR 4636C Community Health Nursing (U)** **4 credits**  
This course teaches community and public health nursing in relation to disaster preparedness, epidemiology, culture and environment. The focus of this course is on nursing care designed to prevent and/or reduce risk of disease and injury and promotion of health and wellness in diverse populations across the age spectrum. Clinical experiences are provided in community-based sites in a variety of settings. Prerequisite: NUR 3164, NUR 3846. Insurance fee \$22.00.

**NUR 3826 Ethical and Legal Issues in Health Care (U) 3 credits**

This course teaches the ethical and legal rights and responsibilities of the professional nurse in a changing health environment. The emphasis of this course is to determine the nurse's individual accountability within the legal scope of practice and to clarify individual accountability for ethical nursing practice.

**NUR 4827 Leadership and Management in Professional Nursing (U) 3 credits**

This course teaches principles of nursing leadership and management with an emphasis on decision-making, priority setting, delegating, communicating, team building and managing fiscal and human resources. The focus is on preparation of the professional nurse for leadership responsibilities in collaboration with the interdisciplinary health care environment. Leadership experiences are provided in a variety of clinical settings. Prerequisite: NUR 3846, NUR 3164, NUR 4655, NUR 4837, NUR 4636C. Pre/corequisite: NUR 3826.

**NUR 4837 Health Care Policy and Economics (U) 3 credits**

This course teaches the present realities of the health care industry, the stages of public policy development and how economics influences health care. The focus is on paradigm shifts and trends impacting health care today. The students are prepared to proactively plan and function in a constantly changing health care environment. The application of policy development and political activism is included.

**NUR 3145 Pharmacology (U) 3 credits**

This course teaches pharmaco-therapeutics, pharmaco-dynamics and pharmaco-kinetics as they relate to the nursing practice. The nursing processes are utilized in the study of the various drug classifications.

**NUR 4655 Nursing in a Diverse Culture (U) 3 credits**

This course teaches the knowledge, skills and behaviors needed to provide culturally competent nursing care to people from diverse groups. This course analyzes the health-related practices, values and beliefs among cultural groups as they influence nursing practice.

**NURSING - PRACTICAL NURSING****PRN V022 Body Structure and Function (O) 60 hours**

This course provides instruction on the structure and function of the normal human body.

**PRN V004C Practical Nursing Fundamentals (O) 440 hours**

This course teaches fundamental knowledge and technical skills as a basis for nursing care in the classroom and clinical setting. Corequisite: PRN V022. Lab fee \$110.00. Insurance fee \$22.00. Test fee \$21.00.

**PRN V373C Practical Nursing Medical Surgical I (O) 350 hours**

This classroom and clinical course assists the practical nursing student to develop knowledge and skill in the care of patients across the lifespan with selected medical surgical conditions including cardiovascular, respiratory, musculoskeletal, and endocrine. The course focuses primarily on acute care but includes aspects of home health and community based nursing practice. Prerequisite: PRN V004C. Insurance fee \$22.00. Lab fee \$50.00.

**PRN V374C Practical Nursing Medical Surgical II (O) 350 hours**

This classroom and clinical course assists the practical nursing student in developing the knowledge and skill necessary for the care of patients across the lifespan with selected medical surgical conditions including digestive, neuro-sensory, urinary, and reproductive. The course focuses primarily on acute care, but includes aspects of home health and community based nursing practice. Prerequisite: PRN V373C. Insurance fee \$22.00. Lab fee \$25.00.

**PRN V933C Transition to Graduate Practical Nurse (O) 150 hours**

This final classroom and clinical course focuses on the transition from student to graduate, including licensure and employability issues and the role of the LPN on the Health Care Team. Prerequisite: PRN V382C. Insurance fee \$22.00. Test fee \$30.00. Lab fee \$61.00.

- PRN V001C Transition to Practical Nursing Fundamentals (O)** **275 hours**  
This course teaches the certified nursing assistant to transition into Practical Nursing Fundamentals. It builds upon the skills mastered as a nursing assistant. The nursing assistant must meet the advance placement criteria and successfully demonstrate written and skill competencies. This course teaches the nursing student to develop fundamental knowledge and technical skills as a basis for nursing care. Corequisite: PRN V022. Insurance fee \$22.00. Lab fee \$100.00
- NURSING - PATIENT CARE TECHNICIAN**
- HCP V120 Nursing Assistant - Clinical (O)** **40 hours**  
This course teaches the clinical application of nursing assistant classroom theory and laboratory skills practice to prepare the student for the state certification exam for the nurse assistant.
- HCP V330C Home Health Aide (O)** **75 hours**  
This course teaches topics which include the home health industry, responsibilities of the Home Health Aide, understanding client behavior in terms of basic human needs, food selection and preparation, household management, care of the client's environment, personal health, observation, and recordkeeping to the Certified Nursing Assistant (CNA) desiring to become a Home Health Aide. Prerequisite: HCP V410C. Lab fee \$12.00. Insurance fee \$22.00.
- HCP V122 Nursing Assistant - Classroom & Lab (O)** **125 hours**  
This course teaches the classroom theory and laboratory skills practice to prepare students for clinical experience as a nurse assistant. Students learn to identify and meet basic patient care needs for safety, comfort, and activities of daily living.
- HCP V410C Nursing Assistant (O)** **165 hours**  
This course teaches skills for certification and employment as nursing assistants in long-term care facilities. Students learn to identify and meet basic patient care needs for safety, comfort, and activities of daily living. Lab fee \$25.00. Insurance fee \$22.00.
- HCP V620C Patient Care Assistant (O)** **60 hours**  
This course teaches skills necessary for the CNA and Home Health Aide to prepare to function as patients care assistants in the hospital. Prerequisite: HCP V410C. Insurance fee \$22.00.
- HCP V720C Electrocardiograph Aide Clinical (O)** **75 hours**  
Students enrolled in this course have completed the Patient Care Assistant competencies and are adding these skills to be further cross-trained to perform basic electrocardiograph patient care techniques. Course includes patient care experiences in a health care facility. Insurance fee \$22.00. Lab fee \$15.00. Prerequisite: HCP V410C or HSC V003.
- HCP V750C Basic Concepts of Phlebotomy (O)** **75 hours**  
This course provides a general overview and update on those techniques, procedures, and issues pertaining to the proper collection of blood specimens for routine clinical laboratory testing in order to develop well-trained, proficient and professional phlebotomists. Insurance fee \$22.00. Prerequisite: HCP V410C or HSC V003. Lab fee \$40.00.
- HCP V940 Phlebotomy Practicum (O)** **82 hours**  
This course applies practical application and technical performance of phlebotomy in a clinical setting. Prerequisite: HCP V750C with a grade of "C" or higher, HSC V405, and students must have passed a drug screening and FDLE background check.
- HSC V405 Cardiopulmonary Resuscitation (CPR) (O)** **4 - 8 hours**  
This course teaches the skills of CPR for victims of all ages. It is intended for participants who provide health care to patients in a wide variety of settings and who hold current CPR certification and are in need of recertification. Lab fee \$20.00.
- HSC V407 Cardiopulmonary Resuscitation Recertification (CPR) (O)** **4 hours**  
This course teaches the skills of CPR for victims of all ages. It is intended for participants who provide health care to patients in a wide variety of settings. Lab fee \$14.00.

**HSC P410 Citizen CPR and First Aid (O)****8 hours**

This course teaches either the American Heart Association Heartsaver/AED and First Aid, or Heartsaver Infant and Child, and first aid, depending upon the needs of class participants.

**NURSING - SPECIAL TOPIC COURSES****NSP 2290 Perioperative Nursing (O)****6 credits**

This course prepares the registered nurse for the role of the perioperative nurse in establishing and sustaining system equilibrium during the perioperative period. A minimum of two years work experience as an RN is recommended. Insurance fee \$22.00. Lab fee \$50.00.

**NSP 2290L Perioperative Nursing Practicum (O)****3 credits**

This course teaches perioperative nurse practice in surgery and related departments. The course is a supervised clinical preceptorship of patient care during the preop, intraop, and postop care of the surgical patient. Prerequisite: proof of RN license, current CPR.

**HSC 2939 Special Topics in Health (O)****½ - 5 credits**

This course teaches updated information on related health care issues and current practices. This course is custom designed, each time offered. Prerequisite: registered nurse or other health care professional.

**HSC P931 Special Topics in Health (O)****1 - 60 hours**

This course provides health care professionals and/or the general public with updates on personal and community health issues.

**NSP P933 Intravenous Therapy for Practical Nurses (O)****36 hours**

This course teaches intravenous therapy to licensed practical nurses. It contains the education and training requirements necessary to qualify the LPN to administer I.V. fluids as stated in Florida Board of Nursing Rules. Prerequisite: student must be GPN, GN, RN or LPN. Lab fee \$55.00. Insurance fee \$22.00.

**OFFICE ADMINISTRATION CAREERS****OST 1766 WordPerfect I (O)****3 credits**

This course teaches word processing using WordPerfect software on the microcomputer. WordPerfect is a full-feature word processing applications program. Lab fee \$20.00.

**HSC 2532 Medical Terminology II (O)****2 credits**

This course teaches the language of medicine in the areas of specialization including radiology, pathology, anesthesiology, cancer medicine, chemotherapy, and endocrine disorders. Prerequisite: HSC 2531.

**OST 1713 Microsoft Word (O)****3 credits**

This course teaches Microsoft Word software through hands-on instruction. Using an exercise-oriented approach, students become proficient in the application of Microsoft Word. Keyboarding skills are recommended.

**OST 2601 Transcription Technologies (O)****3 credits**

This course teaches transcription of mailable copy from a variety of office dictating machines. Provides opportunity for specialization in general, legal, and medical transcription. Designed for both the secretarial and clerical office student. Keyboarding skills recommended. Lab fee \$20.00.

**OST 2821 Desktop Publishing (O)****3 credits**

This course emphasizes assembling and designing publications, such as brochures, flyers, newsletters, and business reports, using full-feature electronic publishing software. The student learns to use the personal computer, mouse, laser printer, and scanner as the primary workstation for preparing documents that include text with a variety of typefaces, graphics, and illustrations. Lab fee \$20.00.



- OTA V001 Office Support Technology I (O)** **75 hours**  
 This course includes intermediate typing, filing, communications, ten-key calculator touch, transcription, word processing, and office etiquette skills. This course also provides supplemental training for persons previously or currently employed. Prerequisite: OTA V006 or permission of instructor.
- OTA V002 Office Support Technology II (O)** **75 hours**  
 This course prepares students for employment as general office clerks, typists, file clerks, office systems clerks, government record clerks, and clerical office trainees. It also provides supplemental training for persons previously or currently employed in these occupations. Prerequisite: OTA V001 or permission of instructor.
- OTA V005 Office Skills Training I (O)** **75 hours**  
 This course includes basic typing, filing, communications, ten-key calculator touch, transcription, word processing, and office etiquette skills. This course also provides supplemental training for persons previously or currently employed.
- OTA V006 Office Skills Training II (O)** **75 hours**  
 This course prepares students for employment as general office clerks, typists, file clerks, office systems clerks, government record clerks, and clerical office trainees. It also provides supplemental training for persons previously or currently employed in these occupations. Prerequisite: OTA V005 or permission of instructor. Lab fee \$18.00.
- OTA V031 Computer Applications I (O)** **75 hours**  
 This course teaches how to operate computers. Instruction includes the review of program instructions, determination of procedures for a specific run, readying equipment for operation, manipulation and monitoring of controls during operation, trouble-shooting, and on/off operations. Prerequisite: OTA V002.
- OTA V032 Computer Applications II (O)** **75 hours**  
 This course teaches how to operate computers. Instruction includes the review of program instructions, determination of procedures for a specific run, readying equipment for operation, manipulation and monitoring of controls during operation, trouble-shooting, and on/off operations. Prerequisite: OTA V031.
- OCA V312 Office Communications I (O)** **75 hours**  
 This course provides a basic overview of written communication used in today's business environment. Emphasis is placed on developing proficiency with fundamental language and writing skills and computer applications of keyboarding and word processing. These skills are used as communication tools for enhancing personal and workplace proficiency in an information based society. Prerequisite: OTA V032.
- OCA V313 Office Communications II (O)** **75 hours**  
 This course is builds on Office Communications I and provides a more advanced overview of written communication. Emphasis is placed on developing additional language and writing skills with the use of advanced computer applications and enhancements. These skills may be used as communication tools for acquiring employment and increasing professional opportunities. Prerequisite: OCA V312.
- OCA V100 Computer Concepts (O)** **50 hours**  
 This course provides the basic skills required for computer usage. Computer applications software are used to complete basic forms of computer functions of input, edit, store, and retrieval. Prerequisite: OTA V006.
- OTA V948 Business Cooperative Education I – OJT (O)** **150 hours**  
 This course teaches the on-the-job training component to more effectively prepare students for employment in the occupation chosen by the student. The course provides an optional simulation work-experience to prepare students for employment in the workplace. Prerequisite: OTA V032.

**OTA V949 Business Cooperative Education II – OJT (O) 150 hours**

This course teaches the on-the-job training component to more effectively prepare students for employment in business occupations. On-the-job experiences develop occupational competencies required in the occupation chosen by the students for employment in the workplace. Prerequisite: OTA V948.

**OTA V612 Medical Terminology I (O) 75 hours**

This course prepares students to perform secretarial duties utilizing knowledge of medical terminology and medical office procedures. Instruction also includes transcription of reports, such as case histories, and the use of legal and insurance forms. Prerequisite: OTA V006.

**OTA V613 Medical Terminology II (O) 75 hours**

This course gives additional instruction in secretarial duties utilizing knowledge of medical terminology and medical office procedures. Instruction also includes transcription of reports, such as case histories, patient billing, and the use of legal and insurance forms. Prerequisite: OTA V612 or OTA V006 and MEA V500.

**OTA V100 Data Entry I (O) 75 hours**

This course provides a foundation for all business education programs and includes the following areas: keyboarding, math, communication, human relations, consumer economics, and job application procedures. The course also provides an introduction to computers and their usefulness in the business world. Prerequisite: OTA V006.

**OTA V425 Date Entry II (O) 75 hours**

This course provides additional information in computer usage and develops entry-level skills for computer-related occupations using database, spreadsheet, and text editing. Prerequisite: OTA V100.

**OTA V470 Legal Technology I (O) 75 hours**

This course teaches office duties and procedures specific to the legal environment. It promotes application of higher level legal office procedures, tasks, legal terminology and communication skills. Prerequisite: OTA V005, OTA V006, OTA V001, OTA V002.

**OTA V472 Legal Technology II (O) 75 hours**

This course expands the competencies learned in Legal Technology I. Students perform higher level thinking and decision-making and use technology as a resource to efficiently perform systematic procedural tasks and to produce quality work in a professional manner. Students transcribe legal documents from machine dictation. Prerequisite: OTA V005, OTA V006, OTA V001, OTA V002.

**ORGANIZATIONAL MANAGEMENT****ACG 3024 Accounting for Non-Financial Majors (U) 3 credits**

This course addresses the use of accounting information by non-financial managers. Emphasis is placed on the interpretation of accounting information and the language of financial accounting to effectively participate in activities such as planning, investment, control, and managerial decision making. Prerequisite: MAC 1105, junior level status is required, or permission of the Department Chair.

**BUL 3130 Legal Social Aspects of Business (U) 3 credits**

This course explores the nature of legal, ethical, and societal environments of business. Emphasis is placed on business's 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.

**GEB 4930 Selected Topics in Management (U) 3 credits**

This course teaches the application of management skills through the use of current topics, issues, and trends pertinent to supervisors and managers which are explored and discussed.

- GEB 3213 Business Writing (U)** 3 credits  
This course teaches 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.
- FIN 3400 Financial Management (U)** 3 credits  
This course teaches a firm understanding of all elements of organizational finance, from budget development to finance management, and from procurement to accounting and auditing. In addition, the course explores alternative sources of finance in various types of public and private organizations. A key component of the course is the student's preparation and presentation of an organizational budget. Prerequisite: ACG2001 and ACG 2011; or ACG 2071; or FIN 2001.
- GEB 4891 Strategic Planning (U)** 3 credits  
This course teaches 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 plan. Case studies are used to develop decision-making abilities.
- ISM 3011 Introduction to Management Information Systems (U)** 3 credits  
This course teaches an introductory use of information technology in the business environment. The language, concepts, structures, and processes involved in the management of information systems are discussed. The course has an applications component where software is used to support managerial decision-making.
- MAN 3240 Organizational Behavior (U)** 3 credits  
This course teaches individual and group behavior in organizations. Students 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 3303 Management and Leadership (U)** 3 credits  
This course teaches the basic concepts, principles, and techniques of business leadership. Emphasis is on developing a solid leadership foundation while centering in the real themes, demands, and opportunities of an evolving and dynamic business workplace. This course incorporates basic leadership skill development as it relates to the core aspects of the management practice.
- MAN 4504 Operations Management (U)** 3 credits  
This course teaches the operational decision-making management techniques to improve the processes and productivity in organizations. Topics discussed are 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 4162 Customer Relations for Managers (U)** 3 credits  
This course teaches 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 (U)** 3 credits  
This course teaches 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 are also discussed.

**MAN 4120 Leadership Challenges and Supervision (U) 3 credits**

This course teaches the application of leadership theories which include skill formation to develop leadership abilities. Team building skills are emphasized and discussed to enhance leadership effectiveness. Students learn the importance of visioning in their organizations.

**MAN 4900 Capstone Project in Organizational Management (U) 6 credits**

This course teaches the integration of knowledge, skills and abilities learned in the Organizational Management program through a Capstone project. Prerequisite: BUL 3130, ACG 3024, ISM 3011, MAN 3240, MAN 3303, MAN 4301, GEB 3213, MAN 4120, MAN 4162, MAN 4504. Pre/corequisite: GEB 4891, GEB 4930.

**PARALEGAL STUDIES/LEGAL ASSISTING****PLA 1104 Legal Research and Writing I (0) 3 credits**

This course provides an introduction to legal research. Students use treatises, encyclopedias, digests, reporters, statutes, and Shepard's Citations to analyze legal problems and write legal memoranda.

**PLA 1610 Real Estate and Property Law (0) 3 credits**

This course familiarizes students with the law of real property. Ownership of real property, real estate transactions, easements, encumbrances, real estate contracts, and real estate closings are reviewed. Additionally, students examine deeds, mortgages, leases, and contracts.

**PLA 1763 Law Office Management (0) 3 credits**

This course teaches students the fundamentals of maintaining files, hiring personnel, purchasing equipment, and other tasks related to the management of a law office. Students also discuss and analyze ethical problems.

**PLA 1931 Special Topics in Law (0) 1 credit**

This course outlines contemporary issues and problems in the legal field. It focuses on the latest developments in domestic relations, estate planning, litigation, bankruptcy, contracts, and criminal justice.

**PLA 2003 Introduction to Paralegal Studies (0) 3 credits**

This course provides an overview of the training and purpose of legal assistants and examines the roles of lawyers and legal assistants in modern society, defines the ethical and professional practice standards applicable to attorneys and legal assistants, and surveys various fields of law.

**PLA 2058 Survey of Law (0) 3 credits**

This course provides an understanding of various areas of law: criminal, contracts, torts, constitutional law, estates, and corporations. Students are exposed to the legal system, providing a foundation for subsequent legal courses.

**PLA 2114 Legal Research and Writing II (0) 3 credits**

This course provides students with the advanced research and writing skills needed in the legal assistant profession, including drafting legal memoranda, case briefs, trial briefs, and appellate briefs. Prerequisite: PLA 1104.

**PLA 2203 Civil Litigation I (0) 3 credits**

This course provides students with skills and knowledge to aid the trial attorney in preparing for civil litigation in Florida and federal courts. Topics include the Federal Rules of Civil Procedure, the Florida Rules of Civil Procedure, drafting of pleadings and motions, jurisdiction, and alternatives to litigation.

**PLA 2423 Contracts (0) 3 credits**

This course provides an overview of contract law with emphasis on understanding the rights and duties of parties entering into contracts. Topics include the elements of contracts, enforcement of contracts, third party contracts, termination of contracts, and remedies for breach of contracts.

- PLA 2223 Civil Litigation II (0) 3 credits**  
 This course presents the topics of discovery, pretrial preparation, trial practice, and appellate procedure (Federal and Florida). Students obtains skills in drafting motions and discovery documents. Prerequisite: PLA 2203.
- PLA 2273 Torts (0) 3 credits**  
 This course presents the principles of tort law, including an examination of personal injury, intentional torts, negligence, and products liability.
- PLA 2433 Corporate and Business Law (0) 3 credits**  
 This course examines the legal functions of corporations, general partnerships, limited partnerships, sole proprietorships, and limited liability companies. Students learn the creation, management, duration, liability, and taxation of business organizations.
- PLA 2460 Bankruptcy Law (0) 3 credits**  
 This course examines the principles, purposes, and procedures for filing bankruptcies under current bankruptcy laws.
- PLA 2483 Administrative Law (0) 3 credits**  
 This course examines administrative agency functions in the federal government. Topics include formal rulemaking, informal rulemaking, investigations, reporting, administrative hearings, and the Freedom of Information Act.
- PLA 2600 Estate Planning and Probate Administration (0) 3 credits**  
 This course examines wills, trusts, estates, and probate administration. Students are introduced to various types of probate proceedings, intestate succession, organization of probate documents, and drafting of trusts and wills.
- PLA 2661 Federal Estate and Gift Tax (0) 3 credits**  
 This course familiarizes students with federal estate taxes, including computation and valuation of the gross estate, deductions, and forms; federal gift taxes, and generation skipping transfers. Prerequisite: PLA 2600.
- PLA 2800 Family Law (0) 3 credits**  
 This course familiarizes students with the fundamental principles and rules relating to family law including a study of marriage, child custody, adoption, child and spousal support provisions, separation agreements, property disposition, and dissolutions of marriage.
- PLA 2949 Internship in Paralegal Studies (0) 4 credits**  
 This course is a cooperative education course that reinforces the educational and professional growth of students through experience in the student's chosen career. The student and instructor determine a training plan, with the instructor evaluating the student's performance by communication with the student's supervisor. Prerequisite: PLA 1104.

**PHARMACY TECHNOLOGY**

- PTN V000 Pharmacy Technician Orientation (0) 60 hours**  
 This course teaches an introduction to the pharmacy technician profession including the job description of a pharmacy technician, licensure requirements and work environments. Topics covered are legal and ethical issues, job skills and duties, verbal and written communication skills, professional resources, safety techniques, supply and inventory techniques and use of related software. Prerequisite: Admission to the Pharmacy Technician Program. Insurance fee \$22.00.
- PTN V031 Introduction to Institutional Pharmacy (0) 250 hours**  
 This course reviews the clinical experiences encountered in the inpatient, acute care setting. Experiences include continued training of Practicum I objectives as they relate to the acute care setting (Hospital Pharmacy) in addition to intravenous fluid therapy, chemotherapy drugs, and assisting with dispensing of medication in in-patient and nontraditional settings (mail order, nursing home, home care). Prerequisite: PTN V032L. Insurance fee \$22.00.

- PTN V030 Introduction to Community Pharmacy (O) 250 hours**  
This course reviews the clinical experiences encountered in the retail environment. Students apply the concepts learned in classroom/lab setting in the workplace. Specific attention is directed to the ambulatory care setting. Prerequisite: PTN V000, PTN V032L. Insurance fee \$22.00.
- PTN V032L Pharmacy Operations I (O) 50 hours**  
This course teaches the concepts and skills necessary to interpret, prepare, label, and maintain records of physician's medication orders and prescriptions in a retail pharmacy setting. Individuals are trained in the methods of supply and inventory control and data entry. Topics include customer service and advisement, count and pour techniques, drug selection and preparation, over-the-counter maintenance, data input and editing, and quality assurance procedures. The use of pharmacological software utilized in retail is integrated throughout the course. Corequisite: HSC V003.
- PTN V033L Pharmacy Operations II (O) 60 hours**  
This course teaches the mastery of skills to include sterile procedures and aseptic techniques in parenteral compounding, proper use of equipment (autoinjections, pumps), preparation of sterile products (intravenous, irrigation, ophthalmic, total parenteral nutrition, and chemotherapy drugs), and safe handling of antineoplastic drugs. Corequisite: MEA V231, HSC V530C.
- PTN V015 Pharmaceutical Calculations (O) 60 hours**  
This course teaches topics related to pharmaceutical mathematics including reading, interpreting, and solving calculation problems encountered in the preparation and distribution of drugs. Conversion of measurements within the apothecary, avoirdupois, and metric systems with emphasis on the metric system of weight and volume are covered. Ratio, proportion, percentage, dilution and concentration, milliequivalent units, intravenous flow rates, and dosage problems are presented. Prerequisite: PTN V032L.
- PTN V093 Pharmacy Technician Review Course (O) 45 hours**  
This course prepares pharmacy technician students to sit for the National Pharmacy Technician Certification Examination. Course participants receive a comprehensive review based on the certification exam content identified by the Pharmacy Technician Certification Board. Prerequisite: Admission to the Pharmacy Technician Program.
- PTN V023 General Pharmacology (O) 90 hours**  
This course teaches drugs, abbreviations, classifications, dosages, physiologic responses and routes of administration. Prerequisite: PTN V032L.

## PHILOSOPHY

- HUS 2500 Introduction to Ethics in Human Services (P) 3 credits**  
This course explores ethical decision making, responsibility, the therapist-client relationship, confidentiality, suicide and intervention, involuntary institutionalization, the sanity defense, the ethics of behavior control, ethical problems in marriage, professional and legal regulations, ethical theory and counseling approaches, and the place of values in counseling and psychotherapy.
- PHI 1639 Ethics in the Electronic Frontier (P) 3 credits**  
This course teaches an in-depth exploration and analysis of a broad range of topics concerning the ethical implications of the widespread use of computer technology. Topics include the immediate and future implications of the growth and integration of the Internet. Additional topics include the relationship between technology and social change, and values and technology. The theory and practice of computer ethics is studied for ethical decision making and the methodology for reaching ethical decisions concerning computing matters. Prerequisite: student must score into college-level English and reading on placement test.

- PHI 1930 Eastern Philosophies (P)** **3 credits**  
 This course examines the history, practices, and basic tenets of the three major Eastern philosophies. This course addresses the interesting exchange of ideas between Jewish, Christian, and Buddhist leaders and their philosophies.
- PHI 1103 Critical and Creative Thinking (P)\*** **3 credits**  
 This course is an introduction to logic, which stresses practice and application. The course provides practice in recognizing and avoiding inaccurate or fallacious thinking and promotes correct and creative thinking. Theory and theoretical principles are kept to a minimum. Students demonstrate college-level writing skills through multiple assignments. Prerequisite: student must score into college-level English and reading on placement test.
- PHI 1635 Ethical Issues in Health Care (P)\*** **3 credits**  
 This course teaches ethical analysis and decision-making in health care. It addresses moral and legal aspects of confidentiality and informed consent, codes of ethics, end of life decisions, living wills, euthanasia, assisted suicide, resource allocation, reproductive ethics, and abortion.
- PHI 2630 Introduction to Ethics (P)\*** **3 credits**  
 This course teaches ethical theories and methods of analysis and applies these to contemporary ethical problems such as those of human cloning, euthanasia, capital punishment, welfare and social justice, job discrimination, animal rights, and environmental ethics. Students demonstrate college-level writing skills through multiple assignments. Prerequisite: student must score into college level English and reading on placement test.
- PHI 2100 Introduction to Logic (P)** **3 credits**  
 This course studies formal, deductive logic including the logic of syllogism and truth functions. Emphasis is placed on developing techniques for distinguishing valid arguments from invalid ones, such as hypothetical and categorical arguments, natural deduction, and truth table construction. Prerequisite: student must score into college-level English and reading on placement test.
- PHI 1603 Philosophical Concepts (P)** **1 credit**  
 This course serves as a critical inquiry into selected philosophical concepts in ethics, value theory, theory of knowledge, metaphysics, logic, or related areas of philosophy.
- PHI 1450 Philosophy of Psychology (P)** **3 credits**  
 This course investigates key philosophical assumptions, theories and concepts underlying psychotherapy and psychology. Items investigated include the nature of mental illness, perception and mental activity, consciousness, and emotions and values.

## PHOTOGRAPHY

- PGY 1404 Advanced Photography (0)** **1 credit**  
 This course is designed as a follow-up to PGY 1142C. This course concentrates on flash photography, studio portrait photography, and creating art forms with your photography. Prerequisite: PGY 2930 or permission of instructor.
- PGY 1401 Photography I (0)** **2 credits**  
 This course teaches basic technical and esthetic skills relative to photography. The course is suitable for all levels of photographic skill. Subjects such as depth of field, shutter speeds, and flash are mixed with lessons on composition and creativity. Student must have a 35 mm camera and instruction manual.
- PGY 2930 Special Topics in Photography (0)** **2 credits**  
 This course covers portraiture and photographic lighting techniques. Topics include development of expertise in camera skills and introduces students to the use of filters and filtering systems. Prerequisite: PGY 1144 or permission of instructor.

\*GORDON RULE COURSE - must achieve a grade of "C" or higher for the A.A. Degree.

**PHYSICAL EDUCATION/RECREATION/WELLNESS**

- HLP 1081 Personal Wellness (P)** **3 credits**  
This course establishes in students a lifestyle conducive to total wellness, which involves an awareness and appreciation for the values of holistic health and physical fitness.
- HSC 1101 Developing Personal Well-Being (P)** **1 credit**  
This course introduces students to a holistic approach to personal health and well-being. Self-assessment is an integral part of the course and positive behavior change is encouraged.
- HSC 2100 Personal and Community Health (P)** **3 credits**  
This course examines the physiological and psychological bases for health, health hazards, fitness, and family living.
- HSC 2400 First Aid and Safety (P)** **3 credits**  
This course examines the basic and advanced instruction in First Aid principles and skills which enable the individual to act in emergency situations.
- PEL 2211 Softball (P)** **1 credit**  
This course presents the skills, techniques of participation, teamwork, sportsmanship, and rules of softball. This course may be repeated for credit. Begins on date assigned by NJCAA. Prerequisite: permission of instructor.
- PEL 2219 Baseball (P)** **1 credit**  
This course presents the skills, techniques of participation, strategy, and rules of baseball. May be repeated for credit. Begins on date assigned by NJCAA. Prerequisite: permission of instructor.
- PEL 2324 Volleyball (P)** **1 credit**  
This course presents the skills, techniques of participation, strategy, and rules of volleyball. May be repeated for credit. Begins on date assigned by NJCAA. Prerequisite: permission of instructor.
- PET 2622 Care and Prevention of Athletic Injuries (P)** **3 credits**  
This course teaches the knowledge and ability to make educated decisions regarding the most appropriate course of action when confronted with an injured athlete. The focus is on recognition of serious, life-threatening conditions as well as less serious injuries that must be referred to a medical doctor.
- PEN 2124 Swimming (P)** **1 credit**  
This course presents the skills, techniques of participation, strategy, and rules of swimming. May be repeated for credit. Begins on date assigned by NJCAA.
- PET 1762 Fundamentals of Specific Sports (P)** **3 credits**  
This course teaches practical coaching fundamentals of basketball, tennis, swimming, baseball, volleyball, soccer, and football.
- PEL 2624 Basketball (P)** **1 credit**  
This course presents the skills, techniques of participation, strategy, and rules of basketball. May be repeated for credit. Begins on date assigned by NJCAA. Prerequisite: permission of instructor.
- PEO 2013 Sports Officiating (P)** **3 credits**  
This course includes theory and practice of officiating football, basketball, and baseball.
- PET 2760 Principles of Coaching (P)** **3 credits**  
This course teaches the knowledge of the characteristics, principles, ethics, and theories related to coaching sports in the educational and recreational settings. Emphasis is placed on preparing coaches to train athletes to achieve maximum levels of performance.



**PHYSICAL SCIENCES**

- AST 1002 General Astronomy (P) 3 credits**  
This course teaches the methods and instruments used by astronomers; provides an understanding of the earth as an astronomical body; and investigates the structure and contents of the solar system, the galaxy, and the universe.
- AST 1002L General Astronomy Laboratory (P) 1 credit**  
This course teaches practical lessons and exercises in astronomy and scientific observations of astronomical phenomena related to the General Astronomy curriculum. Corequisite: AST 1002. Lab fee \$30.00.
- AST 1042 History of Astronomical Concepts (P) 3 credits**  
This course covers history and literature as well as the actual exploration of natural, historical, or modern astronomy sites in order to better understand select topics in the history of astronomy. Lectures, discussions, research, and physical examination of astronomical techniques as used in ancient, historical, or modern observatories helps students to gain knowledge concerning the role of astronomy in civilization and emphasis on astronomers' gradual recognition of the physical nature of the sun, planets, stars, galaxies, and other celestial objects.
- AST 1930 Exploring Stars and Planets 1 credit**  
This course introduces students to the contents of the universe with special emphasis on practical astronomy, telescope operation, constellation recognition, ephemeral sky events such as eclipses, comets and meteor showers, and basic observing techniques for viewing stars and planets.
- AST 1931 Planetarium Technical Lab (P) 1 credit**  
This course is offered as an independent student program for student interested in learning how to operate a planetarium. Major topics for investigation include: planetarium maintenance, creation of education programming multi-media production techniques, K-12 education curricula, logistics of field trip experiences, public programming, and presentations. Prerequisite: AST 1002 and student must test into college-level English, mathematics, and reading on placement test.
- ESC 1000 Earth Science (P) 3 credits**  
This course is designed for nonscience majors and studies basic principles of astronomy, geology, and meteorology. The topics include various rock types, sedimentations, geologic structure, the earth and its origins, the solar system, the universe including modern theories, weather systems, and how weather is predicted.
- GLY 1010 Introduction to Geology (P) 3 credits**  
This course introduces the basic principles of geology, relating to sedimentation, structural deformations, erosion and weathering. Topics covered include identification of rocks and minerals, the rock cycle, historical geology, volcanism, earthquakes, plate tectonic theory, and physical evolution of the Earth. The practical applications of geology in a profession or in a research field are also addressed. Prerequisite: students must score into college-level reading on placement test.
- PSC 1341 Physical Science (P) 3 credits**  
This course includes basic principles of physics and chemistry, with practical application of the laws of science in problems. Includes Newton's law of motion, forces, work, energy, Periodic Law, chemical elements, compounds, and mixtures. Prerequisite: MAT1033 or higher and student must test into college-level reading on placement test.
- PSC 1341L Physical Science Lab (P) 1 credit**  
This is the lab component for Physical Science. Lab experiences include the following topic areas of physics and chemistry with practical application of the laws of science in problems. Prerequisite: student must score into college-level reading on placement test. Prerequisite/ Corequisite: PSC 1341. Lab fee \$30.00.

**MET 1001 Weather and Climate (P) 3 credits**

This course teaches basic weather patterns and climatic situations.

**PHYSICAL THERAPIST ASSISTANT****PHT 1004 Introduction to Physical Therapy (O) 2 credits**

This course is an introduction to the profession of physical therapy emphasizing historical background, role orientation, legal and ethical issues, professional organizational structure, modality principles, and basic patient care skills. Incorporates body mechanics, patient positioning, gait training, and wheel chair prescriptions. Prerequisite: BSC 2010 and BSC 2010L. Corequisite: PHT 1004L, PHT 1121, PHT 1121L.

**PHT 1004L Introduction to Physical Therapy Lab (O) 2 credits**

This course consists of the laboratory sessions for PHT 1004. Includes practice in skill activities emphasizing body mechanics, positioning techniques, transfers, gait training, and basic patient care. Prerequisite: BSC 2010 and BSC 2010L. Corequisite: PHT 1004, PHT 1121, PHT 1121L. Insurance fee \$22.00. Lab fee \$80.00.

**PHT 1121 Functional Anatomy and Kinesiology (O) 3 credits**

This course includes the study of the structure and function of the musculoskeletal system with emphasis on the mechanical (functional) aspects of human motion. Actions, origins, and insertions of muscles are presented. Muscle testing, goniometry, and the aspects of normal functional gait and posture related to therapeutic exercise are discussed. Prerequisite: BSC 2010 and BSC 2010L. Corequisite: PHT 1121L, PHT 1004, PHT 1004L.

**PHT 1121L Functional Anatomy and Kinesiology Lab (O) 2 credits**

This course consists of the laboratory sessions for PHT 1121. Includes the development of student skills in palpations of bony landmarks, goniometry, muscle testing, basic gait analysis of muscle function as it relates to biomechanical principles of human motion and therapeutic exercise. Prerequisite: BSC 2010 and BSC 2010L. Corequisite: PHT 1121, PHT 1004, PHT 1004L. Lab fee \$100.00.

**PHT 1300 Survey of Pathological Deficits (O) 3 credits**

This course provides basic knowledge of diseases of the human body. Emphasis is on the description, etiology, signs and symptoms, diagnostic procedures, treatment, prognosis and prevention of pathologies most commonly treated in physical therapy. Corequisite: PHT 1211, PHT 1211L.

**PHT 1211 Disabilities and Therapeutic Procedures I (O) 2 credits**

This course introduces the theory and practical application of physical therapy modalities used by the Physical Therapist Assistant. Physical principles, physiological effects, indications/contraindications of therapeutic heat and cold, ultrasound, traction, intermittent compression electrotherapy, radiant therapy, hydrotherapy, and massage on the body are presented. Chest physical therapy is included. Prerequisite: PHT 1004, PHT 1121. Corequisite: PHT 1211L, PHT 1300.

**PHT 1211L Disabilities and Therapeutic Procedures Lab (O) 2 credits**

This course consists of the laboratory sessions for PHT 1211. Includes practice in skill performance of all modalities/procedures presented in Disabilities and Therapeutic Procedures I. Prerequisite: PHT 1004L, PHT 1121L. Corequisite: PHT 1211, PHT 1300. Lab fee \$20.00.

**PHT 1351 General Pharmacology for Physical Therapist Assistants (O) 1 credit**

This course teaches basic pharmacological concepts and principles in the management of specific patient diagnosis and medical conditions. Specific drugs and therapeutic effects associated with patients receiving physical therapy treatment are discussed. Medical error relating to the physical therapist assistant's role in the care and treatment of physical therapy patients are also included. Prerequisite: PHT 1121, PHT 1121L, PHT 1004, PHT 1004L. Corequisite: PHT 1300.

- PHT 2224 Disabilities and Therapeutic Procedures II (O) 2 credits**  
This course introduces concepts of therapeutic exercise including principles, objectives, categories, and various applications of specific exercise regimens. Emphasis is on the etiology symptoms, prevention and treatment of selected orthopedic, medical, and surgical conditions encountered in the field of physical therapy. Prerequisite: PHT 1211, PHT 1121. Corequisite: PHT 1801, PHT 2224L. Lab fee \$20.00.
- PHT 2224L Disabilities and Therapeutic Procedures II Lab (O) 1 credit**  
This course consists of the laboratory sessions for PHT 2224 providing the practical application of various therapeutic exercises. Exercise programs for specific orthopedic/medical conditions are presented and practiced. Prerequisite: PHT 1211, PHT 1121. Corequisite: PHT 2224.
- PHT 2162 Survey of Neurological Deficits (O) 3 credits**  
This course consists of the nervous system including basic neuroanatomy, sensory and motor systems, neurodevelopmental sequence, reflexes and selected neurological disabilities commonly seen in the field of physical therapy. Emphasis is on the etiology, pathology, and clinical picture of diseases. Prerequisite: PHT 2224, PHT 2224L. Corequisite: PHT 2810.
- PHT 2703 Rehabilitative Procedures (O) 2 credits**  
This course consists of the development of advanced knowledge in approaches to physical therapy treatment. Emphasis is on treatment techniques, for brain injury, amputations, spinal cord injury, cardiac, and genetic/congenital disorders. Prerequisite: PHT 2162. Corequisite: PHT 2820, PHT 2703L.
- PHT 2703L Rehabilitative Procedures Lab (O) 1 credit**  
This course consists of the laboratory sessions for PHT 2703. It includes utilization of developmental postures in treatment, facilitation/inhibition techniques, and other forms of advanced therapeutic exercises. Management and treatment of the amputee is discussed and practiced. Prerequisite: PHT 2162. Corequisite: PHT 2703, PHT 2820, PHT 2931. Lab fee \$50.00.
- PHT 1801 Clinical Practice I (O) 2 credits**  
This course entails the first assignment in clinical education. Each student is assigned to a clinical facility and performs various physical therapy, modalities, and basic exercises, under the close supervision of a physical therapist. Scheduled class meetings are included to discuss requirements for the course with discussion on professionalism, attitudes, patient rapport, etc. A clinical journal of daily experiences, activities, and SOAP notes are required. Prerequisite: PHT 1211, PHT 1121. Corequisite: PHT 2224, PHT 2224L.
- PHT 2810 Clinical Practice II (O) 8 credits**  
This course entails the second assignment in clinical education. Each student is assigned to a clinical facility and performs intermediate physical therapy treatment techniques; scheduled class meetings are included to share patient care experiences. A clinical journal and case study report are required. Prerequisite: PHT 1801. Corequisite: PHT 2162. Insurance fee \$22.00.
- PHT 2820 Clinical Practice III (O) 7 credits**  
This course entails the third and final assignment in clinical education. Each student is assigned to a clinical facility and performs advanced skills in critical thinking in approaching patient treatment and procedures. Scheduled class meetings are included to discuss clinical experiences. A clinical journal and case study report are required. Prerequisite: PHT 2810. Corequisite: PHT 2703, PHT 2703L, PHT 2931.
- PHT 2931 Transition Seminar (O) 2 credits**  
This course consists of discussion and a seminar type class which explores the newer trends involving the professional team, the professional organization and legislation. Topics include trends, specialized practice, patient services, case studies, integrating theory and practice, and the employment process. Prerequisite: PHT 2162. Corequisite: PHT 2703, PHT 2703L, PHT 2820.

**PHT 2203 Manual Techniques I (O) 3 credits**

This course teaches the history, theory, terminology, physiology, pathology, and basic techniques of massage used during stages of rehabilitation. Course includes aspects of ethics, law, business, and marketing in the field of massage. Prerequisite: A.S. Degree in Physical Therapist Assistant. Lab fee \$10.00.

**PHT 2203L Clinical Practicum in Manual Techniques I (O) 2 credits**

This course teaches Swedish and structural based therapeutic massage techniques. The student practices these techniques in a supervised laboratory/clinical setting. Prerequisite: A.S. Degree in Physical Therapist Assistant. Insurance fee \$22.00.

**PHT 2204 Manual Techniques II (O) 3 credits**

This course teaches advanced techniques further developing the student's use and integration of structural-based and energy-based body systems. Topics include trigger point therapy, myofascial release, and other advanced therapy applications. Prerequisite: A.S. Degree in Physical Therapist Assistant.

**PHT 2204L Clinical Practicum in Manual Techniques II (O) 2 credits**

This course teaches advanced hands-on techniques and sequences to balance the various energy patterns of the physical body. The student practices techniques in a supervised laboratory/clinical setting. Prerequisite: A.S. Degree in Physical Therapist Assistant. Lab fee \$10.00.

**PHYSICS****PHY 1020 Principles of Physics (P) 3 credits**

This course is both a classic and technical physics course. It emphasizes both physical principles and physics applications in today's world. The student learns the scientific method of problem solving, as well as developing critical thinking and reasoning skills. Topics include, but are not limited to measurement, problem solving, motion, force, work, energy, simple machines, rotational motion, matter, fluids, temperature and heat, gas laws, wave dynamics, electricity, magnetism, and optics. Recommended Prerequisite: MAT 1033.

**PHY 2048 Physics for Engineers I (P) 3 credits**

This course is for students seeking degrees in Engineering and Physics. This is a calculus-based course covering Newtonian mechanics, including motion, vectors, Newton's laws, work and conservation of energy, systems of particles, collisions, equilibrium, oscillations, and waves. Prerequisite: MAC 2311 or higher and student must test into college-level reading on placement test. Corequisite: PHY 2048L.

**PHY 2048L Physics for Engineers I Lab (P) 1 credit**

This is the lab component for Physics for Engineers I. Lab experiences include the areas of Newtonian mechanics, including motion, vectors, Newton's laws, work and conservation of energy, systems of particles, collisions, equilibrium oscillations, and waves. Prerequisite: Student must score into college-level mathematics and reading on placement test. Corequisite: PHY 2048. Lab fee \$30.00.

**PHY 2049 Physics for Engineers II (P) 3 credits**

This course is a continuation of PHY 2048 including Coulomb's Law, electric fields and potentials, capacitance, currents and circuit, Ampere's Law, Faraday's Law, inductance, Maxwell's equations, electromagnetic waves, ray optics, interference, and diffraction. Prerequisite: PHY 2048, PHY 2048L. Prerequisite/Corequisite: MAC 2312. Corequisite: PHY 2049L.

**PHY 2049L Physics for Engineers II Lab (P) 1 credit**

This is the lab component for Physics for Engineers II. Lab experiences include Coulomb's Law, electric fields and potentials, capacitance, currents and circuits, Ampere's Law, Faraday's Law, inductance, Maxwell's equations, electromagnetic waves, ray optics, interference, and diffraction. Prerequisite: PHY 2048, PHY 2048L. Corequisite: PHY 2049. Lab fee \$30.00.

**PHY 2053 College Physics I (P)****3 credits**

This course is designed for science majors. This course covers structure and properties of matter; kinematics, dynamics and statics; momentum and energy; rotation, elasticity, vibration; fluids, temperature and expansion; heat transfer, thermal behavior of gases, wave motion, and sound. Prerequisite/corequisite: MAC 1114 and student must score into college-level reading on placement test. Corequisite: PHY 2053L.

**PHY 2053L College Physics I Lab (P)****1 credit**

This is the lab component for College Physics I. Lab experiences include structure and properties of matter, kinematics, dynamics and statics; momentum and energy; rotation, elasticity, vibration; fluids, temperature and expansion; heat transfer and thermal behavior of gases; wave motion, and sound. Prerequisite: MAC 1114 and student must test into college-level reading on placement test. Prerequisite/Corequisite: PHY 2053. Lab fee \$30.00.

**PHY 2054 College Physics II (P)****3 credits**

This is a continuation of PHY 2053. Topics include electric charge, fields and circuits; eletromagnetism, and applied electricity; geometrical wave, and applied optics; electrons and photons; atoms, and nuclei. Prerequisite: PHY 2053, MAC 1114. Corequisite: PHY 2054L.

**PHY 2054L College Physics II Lab (P)****1 credit**

This is the lab component for PHY 2054. Topics include electric charge, fields and circuits; electromagnetism, applied electricity; geometrical, wave, and applied optics; electrons and photons; atoms, and nuclei. Prerequisite: MAC 1114, PHY 2053L. Prerequisite/corequisite: PHY 2054. Lab fee \$30.00.

**PLUMBING****BCA V441 Plumbing On-the-Job Training (O)****640 hours**

This course is taught in conjunction with Apprenticeship-Plumbing to enable the student to implement and practice the essential competencies in the plumbing industry work environment. The course uses authentic learning strategies through on-the-job training, helping students implement the theoretical concepts introduced in the classroom. Permission of instructor required.

**BCA V400 Building Trades Apprenticeship - Plumbing (O)****54 hours**

This course teaches entry level competencies for working in the plumbing and pipe trades industry. These competencies include safety practices, use of industry specific tools and equipment, appropriate communication and math skills, basic plumbing principles and codes. This course is taught in conjunction with the work activities of BCA V441. Prerequisite: BCA V001. Corequisite: BCA V441.

**BCA V450 Introduction to Pipe Trades I (O)****90 hours**

This course develops the competencies essential to pipe trades. These competencies relate to career and training opportunities, the use and care of tools, safety precautions, basic math applications, standards and codes, and human relations. This is the first course in a series of twelve courses designed for the Plumbing Apprentice.

**BCA V451 Introduction to Pipe Trades 2 (O)****90 hours**

This course develops the competencies essential to pipe trades. These competencies include safety, pipe trade related math applications, basic science, standards and codes, employability skills, and communication. This is the second course in a series of twelve courses designed for the plumbing apprentice. Prerequisite: BCA V450.

**BCA V452 Introduction to Pipe Trades 3 (O)****90 hours**

This course provides competencies relating to blueprint and job specifications, building codes in the pipe trades, employability skills, and entrepreneurship. This is the fourth course in a series of twelve designed for the plumbing apprentice. Prerequisite: BCA V451.

- BCA V453 Plumbing Technology 4 (0) 90 hours**  
This course provides basic plumbing and pipe-cutting and joining skills. This is the fifth course in a series of twelve courses designed for the plumbing apprentice. Prerequisite: BCA V452.
- BCA V454 Plumbing Technology 5 (0) 90 hours**  
This course provides competencies relating to plumbing codes, blueprints and specifications, job layout and coordination, and first rough installation. This course is the seventh in a series of twelve designed for the plumbing apprentice. Prerequisite: BCA V453.
- BCA V455 Plumbing Technology 6 (0) 90 hours**  
This course provides competencies in job layout and coordination, and first and second rough installation. This course is the eighth in a series of twelve designed for the plumbing apprentice. Prerequisite: BCA V454.
- BCA V456 Plumbing Technology 7 (0) 90 hours**  
This course provides more in-depth study of trimming out plumbing, competencies in the installation of hot-water-heating and circulating systems, the principles of backflow and cross-connection control, and developing positive customer relations skills. This course is the tenth in a series of twelve designed for the plumbing apprentice. Prerequisite: BCA V455.
- BCA V457 Plumbing Technology 8 (0) 90 hours**  
This course provides competencies in the installation of interceptors and separators, and competencies necessary to install a storm drainage system. This course is the eleventh in a series of twelve courses designed for the plumbing apprentice. Prerequisite: BCA V457.

## **POLITICAL SCIENCE**

- POS 1041 American Government (P) 3 credits**  
This course provides the basic principles of the U.S. Constitution, civil rights, political parties, and the electoral process. The structure and machinery of the federal government including the Congress, Presidency, and Judiciary are covered in detail. Prerequisite: Student must score into college-level English and reading on placement test.
- CPO 2002 Comparative Politics (P) 3 credits**  
This course provides information about various political systems by comparing and contrasting selected systems, historical backgrounds, principal actors, and performances. Causes and costs of political instability are also covered. Prerequisite: Student must score into college-level English and reading on placement test.
- POS 2112 American State and Local Government (P) 3 credits**  
This course provides a basic understanding of government at the state and local level. Students examine Florida government in detail as a model for understanding state and local politics. Prerequisite: Student must score into college-level English and reading on placement test.
- INR 2002 Introduction to International Relations (P) 3 credits**  
This course provides a working knowledge of international relations including the history of international relations, nationalism, foreign policy, imperialism, militarism, economics, international organizations, and the United Nations. Prerequisite: Student must score into college-level English and reading on placement test.
- INR 2500 Model United Nations (P) 3 credits**  
This course teaches the history, structure, and functions of the United Nations as well as its diplomatic roles within the global community. Also, through research and simulated debates of major issues, students become familiar with the practical aspects of the UN and are able to participate in Model UN conferences.

## **PSYCHOLOGY**

- SLS 1224 Coping with Loneliness and Grief (0) 1 credit**  
This course teaches reactions during a loss, strategies of helping others through grief, and what to expect after a loss.

**DEP 2004 Human Development (P) 3 credits**  
 This course develops knowledge of the biological, psychological, and social development stages of the human being from conception to death, including their relationship to education. Prerequisite: student must score into college-level English and reading on placement test.

**PSY 2012 Introduction to Psychology (P) 3 credits**  
 This course provides an introduction to the scientific study of human behavior and mental processes by surveying the different subfields of psychology. Topics include the brain, memory, personality, abnormal behavior, and cognition. Prerequisite: student must score into college-level English and reading on placement test.

## **PUBLIC SAFETY**

**DSC 3064 Security & Emergency Communications (U) 3 credits**  
 This course teaches the importance of effective emergency communications including reporting, writing, radio and alternative communications technologies, as well as effective public communications.

**DSC 3079 Foundations of Public Safety (U) 3 credits**  
 This course teaches the implementation requirements and evaluation of Public Safety program effectiveness. Students learn to research program need, budgetary requirements for program implementation and measure crime reduction and prevention effectiveness.

**DSC 3215 Emergency Planning (U) 3 credits**  
 This course teaches the process and implementation of comprehensive emergency management plans for incident management and continuity of operations for all levels of government and all sectors in the community. Prerequisite: DSC 3079.

**DSC 4931 Selected Topics in Public Safety (U) 3 credits**  
 This course provides advanced students an opportunity to examine current issues and themes in Public Safety Administration. Prerequisite: DSC 3079, DSC 3215.

**DSC 4755 National Security (U) 3 credits**  
 This course teaches all aspects of national security and how strategic issues affect public safety administration and operations. Topics include national security preparedness, terrorism and counter-terrorism, critical infrastructure, disaster management, and strategic communications for local and regional governments.

**DSC 4226 National Incident Management (U) 3 credits**  
 This course teaches the standards and requirements for full implementation of national incident management standards and the development of National Response Plans. Prerequisite: DSC 3079.

**DSC 4013 Capstone Project in Public Safety (U) 6 credits**  
 This course teaches how to integrate Public Safety Administration knowledge, skills and tools developed in previous Public Safety Administration courses. It emphasizes critical analysis of current topics and trends. It includes a major research paper and presentation on a public safety topic of the student's choice. Prerequisite: BUL 3130, ACG 3024, ISM 3011, MAN 3240, MAN 3303, MAN 4301, DSC 3064, DSC 3079, DSC 3215, DSC 4226. Pre/corequisite: DSC 4755, DSC 4931.

## **RADIOGRAPHY**

**RTE 1000 Introduction to Radiography (O) 3 credits**  
 This course is an introduction to Radiologic Technology and includes a history of the profession through the role of the radiographer, including basic principles. Corequisite: RTE 1503, RTE 1804.

**RTE 1418L Radiographic Exposure I Lab (O) 1 credit**  
 This course includes lab demonstration to support the lecture material presented in RTE 1418. Corequisite: RTE 1418, RTE 1513, RTE 1824. Lab fee \$40.00.

- RTE 1418 Radiographic Exposure I (O)** **3 credits**  
This course includes methods of film processing and processors, darkroom chemistry, image formation, and construction of films, cassettes, and grids. The theory and practice of safe exposure values, accessory equipment and their use, equipment testing, and quality control procedures are discussed. Prerequisite: MAT 1033, RTE 1000. Corequisite: RTE 1418L, RTE 1513, RTE 1513L, RTE 1814.
- RTE 1457 Radiographic Exposure II (O)** **2 credits**  
This course provides indepth analysis of the principles of radiographic exposure as they apply to density, detail, contrast, magnification, and distortion. The Inverse Square Law and its application is also included. Prerequisite: RTE 1418, RTE 1418L. Corequisite: RTE 1457L, RTE 1523, RTE 1523L, RTE 1834.
- RTE 1457L Radiographic Exposure II Lab (O)** **1 credit**  
This course provides lab exercises involving screen contact testing, Inverse Square Law, principles of sharpness, and development and use of exposure charts. Prerequisite: RTE 1418, RTE 1418L. Corequisite: RTE 1457, RTE 1523, RTE 1523L, RTE 1834. Lab fee \$40.00.
- RTE 1503 Radiographic Procedures I (O)** **3 credits**  
This course provides the Radiography student with the instruction in radiographic examinations of the chest. An introduction of medical terminology, radiographic terminology, and the fundamentals of patient care are included. Corequisite: RTE 1000, RTE 1804.
- RTE 2580 Introduction to Digital Imaging (O)** **2 credits**  
This course teaches the principles of digital imaging including digital radiography, digital fluoroscopy, computed radiography, digital mobile radiography/ fluoroscopy and PACS. Prerequisite: RTE 1503.
- RTE 1513 Radiographic Procedures II (O)** **3 credits**  
This course provides the Radiography student with instruction in radiographic examinations of the chest, abdomen, and upper and lower extremities. Special emphasis of radiographic anatomy, surface landmarks, positioning, technique, pathology, and critique of images are made. Prerequisite: RTE 1503. Corequisite: RTE 1513L, RTE 1824. Lab fee \$40.00.
- RTE 1513L Radiographic Procedures II Lab (O)** **1 credit**  
This course provides lab instruction in radiographic examinations of the upper and lower extremities, gastrointestinal systems, and the biliary system. Prerequisite: RTE 1503. Corequisite: RTE 1513, RTE 1824. Lab fee \$40.00.
- RTE 1523 Radiographic Procedures III (O)** **3 credits**  
This course is a continuation of study in radiographic anatomy, positioning, pathology, and image evaluation with emphasis in procedures of the gastrointestinal system, biliary system, genitourinary system, bony thorax, and spine. This course includes discussion of patient care and medical terminology related to course topics. This course also includes the composition, use, and effects of contrast medium on the human body. Prerequisite: RTE 1513, RTE 1513L. Corequisite: RTE 1523L, RTE 1834.
- RTE 1523L Radiographic Procedures III Lab (O)** **1 credit**  
This course provides the Radiography student with lab instruction in radiographic examinations of the gastrointestinal system, bony thorax, and spine. Corequisite: RTE 1523, RTE 1834. Lab fee \$40.00.
- RTE 2533 Radiographic Procedures IV (O)** **2 credits**  
This course provides continued study in radiographic anatomy, positioning, pathology, and film critique with emphasis on the skull, including sinuses, mastoids, facial bones, and orbits. This course includes discussion of patient care and medical terminology related to course topics. Prerequisite: RTE 1523, RTE 1523L. Corequisite: RTE 2533L, RTE 2854, RTE 2385.



- RTE 2533L Radiographic Procedures IV Lab (O)** **1 credit**  
This course provides lab instruction in radiographic examinations of the skull. Corequisite: RTE 2533, RTE 2385, RTE 2854. Lab fee \$40.00.
- RTE 2553 Radiographic Procedures V (O)** **2 credits**  
This course provides continued study in radiographic anatomy, positioning, pathology and image evaluation with emphasis on special procedures. The course also provides instruction in venipuncture, contrast media reactions, and patient care methods. Prerequisite: RTE 2533, RTE 2533L. Corequisite: RTE 2864.
- RTE 2553L Radiographic Procedures V Lab (O)** **1 credit**  
This course provides the Radiography student with lab instruction in venipuncture, tomography, trauma, and other special radiographic procedures. Prerequisite: RTE 2533, RTE 2533L. Corequisite: RTE 2864, RTE 2553. Lab fee \$40.00.
- RTE 1804 Radiographic Clinical Education I (O)** **1 credit**  
This course provides the student with practical application in a supervised setting of the theory covered in RTE 1503. The student rotates through selected areas of the Radiology Department in order to gain first hand experience in film filing, film processing, and transportation of patients. The student observes, assists, and performs basic radiographic procedures (chest and abdomen) under the supervision of a clinical instructor. Lab fee \$50.00. Insurance fee \$22.00.
- RTE 1814 Radiographic Clinical Education II (O)** **1 credit**  
This course is a continuation of RTE 1804 with students performing radiographic examinations under direct supervision in the clinical education centers. Emphasis is placed on chest imaging and methods of patient care. Prerequisite: RTE 1804. Lab fee \$50.00.
- RTE 1824 Radiographic Clinical Education III (O)** **3 credits**  
This course is a continuation of RTE 1814 with students performing radiographic procedures under direct supervision in the clinical education centers. Emphasis is placed on examinations of the chest, abdomen, and upper and lower extremities. Prerequisite: RTE 1814. Corequisite: RTE 1513, RTE 1513L, RTE 1418, RTE 1418L. Lab fee \$50.00.
- RTE 1834 Radiography Clinical Education IV (O)** **3 credits**  
This course is a continuation of RTE 1824 with students performing procedures taught in previous clinical courses. Emphasis is placed on radiographic examinations of the gastrointestinal system, biliary system, bony thorax, and spine. Prerequisite: RTE 1824. Corequisite: RTE 1523, RTE 1523L. Lab fee \$50.00.
- RTE 2844 Radiographic Clinical Education V (O)** **1 credit**  
This course is a continuation of RTE 1834 with students perfecting positioning skills with indirect supervision. Emphasis is placed on radiographic procedures in advanced radiographic modalities and fluoroscopic procedures. Prerequisite: RTE 1834. Lab fee \$50.00. Insurance fee \$22.00.
- RTE 2854 Radiographic Clinical Education VI (O)** **1 credit**  
This course is a continuation of RTE 2844 with students perfecting positioning skills with indirect supervision. Emphasis is placed on examinations of the skull, facial bones, sinuses, and special radiographic procedures. Prerequisite: RTE 2844. Corequisite: RTE 2385, RTE 2553. Lab fee \$50.00.
- RTE 2864 Radiographic Clinical Education VII (O)** **3 credits**  
This course is a continuation of RTE 2854 with students perfecting positioning skills with indirect supervision. Clinical rotations include special procedures, myelography, and CT scanning. Prerequisite: RTE 2854. Corequisite: RTE 2553, RTE 2553L. Lab fee \$50.00.

- RTE 2874 Radiographic Clinical Education VIII (O)** **3 credits**  
This course is a continuation of RTE 2864 with students practicing positioning skills with indirect supervision. Emphasis is placed on completion of required clinical competencies. Prerequisite: RTE 2864. Corequisite: RTE 2563. Lab fee \$50.00.
- RTE 2385 Radiation Safety and Protection (O)** **2 credits**  
This course includes discussion of the mechanisms of protection from the harmful effects of ionizing radiation as this applies to radiation workers, patients, and the public at large. The genetic and somatic effects of ionizing radiation are also discussed. Prerequisite: RTE 1000. Corequisite: RTE 2533, RTE 2533L, RTE 2854.
- RTE 2061 Radiographic Seminar (O)** **2 credits**  
This course prepares students for the ARRT examination. Emphasis is on review, test-taking skills, and mock registry examinations. The course assists the student in job placement activities including résumé writing and interviewing skills. Corequisite: RTE 2563, RTE 2874.
- RTE 2563 Advanced Medical Imaging (O)** **2 credits**  
This course is an interdisciplinary workshop designed to prepare the radiography student for entry into the workplace. Research into advanced radiologic modalities is performed and presented by students. Topics specifically addressed include CT, MRI, Sonography, Nuclear Medicine, Radiation Therapy, Mammography, and Pharmacology as they relate to the radiologic sciences. Prerequisite: RTE 2553. Corequisite: RTE 2874, RTE 2061, RTE 2613.
- RTE 2613 Radiographic Physics (O)** **3 credits**  
This course presents the physics of x-ray generators, the theories of direct and alternating current with methodology for harnessing, distribution, and measurement of current and EMF. Motors, transformers, single and three-phase x-ray generators, construction and function of x-ray tubes, atomic structure and its relation to the generation of x-rays from an x-ray tube, interaction of radiation matter, pair production, Compton, and photoelectric interaction, tube rating charts, and testing for malfunctioning of x-ray generating systems are studied. Prerequisite: PHY 1020, RTE 1418, RTE 1457. Corequisite: RTE 2563, RTE 2874.
- NMT 2710 PET/CT Procedures and Radiopharmaceuticals (O)** **3 credits**  
This course introduces the nuclear medicine technologist and radiation therapist to the principles of PET/CT imaging and the production and quality control of radiopharmaceuticals. Prerequisite: CNMT or ARRT/R.T. (N), or R.T. (T).
- NMT 2573 PET/CT Physics and Instrumentation (O)** **3 credits**  
This course teaches the nuclear medicine technologist and radiation therapist the physics of positrons and scanner calibration and quality control. Prerequisite: CNMT or ARRT/R.T. (N) or R.T. (T).
- NMT 2310 PET/CT Quality Control and Radiation Safety (O)** **3 credits**  
This course teaches nuclear medicine technologists and radiation therapists radiation safety and quality control in PET/CT imaging. Topics covered include regulatory agencies, radiation exposure limits, and quality management within the PET/CT department. Prerequisite: CNMT or ARRT/R.T. (N), or R.T. (T)
- RTE 2762 Cross-Sectional Anatomy (O)** **3 credits**  
This course introduces cross-sectional anatomy as related to advanced medical imaging modalities, primarily emphasizing axial planes but also includes the sagittal and coronal planes. This course aids imaging modality students in recognizing, locating and identifying normal anatomy on various computer images. Prerequisite: licensed X-ray technician, BSC2093, BSC 2093L, BSC 2094, BSC 2094L.

**READING****REA 0001 College Prep Reading I\*****3 credits**

This course teaches reading and vocabulary skills through diagnostic/prescriptive techniques. The curriculum emphasizes acquiring and analyzing new vocabulary and applying literal and some critical comprehension skills. Various reading and vocabulary study skills also are presented. Prerequisite: placement scores.

**REA 0002 College Prep Reading II\*****3 credits**

This course teaches reading and vocabulary skills through diagnostic/prescriptive techniques. It reviews the literal and critical comprehension skills taught in REA 0001 with more difficult exercises and then progresses to new critical comprehension skills. Determining word meaning in context is emphasized through exercises with additional new vocabulary. Reading and vocabulary study skills also are presented with the course materials. Prerequisite: placement scores or REA 0001 with a grade of "C" or higher.

**REA 1205 Advanced College Reading I (P)****3 credits**

This course teaches vocabulary knowledge, test-taking techniques, rapid reading, rate flexibility, and critical reading skills. Expected outcomes are to show improvement in all areas listed above and to demonstrate analytical thinking skills such as determining valid arguments, drawing logical conclusions and inferences, detecting bias and prejudice, and finding the author's purpose and tone. Prerequisite: student must place into college-level English and reading on placement test.

**REA 1930 Reading to Learn in the Content Areas (P)****1 - 3 credits**

This course teaches strategies for improved reading comprehension and critical thinking across the curriculum. Students learn to solve problems, construct questions, and complete comprehension assignments. Prerequisite: student must score into college-level reading.

**RED 1010 Foundations of Reading Institute (P)****3 credits**

This course teaches through reflection, dialog, clinical, and field experiences, preservice teachers to understand and apply the concepts of elementary classroom reading skills. It lays the foundation to build a balanced reading program that ensures all students can be happy and literate learners. Prerequisite: permission of instructor.

**REA 1933 Reading for Cultural Literacy (P)****3 credits**

This course promotes the value of diversity through familiarity with culturally diverse literature. Literal, critical, and affective skills in reading comprehension are enhanced through the study of selections reflecting diverse cultures. Emphasis is on critical thinking skills such as author's tone, intent, attitude, logical inferences, and illogical fallacies. Prerequisite: student must score into college-level English and reading on placement test.

**RED 3009 Early and Emergent Literacy (U)****3 credits**

This course familiarizes students with early literacy development and conditions promoting total literacy from birth through lower elementary grades. All aspects of literacy are explored: reading, writing, listening and speaking. Pre/Corequisite: EDF 2005, EDF 2085, EME 2040, EDF 3214.

**RED 3360 Teaching Reading in Middle/Secondary Schools (U)****3 credits**

This course promotes the effective teaching of literacy skills across the curriculum. The major emphasis of this course is placed on current theories, research-based strategies and materials used in content area literacy instruction. Lecture, discussions, simulated teaching and field work constitute different course activities. Pre/Corequisite: EDF 2005, EDF 2085, EME 2040.

\*College preparatory. Credit not applied toward degree. In addition to classroom time, this course requires two (2) hours per week in the Academic Support Center.

**RED 4348 Literacy Development K-12 (U) 3 credits**

This course provides an understanding of reading instruction through the elementary, middle, and secondary school levels. It presents learning to read as a continuous process that impacts all academic success. Prerequisite: RED 3009. An additional 20 hours of clinical experience to be completed in the IRSC tutoring labs on the Main Campus is a required part of the course.

**RED 4519C Diagnostic and Instructional Interventions in Reading (U) 3 credits**

This course introduces formal and informal methods and materials used to identify reading strengths and weaknesses of students. Topics include assessments of all aspects of reading, including comprehension, word recognition, phonics and cognitive strategies. The main emphasis is diagnosis of reading problems, administration of assessments, evaluation of results and planning instructional interventions to remediate reading difficulties. An additional 20 hours of clinical experience to be completed in the IRSC tutoring labs on the Main Campus is a required part of the course. Prerequisite: RED 4348 or RED 3360.

**RED 4654 Differentiated Instruction Foundations and Applications (U) 3 credits**

This course exposes students to issues related to differentiated reading instruction. It discusses knowledge and skills concerning differentiated instructional theory, classroom applications, and evaluation techniques used in differentiated instruction. Prerequisite: RED 3009, RED 3360 or RED 4348, RED 4519C.

**REAL ESTATE****REE 1040 Real Estate Principles and Practices I (O) 4 credits**

This course teaches the theoretical, practical and legal aspects of the field of real estate. Material is presented in a manner to assist in preparation for the course and state licensing examinations.

**REE 2080 Real Estate Sales Review (O) 1 credit**

This course is for students planning to sit for the state sales licensure examination. Prerequisite: REE 1040 or equivalent.

**REE 1180 Real Estate Residential Appraisal ABI (O) 6½ credits**

This course teaches the proper way to complete an appraisal on a single-family residential property, focusing on the completion of the uniform residential appraisal report form. Successful completion of this course satisfies the educational requirements for a state-licensed real estate appraiser.

**REE 1271 Mortgage Broker License Course (O) 2 credits**

This course fulfills the educational requirements for pre-licensing as a Florida Mortgage Broker. This course focuses on primary and subordinate financing transactions and the laws of Chapter 494, Florida Statutes.

**REE 2041 Real Estate Principles and Practices II (O) 5 credits**

This course prepares students needing to satisfy the State of Florida's pre-licensing requirements to obtain a Real Estate Broker's license. The class focuses on appraising, management, law, closing statements, and other critical aspects of the industry. Prerequisite: REE 1040 and Florida Real Estate Sales License.

**REE 2541 Community Association Management (O) 1 credit**

This course prepares students interested in becoming Florida licensed Condominium and Property Managers to take the state exam by focusing on state law, budgets, contracts, insurance, regulations, and licensing.

**REE P081 Real Estate Continuing Education for License Renewal (O) 14 hours**

This course satisfies the Florida Real Estate Commission's mandated continuing education requirement for salespersons and brokers licensed prior to January 1, 1989.

**REE P103 Appraising Continuing Education I (O) 15 hours**

This course meets 15 of the 30 hours of continuing education required for certified residential or real estate appraisers.

**RESPIRATORY CARE**

- RET 1024 Introduction to Respiratory Care (O) 3 credits**  
This course is an introduction to the field of Respiratory Therapy including terminology, patient care techniques, CPR, and professional ethics. A lab setting is utilized to reinforce lecture and enable the student to develop the necessary skills prior to performance in a clinical rotation. Lab fee \$100.00.
- RET 1274 Respiratory Care Theory I (O) 3 credits**  
This course teaches the theory of medical gas, humidity, and aerosol therapy along with the equipment associated with their administration. A lab setting is utilized to reinforce lecture and enable the student to develop the skills necessary to perform in a clinical setting. Corequisite: RET 1024, RET 1007, RET 1485. Lab fee \$40.00.
- RET 1007 Cardiopulmonary Pharmacology (O) 2 credits**  
This course is an introduction to general pharmacological classifications of medications including dosage calculations along with an indepth study of drugs administered by respiratory care practitioners. Corequisite: RET 1024, RET 1274, RET 1485.
- RET 1485 Cardiopulmonary Anatomy and Physiology (O) 3 credits**  
This course offers an indepth study of the anatomy, physiology, and pathology of the pulmonary and cardiovascular systems and their application to the basics of pulmonary disease. Corequisite: RET 1024, RET 1007, RET 1274.
- RET 2275 Respiratory Care Theory II with Lab (O) 3 credits**  
This course teaches the theory and application of positive pressure breathing, chest physiotherapy, airway care, and adjunctive breathing therapies, and their role in the treatment of general medical, surgical, and pulmonary patients. A lab setting is utilized for mastery of skills prior to clinic. Prerequisite: RET 1274. Corequisite: RET 2503, RET 2832. Lab fee \$40.00.
- RET 2503 Cardiopulmonary Diseases (O) 2 credits**  
This course is an in-depth study of cardiopulmonary diseases including etiology, diagnosis, and treatment. Prerequisite: RET 1485. Corequisite: RET 2275, RET 2832.
- RET 2832 Respiratory Therapy Clinic I (O) 5 credits**  
This course provides supervised observation and clinical practice of oxygen and aerosol therapy. Associate procedures are presented in Introduction to Respiratory Therapy and Respiratory Therapy Theory I. Clinic will meet two days per week (16 hours). Prerequisite: RET 1024, RET 1274. Corequisite: RET 2275, RET 2503. Lab fee \$200.00. Insurance fee \$22.00.
- RET 2442 Respiratory Care Theory III with Lab (O) 3 credits**  
This course is a study of artificial airway management, theories associated with blood gas analysis, noninvasive patient monitoring techniques, along with an introduction to mechanical ventilation. A lab setting is utilized to reinforce lecture and enable the student to develop the skills necessary to perform in a clinical setting. Prerequisite: RET 2275. Corequisite: RET 2833. Lab fee \$50.00.
- RET 2833 Respiratory Therapy Clinic II (O) 2 credits**  
This course provides supervised observation and clinical practice of IPPB, CPT, and airway management as presented in Respiratory Therapy Theory II and III. Prerequisite: RET 2275. Corequisite: RET 2442. Lab fee \$200.00.
- RET 2264 Mechanical Ventilation with Lab (O) 3 credits**  
This course teaches the theory of operation, application, and evaluation of mechanical ventilators. A lab setting is utilized to reinforce lecture and enable the student to develop the skills necessary to function competently in a clinic. Prerequisite: RET 2442. Corequisite: RET 2834. Lab fee \$40.00.

- RET 2280 Critical Respiratory Care (O)** **3 credits**  
This course teaches advanced theories and modalities of respiratory care including hemodynamic monitoring, EKG interpretation, pulmonary and cardiac diagnostic procedures, sleep studies, cardiopulmonary rehabilitation and home care. Students identify, assist, interpret and recommend related procedures and modalities for the management of the cardiopulmonary patient. Prerequisite: RET 2833. Corequisite: RET 2834, RET 2264.
- RET 2414C Pulmonary Function Studies with Lab (O)** **3 credits**  
This course is an indepth study of diagnostic techniques in the field of pulmonary function, which includes spirometry, lung volumes, static and dynamic mechanics, ventilation, and distribution of gases. A lab setting is utilized to reinforce lecture and enable the student to develop the skills necessary to perform in a clinical setting. Prerequisite/Corequisite: MAT 1033, RET 2442, RET 2833. Lab fee \$70.00.
- RET 2934 Professional Development in Respiratory Care (O)** **2 credits**  
This course prepares students for employment in the field of Respiratory Care. Employability skills, registry preparation, and computer literacy are discussed. Prerequisite: RET 2264, RET 2280, RET 2834. Corequisite: RET 2835 and RET 2714.
- RET 2834 Respiratory Therapy Clinic III (O)** **5 credits**  
This course provides supervised observation and clinical practice of diagnostic techniques utilized in the evaluation of pulmonary function, including arterial punctures and analysis. Students are also oriented to the Intensive Care Unit. Prerequisite: RET 2414C. Corequisite: RET 2264. Lab fee \$200.00. Insurance fee \$22.00.
- RET 2835 Respiratory Therapy Clinic IV (O)** **7 credits**  
This course provides supervised observation and clinical practice of mechanical ventilation on adult and pediatric/neonatal patients. Clinic meets an average of 20 hours per week. Prerequisite: RET 2264, RET 2280, RET 2834. Corequisite: RET 2714, RET 2934. Lab fee \$200.00. Insurance fee \$22.00.
- RET 2714 Pediatric/Neonatal Respiratory Care (O)** **3 credits**  
This course teaches an in-depth understanding of the significant anatomic, physiologic, and pharmacologic concepts as they relate to the pediatric and neonatal patients. It covers disease entities and resuscitation methods specific to neonates and pediatrics. Prerequisite: RET 2264. Corequisite: RET 2835.
- RET 2241 Introduction to ACLS for Respiratory Care (O)** **1 credit**  
This course teaches Advanced Cardiac Life Support (ACLS) based on the American Heart Association standards. It prepares students for the ACLS certification examination. This course is for Respiratory Therapy Care students and licensed respiratory care professionals.
- RET 2008 General Pharmacology for Respiratory Care Practitioners (O)** **2 credits**  
This course teaches principles of pharmacology, general classifications, indications of medications, and their related side effects. Effective administration of therapeutic drugs, indications and contraindications, and routes of administration are described. Students should have an A.S. Degree in Respiratory Care or equivalent.
- RET 2225 Conscious Sedation (O)** **2 credits**  
This course teaches the goals and objectives of conscious sedation, preprocedure assessment, pharmacologic concepts, airway management and postprocedure care of the patient. Students should have an A.S. Degree in Respiratory Care or equivalent and a State of Florida Respiratory Care License.
- RET 2418 Diagnostic Cardiopulmonary Pathophysiology (O)** **3 credits**  
This course introduces various methods for diagnosing cardiopulmonary diseases as they relate to the associated physiology. Emphasis is placed on common diagnostic procedures and the application of information to the disease process. Prerequisite: A.S. Degree in Respiratory Care, Nursing, or Radiography and a State of Florida Respiratory Care License.

**RET 2405 Diagnostic Procedures in Respiratory Care (0)** **3 credits**  
This course teaches the theory and skills of cardiopulmonary diagnostic procedures including bronchoscopy, transesophageal echocardiography and stress tests. Students should have an A.S. Degree in Respiratory Care or equivalent.

**RET 2490 I.V. Therapy (0)** **3 credits**  
This course teaches principles of intravenous therapy including patient assessment, I.V. insertion, monitoring, discontinuing, maintaining, regulating, intervening and evaluation of therapy. Students are required to demonstrate mastery of skills. Students should possess an A.S. Degree in Respiratory Care or the equivalent. Prerequisite: State of Florida Respiratory Care License.

**RET P931 Respiratory Care - Current Topics (0)** **1 - 8 hours**  
This course provides Respiratory Therapists and other health care practitioners with an update and overview of current technology, therapy, and scientific advances in the management of patients with cardiopulmonary disorders.

## **RESTAURANT MANAGEMENT**

**FOS 2201 Sanitation and Safety (0)** **3 credits**  
This course offers a study of sanitation relating to the preparation, storage, and service of food. It includes a study of foodborne diseases, food poisoning, and diseases transmitted by food and food handlers, including safety practices in the food service department.

**FSS 2284C Food Service Special (0)** **3 credits**  
This course includes the planning, preparation, and presentation of special food functions such as buffets, banquets, receptions, etc. Emphasis is on decorating and display of food.

**FSS 2206 Quantity Food Production (0)** **4 credits**  
This course includes skills needed for quantity food production. Students learn to apply skills and techniques of food preparation used in the food service industry. Students learn proper business and math skills that are needed for the food service industry. The introduction of basic food industry terminology and varying equipment are also covered.

**FSS 2263 Food Merchandising and Service (0)** **3 credits**  
This course is a study of theory and practice in acceptable procedures in serving foods. It includes how to display and merchandise foods in an attractive manner and how to evaluate the food service operation.

**FSS 2221C Food Preparation I (0)** **3 credits**  
This course is a study of safety sanitation and quality involved in food preparation, including procedures and techniques in quantity food preparation with emphasis on quality and retention of nutritive values. Kitchen organization and planning of quantity production are included. Practice is provided in the production and service of meals, including evaluation of controls.

**FSS 2063C Quantity Baking (0)** **3 credits**  
This course is a study of procedures and techniques used in quantity baking. Emphasis is upon manipulation of recipes for the quantity baking of all types of breads, cakes, and pies.

**FSS 2222C Food Preparation II (0)** **3 credits**  
This course is the second of a series of courses and deals with procedures, safety sanitation, and quality involved in food preparation with emphasis on quality and retention of nutritive values. Kitchen organization and planning of quantity production are included. Practice is provided in the production and service of meals, including evaluation and controls. Prerequisite: FSS 2221C.

**FSS 2300 Food Service Supervision and Management (0)** **3 credits**  
This course is a study of principles of management particularly as they apply to the food service industry. The role of the supervisor or manager in organizing and directing the work of his employees, his responsibility for planning and coordinating their activities are included.

**FSS 2248C Pantry and Gard-Manger I (O) 4 credits**

This course introduces the use of various materials, tools, and equipment in the food service industry including instruction of special pastry techniques, ice carving, tallow sculpturing, pastries, cakes and dessert decorating. The course also introduces the instruction of preparing finished sauces, learning ala carte techniques, and how to manage large quantity food preparation.

**FSS 2500 Food/Beverage Cost Control/Purchasing (O) 4 credits**

This course covers the various materials, tools, and skills needed in the food service industry. Students learn how to figure the cost of labor and methods of controlling costs. The course prepares students for keeping proper inventories, instruction in the preparation and processing of payroll, developing and maintaining reports, and how to maximize profits.

**FSS 2401 Use and Care of Kitchen Equipment (O) 3 credits**

In this course students study proper use of food service equipment in the easiest, safest, and most effective way. It includes proper care of equipment, simple repair techniques, and preventive maintenance.

**FSS 2303 Food Service Practicum I (O) 4 credits**

This course is a seminar for students enrolled in the Food Service program. The seminars meet a minimum of one hour each week for discussions and reports concerning the supervised work experience. A minimum of fifteen hours of supervised on-the-job training required in the food industry per week. Prerequisite: permission of Food Services Coordinator.

**FSS 2304 Food Service Practicum II (O) 4 credits**

This course is the second in a series of seminars for students enrolled in the Food Service Program. Prerequisite: FSS 2303.

**FSS 2305 Food Service Practicum III (O) 4 credits**

This course is the third of a series of four courses for students enrolled in the Food Service Program. Prerequisite: FSS 2304.

**FSS 2306 Food Service Practicum IV (O) 4 credits**

This course is the fourth in a series of four courses for students enrolled in the Food Service Program. Prerequisite: FSS 2305.

**FSS 1930 Creative Culinary Cooking (O) ½ - 3 credits**

This course teaches applied food preparation through special topics which may include ethnic specialties, holiday meal preparation, international cuisine, baking, and pastries. Lab fee \$27.00.

**HUN 1201 Nutrition 3 credits**

This course is a study of nutrients, their digestion and absorption, and the relationship of food to the development and maintenance of health. Includes a study of nutritional needs of all age groups and interpretation of the National Council's recommended dietary allowance.

**HUN 1203 Culinary Nutrition 3 credits**

This course provides instruction related to nutrition in the food service industry, especially the role and food sources of the essential nutrients. It emphasizes the retention of the essential nutrients during preparation, the basic principles for health-conscious cooking, and nutrition-related diseases.

**DIE V101 Introduction to Dietary Management (O) 225 hours**

This course provides an in-depth study of normal nutrition principles and the application of these principles in nutritional assessment and diet modification. This course is part of the Certified Dietary Management program.

**DIE V200 Diet Therapy for Managers (O) 225 hours**

This course is part of the Certified Dietary Management program and includes instruction and learning activities provided in a laboratory and clinical setting using hands-on experiences appropriate to program content and in accordance to current practice in the field.



- HMV V940 Apprenticeship - Culinary Arts - Introduction (O)** 96 hours  
This course introduces career options in the culinary arts field and provides initial preparation for employment in food service. Prerequisite: permission of instructor.
- HMV V943 Apprenticeship - Culinary Arts On-the-Job Training (O)** 640 hours  
This course implements the theoretical concepts introduced in the classroom components of the culinary art apprenticeship program through on-the-job training. Prerequisite: permission of instructor.
- HMV V944 Apprenticeship - Culinary Arts - Nutrition Principles (O)** 96 hours  
This course teaches intermediate commercial food and culinary arts techniques and fundamental nutrition principles.
- HMV V945 Apprenticeship - Culinary Arts - Cost Control (O)** 96 hours  
This course presents advanced commercial food preparation, cost controls, and business mathematics in the culinary arts industry. Prerequisite: HMV V940 and permission of instructor.
- HMV V946 Apprenticeship - Culinary Arts - Specialty Techniques (O)** 96 hours  
This course introduces the student to specialty culinary arts techniques in classroom instruction. Course content includes preparation and serving dips and basic desserts, garnishing and presentation of hors d'oeuvres and ice carvings, and cake decorating for all occasions. Prerequisite: HMV V940 and permission of instructor.
- HMV V947 Apprenticeship - Culinary Arts - Equipment Operations (O)** 96 hours  
This course teaches basic culinary food preparation techniques and equipment operations. Prerequisite: HMV V940.
- HMV V948 Culinary Arts - Management and Entrepreneurship (O)** 96 hours  
This course teaches management principles and techniques, customer relations, employability skills, and entrepreneurship. Prerequisite: HMV V940 and permission of instructor.

## SERVICE LEARNING

- SLS 2940 Service Learning and Civic Engagement (P)** 3 credits  
This course teaches democratic principles of civic engagement and service in the venue of planned Service Learning activities. Students engage in supervised career-exploration and discipline-related activities in the community service setting. Seminar and reflection activities are employed to assess experiences and to examine how organizations within the community address the problems, issues and concerns of the community. Prerequisite: student must score into college-level English, reading, and math on placement test; have completed nine college-level credits; have a 2.0 overall GPA and instructor approval.
- SLS 2948 Service Learning and Professional Development (P)** 1 credit  
This course teaches democratic principles of civic engagement and service in the venue of planned service-learning activities. Students engage in supervised career-exploration and discipline-related activities in the community service setting. Seminar and reflection activities are employed to assess experiences. Prerequisite: student must test into college-level English, math and reading; nine college-level credits; 2.0 overall GPA.
- SLS 2941 Pre-Med Career Shadowing and Scientific Research Service Learning (P)** 3 credits  
This course teaches democratic principles of civic engagement and service in the venue of planned service-learning activities. Students engage in supervised health sciences career-exploration and laboratory research activity in the community service setting. Seminar and reflection activities are employed to assess experiences and to examine how organizations within the community address the problems, issues and concerns of the community. Prerequisite: student must score into college-level English, reading, and math on placement test; have completed nine college-level credits; have a 2.0 overall GPA and instructor approval.

**SLS 2942 Service Learning and Peer Mentoring (P) 3 credits**

This course teaches democratic principles of civic engagement and service in the venue of planned service-learning activities. Students engage in supervised training in peer mentoring and in planning and executing active self-sustaining peer assistance programs. Seminar and reflection activities are employed to assess experience and to propose program enhancements. The course also examines how organizations within the community address the problems, issues and concerns of the community as a whole. Prerequisite: student must test into college-level English, math and reading; nine college-level credits; 2.0 overall GPA.

**SIGN LANGUAGE****ASL 1010 Sign Language I (O) 2 credits**

This course is intended to enable educators, family members, and friends to communicate more effectively with the hearing impaired. This introductory course focuses primarily on the practice of the Amslan function sign language, the American manual alphabet, and elementary vocabulary. Also included are discussions of the hearing mechanism, the psychosocial impact of hearing loss, social and educational organizations which aid the deaf, and mechanical communication devices.

**ASL 1401 Sign Language II (O) 2 credits**

This course emphasizes additional vocabulary and the ability to communicate with sign. Prerequisite: ASL 1010 or equivalent.

**ASL 2210 Conversational Sign Language (O) 2 credits**

This course is for the student already familiar with sign language and the American Manual Alphabet focusing on conversational signing, communicating clearly and fluently by combining fingerspelling with body language and facial expressions. Taught primarily in sign (without voice), the course encourages the development of the student's receptive and expressive skills through group interaction. Prerequisite: ASL 1401 or permission of instructor.

**ASL 1140 American Sign Language I (P)\* 4 credits**

This course teaches conversational ability in American Sign Language and develops an awareness and appreciation of deaf people. It focuses on the basic grammatical features of ASL and strengthens the student's receptive and expressive skills through various activities. Prerequisite: student must score into college-level English and reading on placement test.

**ASL 1150 American Sign Language II (P)\* 4 credits**

This course teaches the intermediate level of grammatical features in American Sign Language and conversational skills with an expanded vocabulary. Prerequisite: ASL 1140.

**ASL 2160 American Sign Language III (P)\* 4 credits**

This course teaches linguistic principles of American Sign Language at the intermediate level and an additional 500 sign concepts. Prerequisite: ASL 1150.

**ASL 2200 American Sign Language IV (P)\* 4 credits**

This course teaches linguistic principles of American Sign Language at the advanced level beyond those taught in ASL 2160. Prerequisite: ASL 2160.

**SMALL ENGINE REPAIR****SER V949 Gasoline Engine Service On-the-Job Training (O) 150 hours**

This course teaches how to implement and practice the essential competencies in the gasoline engine service technology work environment in conjunction with classroom instruction. This course uses authentic learning strategies through on-the-job training, helping students implement the theoretical concepts introduced in the classroom. Prerequisite: permission of instructor.

\*This course can be used toward the foreign language requirements for university admission.

- SER V163 Gasoline Engine Service I (O) 150 hours**  
This course teaches personal and industry safety requirements, proper use and care of basic shop tools and equipment, set-up procedures, and how to perform pre-delivery maintenance services for small engine repair.
- SER V210 Gasoline Engine Service II (O) 150 hours**  
This course teaches industry related communication and math skills; parts inventory identification and repair order processing; basic fuel system service; basic engine service and minor repairs; basic power transfer system and engine controls adjustments and service; and lubrication systems.
- SER V550 Gasoline Engine Service III (O) 150 hours**  
This course teaches service and repair of basic electrical systems, cooling and exhaust systems, starting systems; repair and reconditioning of basic engine components; application of industry related science to small gas engine service, basic tune-ups, diagnostics and repair of ignition and electrical systems.
- SER V150 Gasoline Engine Service IV (O) 150 hours**  
This course teaches repair and maintenance of basic two-stroke and four-stroke cycle engines; service of engine interior components, diagnosing and repairing power transfer systems, repair and adjustments to specific types of engines, and entrepreneurship.
- SOCIOLOGY**
- SLS 1352 Empowerment for Women (O) 1 credit**  
This course introduces the principles and theories of empowerment, self determination, increasing self-esteem, and decreasing self-defeating behavior patterns.
- SLS 1220 Assertiveness (O) 1 credit**  
This course differentiates between the three behavioral styles of passivity, aggression, and assertion. Students are taught the types and techniques of assertive behavior as well as common blocks and negative reactions to assertion.
- SLS 1930 Conflict Resolution (O) 1 credit**  
This course emphasizes methods of managing anger, compromising, and communicating. Theories, principles, and applications of conflict resolution are discussed.
- SLS 1215 Self Awareness (O) 1 credit**  
This course assists in the identification of personal strengths and values while encouraging the development of positive self-esteem. Describing techniques of goal-setting and decision-making, this course also identifies common obstruction to success and advocates goal achievement through assertive behavior.
- SLS 1223 Stress Management (O) 1 credit**  
This course enables the student to identify stress and its physical, mental, emotional, and behavioral effects. Students learn methods of stress avoidance as well as physical and psychological skills for coping with stress. Inappropriate methods for reducing stress are also identified.
- SLS 1401 Special Topics in Life Skills (O) ½ - 5 credits**  
The course is an introduction to the development of skills which are essential, both professionally and personally in the following areas: goal setting, cultural awareness, personal and inter-personal communication, time management, self responsibility, stress management, self assessment, and the use of resources that can help promote success.
- SYG 1250 Multicultural Issues (P) 3 credits**  
This course presents a survey of the cultures of many United Nations member nations and explains the interethnic conflict, cultural conflict, and self-rejection experienced by many groups around the world. The course focuses on facilitating understanding among people from different parts of the world with diverse cultural backgrounds.

**SYG 1251 Cross Cultural Communication (P) ½ - 3 credits**

This course teaches the fundamentals of the major cultures represented within Florida. It includes insights that will help in the planning of cultural awareness and cross-cultural understanding in the classroom and skills to incorporate culture into classroom activities.

**SYG 2000 Introduction to Sociology (P) 3 credits**

This course is an introduction to the concepts, principles, perspectives, methods, and findings of sociology. The course seeks to integrate social reality and individual life experiences, with particular emphasis on contemporary American society. Prerequisite: Student must score into college-level English and reading on placement test.

**SYG 2010 Social Problems (P) 3 credits**

This course examines the causes and proposed solutions of contemporary social problems: poverty, the economy, alienation, delinquency and crime, family changes, minority groups, war, health, aging, education, and population growth. Prerequisite: Student must score into college-level English and reading on placement test.

**SPANISH****SPN 1120 Elementary Spanish I (P)\* 4 credits**

This course facilitates the students' acquisition of communicative competencies in the four basic skills of speaking, listening, reading and writing Spanish. This course concurrently focuses on enriching students' cultural understanding of the Spanish-speaking world. Prerequisite: Student must score into college-level English on placement test.

**SPN 1121 Elementary Spanish II (P)\* 4 credits**

This course continues the students' acquisition of communicative competencies in the four basic skills of speaking listening, reading and writing Spanish begun in SPN 1120, with a continuing focus on enriching students' cultural understanding of the Spanish-speaking world. Prerequisite: SPN 1120 or permission of instructor.

**SPN 2220 Intermediate Spanish I (P)\* 4 credits**

The course continues the student's acquisition of communicative competencies in the four basic skills begun in SPN 1120 and SPN 1121, with a continuing focus on enriching students' cultural understanding of the Spanish-speaking world. Prerequisite: SPN 1121 or its equivalent.

**SPN 2221 Intermediate Spanish II (P)\* 4 credits**

This course is designed for college-level students who have had at least three years of high school Spanish. Prerequisite: SPN 2220 or permission of instructor.

**SPN 1000 Spanish for Daily Use I (O) 2 credits**

This course introduces the non-Spanish speaking student to the Spanish language. The course concentrates on the Spanish alphabet, basic vocabulary, common expressions, and simple sentences. Students practice pronunciation, communicate basic needs and wishes, and begin to develop skills in grammar usage and reading comprehension.

**SPN 1001 Spanish for Daily Use II (O) 2 credits**

This course improves basic vocabulary skills of the student who has had some Spanish language instruction. The student addresses and responds to others, read and comprehend elementary Spanish materials, begin to write correctly in Spanish, and learn some elements of Spanish culture. Prerequisite: SPN 1000 or permission of instructor.

**SPN 1010 Applied Conversational Spanish I (O) 2 credits**

This course is for the student who has an existing basic knowledge of Spanish. It focuses primarily on conversational skills within the family and community, emphasizing articulation and listening techniques for effective communication. Reading, composition, and elementary math skills are also taught, as well as elements of Hispanic history, geography, and culture. Prerequisite: SPN 1001 or permission of instructor.

\*This course can be used toward the foreign language requirements for university admission.

**SPN 1011 Applied Conversational Spanish II (0)** **2 credits**  
This course gives the student practice and, thus, fluency in conversational Spanish within everyday community situations. The student concentrates on mastering articulation and communication techniques, studying correct grammatical form only as it applies in the conversational context and further expands awareness of Spanish culture and customs. Prerequisite: SPN 1010 or permission of instructor.

## **SPEECH**

**SPC 1300 Interpersonal Communication (P)** **3 credits**  
This course presents the basic theories of human communication with a focus on the nature of verbal and nonverbal signals, face-to-face communication systems, and analysis of human interpersonal communication at individual and societal levels.

**SPC 1608 Introduction to Speech Communication (P)\*** **3 credits**  
This course examines the nature and basic principles of speech, with emphasis on improving speaking and listening skills common to all forms of oral communication through a variety of experiences in public speaking. Prerequisite: student must score into college-level English and reading on placement test.

## **SURGICAL TECHNOLOGY**

**STS V008 Pharmacology for the Surgical Technologist (0)** **60 hours**  
This course teaches general pharmacological concepts and principles in the management of patient care. Effective administration of therapeutic drugs, indications, and contraindications are discussed, including effects of medication on body systems. Drug classifications and their principal action are reviewed. Correct drug and dose identification is emphasized, including medications handled by the surgical technologist on the sterile field. Prerequisite: HSC V003, PRN V022, HSC V405, HSC V530C. Corequisite: STS V003.

**STS V003 Introduction to Surgical Technology (0)** **120 hours**  
This course teaches operating room theory and the role of the surgical technologist in the operating room and related areas. Principles of pathology and basic concepts of microbiology are studied as they apply to the practice of surgery. Instrumentation identification, care and use; sterilization and aseptic techniques are emphasized. Duties and responsibilities of the perioperative team are defined. Concepts of surgical consciousness and critical thinking are developed. Prerequisite: HSC V003, PRN V022, HSC V405. Corequisite: STS V008. Pre/corequisite: HSC V530C. Lab fee \$50.00. Insurance fee \$22.00.

**STS V120 Surgical Specialties (0)** **230 hours**  
This course teaches pre-operative theory, detailed surgical procedures, and special techniques involving the multiple surgical specialties. The peri-operative care of the individual patient is included. Acceptance into the Surgical Technology program required. Prerequisite: STS V003, STS V155C, STS V255L. Lab fee \$50.00.

**STS V255L Surgical Procedures Clinical (0)** **225 hours**  
This course teaches clinical techniques of surgical procedures through observation and participation under professional supervision. Acceptance into the Surgical Technology program required. Prerequisite: STS V003. Corequisite: STS V155C. Insurance fee \$22.00.

**STS V155C Surgical Techniques and Procedures (0)** **210 hours**  
This course teaches the knowledge and skills necessary to function as a surgical technologist in the operating room, including principles of aseptic techniques, correct posture for scrubbing, gowning and gloving, draping, handling of specimens, care and counting of sponges, sharps and instruments. Acceptance into the Surgical Technology program required. Prerequisite: STS V003, STS V008. Lab fee \$50.00.

\*GORDON RULE - must achieve a grade of "C" or higher for the A.A. Degree.

**STS V256L Surgical Specialties Clinical (O)** **300 hours**  
This course teaches clinical techniques of surgical procedures through observation and participation under professional supervision in selected specialty surgical procedures. Acceptance into the Surgical Technology program required. Prerequisite: STS V003, STS V155C, STS V255L. Corequisite: STS V120. Insurance fee \$22.00.

## **SURVEYING**

**SUR 1101 Basic Surveying and Mapping (O)** **3 credits**  
This course includes field surveying measurements techniques, taping corrections, angles by repetition, differential leveling, note reduction, instrument adjustments, traverse closure and area computations.

**SUR 2400 Legal Aspects of Land Surveying (O)** **3 credits**  
This course is a study of the legal principles of boundary location and professionalism, history of boundary surveys, sectional surveys system, property transfer, evidence and procedure for boundary location, water boundaries, minimum technical standards, and Chapter 177 and 42 (Florida Statutes).

**SUR 2402 Legal Descriptions (O)** **3 credits**  
This course is a study of the construction of land descriptions and the techniques of surveying the boundaries of a described parcel of land; sectional breakdown descriptions and surveys, meters and bounds descriptions and surveys, lot and block descriptions and surveys, and water boundary descriptions (including associated calculations). Prerequisite: SUR 2400, SUR 1101.

**SUR 2500 GPS, Electronic and Geodetic Surveying (O)** **4 credits**  
This course teaches EDM Theory, calibration distance measurement and reductions, state plane coordinates, practical astronomy, spherical trigonometry, observation for time, latitude, azimuth, and line of position. Prerequisite: SUR 2600.

**SUR 2600 Intermediate Surveying (O)** **3 credits**  
This course teaches advanced field surveying measurement techniques, error adjustments, intersection, horizontal curves, and computer familiarization. Prerequisite: SUR 1101.

## **THEATRE**

**DAA 1100 Modern Dance I** **3 credits**  
This course teaches basic principles of modern dance using the techniques of Jose Limon and Martha Graham.

**DAA 1101 Modern Dance II** **3 credits**  
This course teaches beginner principles of modern dance technique. History of modern dance and critical analysis of movement styles is introduced.

**DAA 1102 Intermediate Modern Dance I** **3 credits**  
This course teaches intermediate level technique in modern dance. The history of modern dance is continued with emphasis on contemporary choreographers and analysis of their styles and contributions to the art form. Prerequisite: DAA 1101.

**DAA 1103 Intermediate Modern Dance II** **3 credits**  
This course teaches advanced intermediate level technique in modern dance. The history of modern dance is continued with emphasis on contemporary choreographers and analysis of their styles and contributions to the art form. Improvisation techniques are developed. Prerequisite: DAA 1102.

**DAA 1200 Ballet I** **3 credits**  
This course teaches the basic movements and exercises of classical ballet, center floor and jumps are taught with emphasis on body alignment and positions of the feet arms.

- DAA 1201 Ballet II** **3 credits**  
 This course teaches the beginning technique of classical ballet. Work at the barre, center floor and jumps are taught with emphasis on body alignment and positions of the feet and arms. More advanced terminology is introduced, as well as differentiation between the Russian and French traditions in ballet. Beginning pointe work is introduced with emphasis on ankle strength and balance. Prerequisite: DAA 1200.
- DAA 1202 Intermediate Ballet I** **3 credits**  
 This course teaches the beginning intermediate technique of classical ballet. Work at the barre, center floor and jumps are taught with emphasis on body alignment and position of the feet and arms. The introduction of human anatomy is studied to aid the student in the principles of human movement. Pointe work is continued, and partnering techniques are introduced. Prerequisite: DAA 1201.
- DAA 1203 Intermediate Ballet II** **3 credits**  
 This course teaches the advanced intermediate technique of classical ballet. Work at the barre, center floor and jumps are taught with emphasis on body alignment and positions of the feet and arms. The continued study of human anatomy applies the knowledge to practical applications. Pointe work with partnering is continued. Prerequisite: DAA 1202.
- DAA 1500 Jazz Dance** **2 credits**  
 This course teaches the fundamental skills, techniques, steps, and terminology in jazz dance.
- DAA 1680 Dance Performance** **1 credit**  
 This course provides for the practical application of dance performance skills, techniques, and conditioning through the production of studio and Main Stage dance productions. Insurance fee \$22.00.
- DAA 1610 Dance Composition I** **2 credits**  
 This course teaches basic dance improvisation, choreography, and composition using basic rhythmic and spatial movement elements. Prerequisite: DAA 1101.
- ORI 1001 Oral Interpretation (P)\*** **3 credits**  
 This course studies literature by preparing literature for oral performance to an audience. The students identify, practice, and select appropriate vocal techniques to effectively communicate the literature to the listener. The students will perform in class and demonstrate college-level writing skills through multiple assignments. Prerequisite: student must score into college-level English and reading on placement test.
- DAN 1740 Dance Conditioning** **1 credit**  
 This course teaches basic strengthening, toning, stretching exercises and techniques for dance.
- DAN 1741 Dance Conditioning II** **1 credit**  
 This course teaches basic skills of strength training. The course includes work in cardiovascular fitness, muscle toning, resistance training and stretching. Students learn the proper techniques for lifting free weights, using resistance bands, and executing sit-ups.
- DAN 1742 Dance Conditioning III** **1 credit**  
 This course teaches basic skills of strength training. The course includes work in cardiovascular fitness, muscle toning, resistance training and stretching. Students learn the proper techniques for lifting free weights, using resistance bands, and executing sit-ups. Prerequisite: DAN 1740, DAN 1741.
- TPA 1020 Introduction to Stage Lighting** **3 credits**  
 This course teaches the fundamental theory, styles and functions, lighting instrumentation, lighting control equipment, and required skills of theatrical lighting. The students participate in production hang and focus work sessions.

\*GORDON RULE - must achieve a grade of "C" or higher for the A.A. Degree.

- THE 1000 Introduction to Theatre (Drama) (P)\*** **3 credits**  
This course teaches the form, purpose, history and development of the theatre arts through the survey and study of representative dramatic literature. Performance is not required. Students demonstrate college-level writing skills through multiple assignments. Prerequisite: student must score into college-level English and reading on placement test.
- TPP 1110 Acting (P)\*** **3 credits**  
This course examines the fundamental acting principles and techniques. Students perform short scenes and improvisation exercises in class and demonstrate college-level writing skills through multiple assignments. Prerequisite: student must score into college-level English and reading on placement test.
- THE 2300 Survey of Dramatic Literature (P)\*** **3 credits**  
This course provides a historical overview of the theatre art from classic Greek to Modern Realism by presenting and discussing selected plays from significant theatrical genres. The students demonstrate college-level writing skills through multiple writing assignments. Prerequisite: student must score into college-level English and reading on placement test.
- TPA 2290 Technical Theatre** **1 credit**  
This course provides practice in skills needed in Stagecraft stage lighting, sound, scene design, and set construction. Students will participate in the technical theatre process for the Fine Arts season production. Insurance fee \$6.50.
- TPA 1200 Beginning Stagecraft** **3 credits**  
This course examines the basic materials, tools, procedures, and equipment used in the construction of stage scenery and properties. The students participate in the backstage technical crews of the IRSC Fine Arts mainstage productions.
- TPA 1211 Stagecraft II** **3 credits**  
This course teaches advanced scenery construction techniques, theatre rigging, properties construction, tool utilization techniques, safe work practices for stage and shop equipment. Students serve in leadership capacities in production activities. Prerequisite: TPA 1200.
- TPA 1208 Drafting for the Stage (O)** **3 credits**  
This course teaches the fundamentals of drafting for theatre arts applications.
- TPA 1272 Beginning Rigging** **1 credit**  
This course provides an introduction to and an application of the basic principles of theatrical rigging. The students study various rigging systems, the components and operation of counterweight rigging systems, the selection and use of fiber and wire ropes, and the proper and safe rigging of flying objects.
- TPA 1930 Directing Seminar (P)** **1 credit**  
This course provides an overview of the theater directing process. The seminar outlines the director's relationship with the production staff and performers and discusses the use and function of the theater components.
- TPA 2220 Introduction to Stage Lighting** **3 credits**  
This course teaches the fundamentals of lighting for the stage, basic introduction to electricity, stage lighting instrumentation and control, and production procedures and methods.
- TPA 2221 Advanced Stage Lighting** **3 credits**  
This course teaches advanced knowledge in stage lighting, instrumentation for the stage, and color theory. Prerequisite: TPA 2220.
- TPA 2252 Introduction to Audio Visual Technology** **3 credits**  
This course teaches the functions, set-up, operation, and maintenance of basic audiovisual equipment for the entertainment industry. This basic equipment includes video and 35 mm slide projectors, 16mm projectors, monitors, computers, and projection screens.

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- TPP 1190 Rehearsal and Performance Lab (P)** **1 credit**  
 This course provides for practical application of performance techniques including production of scenes and complete plays. Insurance fee \$6.50.
- TPP 2192 Advanced Rehearsal and Performance Lab (P)** **1 credit**  
 This course provides for the practical application of vocal and physical acting performance techniques including the production of scenes and complete plays. Audition and permission of the instructor required. Prerequisite: TPP 1190. Insurance fee \$6.50.
- TPA 2260 Sound for the Stage** **3 credits**  
 This course teaches the theory and practice of sound reinforcement and recording for the entertainment industry.
- TPA 1230 Theatre Costuming I** **3 credits**  
 This course teaches basic theatrical costume construction skills and techniques.
- TPA 1077 Beginning Scenic Painting** **3 credits**  
 This course teaches the fundamental theory, mixing and application techniques, texturing techniques, utensils, and materials for theatrical scenic painting.
- TPA 2282 Theatre Equipment Maintenance** **2 credits**  
 This course teaches a systematic approach to the maintenance and trouble shooting of theatre sound, scenery shop, rigging, and lighting equipment.
- TPA 1248 Stage Make-up** **3 credits**  
 This course teaches the fundamental theory, application techniques, tools, and materials for theatrical production make-up.

## TRAVEL AGENCY

- HMV V941 Travel Agency Internship (O)** **75 - 300 hours**  
 This course teaches technical work skills, software applications, human relations, communication skills, and employability skills as they relate to the travel agency industry. Prerequisite/Corequisite: HMV V707.
- HMV V707 Travel Agency Operations (O)** **75 hours**  
 This course teaches the basics of travel agency operations and the requisite employability skills needed for success in the operation of a travel agency. This introductory course includes communication skills, human relations, employability skills, technical skills required in the industry, sales techniques, and business ownership skills.
- HMV V731 Airline/Travel Computer Operations (O)** **75 hours**  
 This course teaches terminology used in the travel industry, software formats required to confirm and sell airline tickets, and Internet related resources and services are discussed. Instruction is provided with hand-on experience with an airline terminal simulator. Prerequisite: HMV V707.

## VOCATIONAL REHABILITATION

- VPI V522 Supported Competitive Employment for Adults with Disabilities (O)** **300 hours**  
 This course teaches the skills necessary for successful employment to individuals with moderate and severe disabilities who are functioning at supported levels. Supported employment refers to competitive work in an integrated work setting with ongoing support services for individuals with moderate and severe disabilities for whom competitive employment has not traditionally occurred. Features of supported employment include intensive on-site training, fade-off, ongoing monitoring, and on-site advocacy. Students receive one-to-one intensive training by a job coach or employment specialist. The weekly work hour goal is identified in the student's Adult Individual Educational Plan. (AIEP),

- SLS V933 Special Topics in Work Skills (O) 300 hours**  
This course teaches how to develop realistic employment goals as well as identify potential careers available in the community. Interpersonal skills on the job, understanding the workplace culture and comparing the differences in workplace settings through site visits and classroom lectures are emphasized. Course content covers specific skills and the tools, technology and supplies needed to complete specific jobs for occupations such as housekeeping, laundry, retail, culinary, assembly and landscaping/horticulture. An on-the-job component teaches workplace applications of the theoretical concepts introduced in the classroom components.
- SLS V390 Employability Skills I (O) 225 hours**  
This course teaches how to determine realistic employment goals and identify potential careers available in the community. The content deals with comparing personal strengths and weaknesses, including physical and cognitive abilities, to specific job requirements and demonstrating employability skills appropriate to the workplace. Recommended corequisite: SLS V936.
- SLS V391 Employability Skills II (O) 225 hours**  
This course teaches how to manage interpersonal relationships. The content includes the importance of participating as a team player, portraying a positive attitude in the workplace, and maintaining a positive relationship with a supervisor. Recommended corequisite: SLS V936.
- SLS V936 On-the-Job Training/Vocational Education (O) 75 hours**  
This course teaches the applied concepts introduced in the classroom components of the Vocational Education for Students with Disabilities program through on-the-job training. Recommended: This course should be taken with other program courses.
- SLS V341 Practical Employability Skills (O) various hours**  
This course provides students employability skills. The content includes: how to obtain personal and occupational information necessary in choosing a career, how to prepare for the job hunt, how to get leads on jobs, and how to contact potential employers. Writing of résumés, completing applications, and checking payroll deductions are covered, as will handling of promotions, resignation, job loss, and career changes.
- VPI V404 Diversified Career Technology Management (O) 600 hours**  
This course teaches competencies and mastery in the areas of employability (human resource); environmental, health, and safety; professional, legal and ethical workplace responsibilities; financial planning, leadership skills, communication skills, labor and human resource issues related to the workplace; global and economic issues, a business plan, employability skills related to life and career goals; managerial/supervisory uses of technology, the five functions of management, the role of the manager, and technical and production skills.
- VPI V403 Diversified Career Technology Applications (O) 300 hours**  
This course teaches environmental, health, and safety skills; professional, legal, and ethical responsibilities; financial management skills, leadership skills, social, legal, and economic aspects of employment; international economic principles, components of a business plan, decision-making skills to life and career goals, technical skills and the functions of management.
- VPI V940 Diversified Career Technology (O) 210 hours**  
This course teaches the competencies in a specific career and to demonstrate legal and ethical behavior within the role and scope of job responsibilities through a realistic, on-the-job training experience. An individualized training plan is developed and utilized to ensure that training is provided which develops the necessary competencies/skills in order for the student to become competent in the occupation for which he/she is being trained.

**VPI V523 Work Certified (0)****90 hours**

This course teaches the beginning principles for a variety of employment related skills to develop competencies in the professional, legal, and ethical issues of finance, leadership, communication, labor and human resources, economics, entrepreneurship, and career planning.

**WELDING****PMT 1120 Electric Welding I (0)****4 credits**

This course covers shielded metal arc welding safety, equipment, basic joint configurations, codes and standards. Extensive practice in the flat position and beginning work in the vertical position are also covered. Lab fee \$50.00.

**PMT 1125 Electric Welding II (0)****4 credits**

This course covers advanced electric welding techniques which includes shielded metal arc welding (SMA) in the vertical position. Theory, setup, and practice in metal inert gas (MIG) and tungsten inert gas (TIG) welding of ferrous and nonferrous metals are also covered. Lab fee \$50.00

**PMT 1100 Welding Certification Prep (0)****½ credit**

This course provides review of welding techniques and procedures to prepare students for the American Welding Society (AWS) welding certifications.

**PMT 1128 Combination Welding I (0)****4 credits**

This course provides fundamental theory of all types of conventional welding, the welding industry, career offerings, and theory and laboratory exercises to develop proficiency in oxyfuel welding, cutting, brazing, and soldering. Lab fee \$60.00.

**PMT 2930 Welding Fabrication Techniques (0)****3 credits**

This course expands the skills and competencies gained in past welding curriculum. Basic layout and material usage, material identification, and welding process selection are taught. Lab fee \$30.00.

**PMT 2931 Welding Design and Fabrication (0)****4 credits**

This course teaches advanced techniques in metal fabrication. Advanced layout and blueprint interpretation are taught. Lab fee \$60.00.

**PMT V123 Oxyfuel Welding/Cutting I (0)****150 hours**

This course teaches basic shop skills including communication and leadership skills. Competencies apply safety and health practices, measuring skills and basic oxyfuel gas cutting principles and practices. Application of basic shielded metal arc welding skills is performed.

**PMT V124 Oxyfuel Welding/Cutting II (0)****150 hours**

This course teaches an understanding of entrepreneurship and identifies the business skills needed to operate a small business efficiently and effectively. Demonstration of appropriate math skills and an understanding of basic science are applied. Intermediate manual oxyfuel gas cutting skills are performed. Prerequisite: PMT V123.

**PMT V164 ARC Welding I (0)****150 hours**

This course teaches the competencies essential to intermediate shielded metal ARC welding skills. These competencies include application of visual examination skills, drawing and welding symbol interpretation skills and demonstration of ARC cutting principles and practices. Prerequisite: PMT V124.

**PMT V165 ARC Welding II (0)****150 hours**

This course teaches the identification and classification of metals with competencies including basic gas metal ARC welding skills. Prerequisite: PMT V164.

**PMT V147 Gas Metal ARC Welding (0)****150 hours**

This course teaches application of basic and intermediate gas metal ARC welding skills. Prerequisite: PMT V165.

**PMT V141 Flux Core ARC Welding (O) 150 hours**

This course teaches the operation of flux cored ARC welding equipment to make groove welds in all positions, on plain carbon steel. Prerequisite: PMT V147.

**PMT V150 Gas Tungsten ARC Welding (O) 150 hours**

This course teaches the basic and intermediate gas tungsten ARC welding skills. Prerequisite: PMT V147.

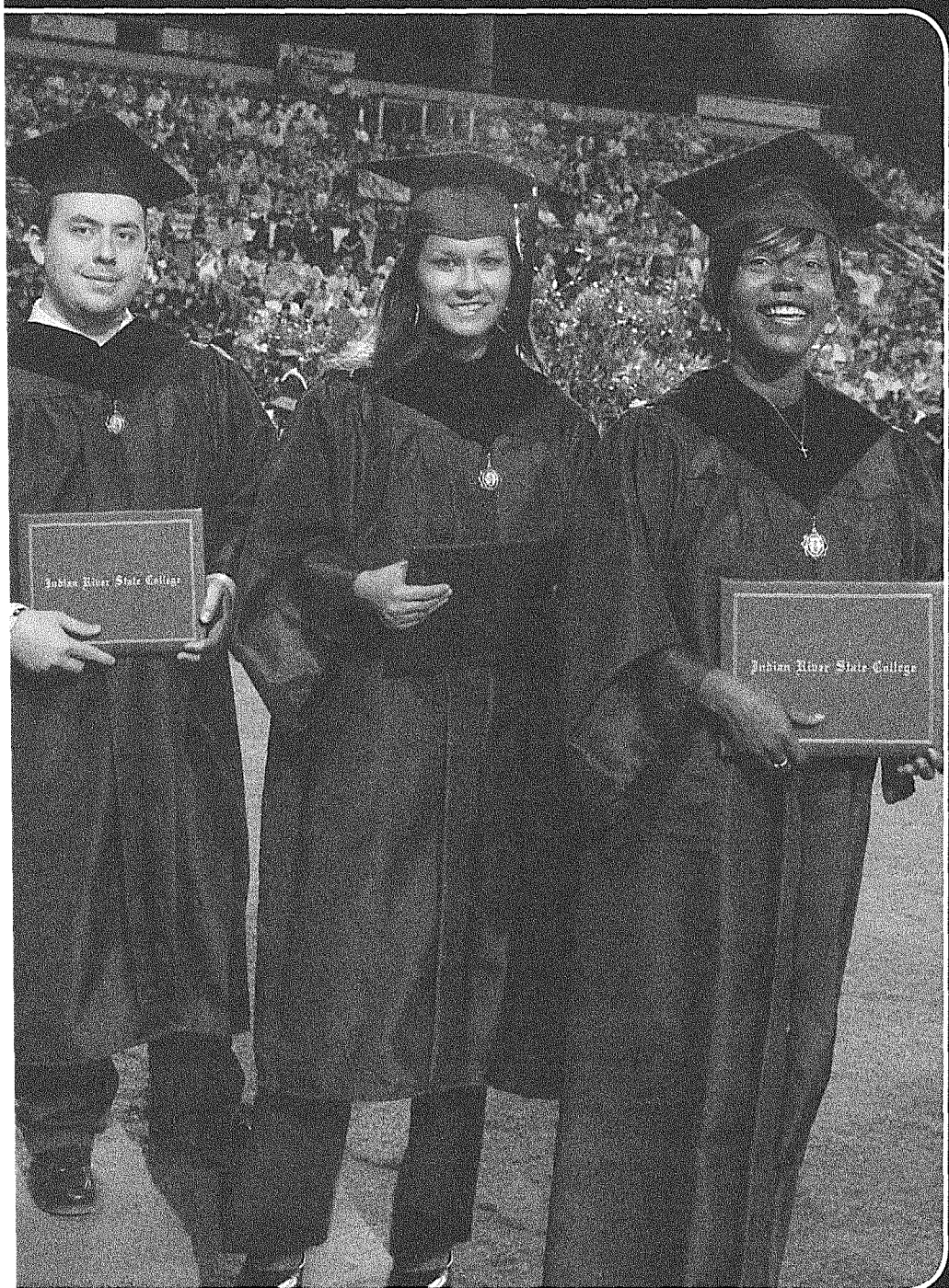
**PMT V161 Pipe Welding (O) 150 hours**

This course teaches pipe welding using current AWS qualifications including repair and fabrication of ferrous and non-ferrous metals. Prerequisite: PMT V150.

**WOODWORKING**

**BCV V230 Introduction to Cabinet Making (O) 45 hours**

This course prepares students for employment as cabinet makers or cabinet and trim installers. After completing this class, the student should know safety procedures and be able to use the tools required for this profession. The content of the course includes safe and efficient work procedures, constructing casework, fixtures, window and door frames, molding, and trim work. Lab fee \$20.00.



**COLLEGE ORGANIZATION**

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 M.U.R.P., University of Miami
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 M. Ed., Tuskegee University  
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 Ed.S., Alabama State University  
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M.P.S., Alfred University

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Ph.D., Yale University  
M.D., University of Miami

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D.O., University of New England

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- Don R. Symington** ..... *Dental Laboratory Technology*  
 Certificate, Hennepin Technical Center  
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 M.Ed., Florida Atlantic University  
 Ed.S., Florida State University

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 Ph.D., University of Central Florida
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 Ph.D., University of North Texas
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 A.A. Community College of the Air Force  
 B.S., Limestone College  
 M.A., Webster University
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 A.A., Indian River Community College  
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 M.S., Florida Institute of Technology
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 B.S.N., Barry University  
 M.B.A., Barry University  
 M.S.N., Barry University  
 Ph.D., University of South Florida

**COUNSELING FACULTY**

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 M.A., Eastern Kentucky State College  
 M.S., Nova Southeastern University
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 B.S., Florida State University  
 M.S., Amberton University
- Angela C. Bayer**.....A.B., West Virginia University  
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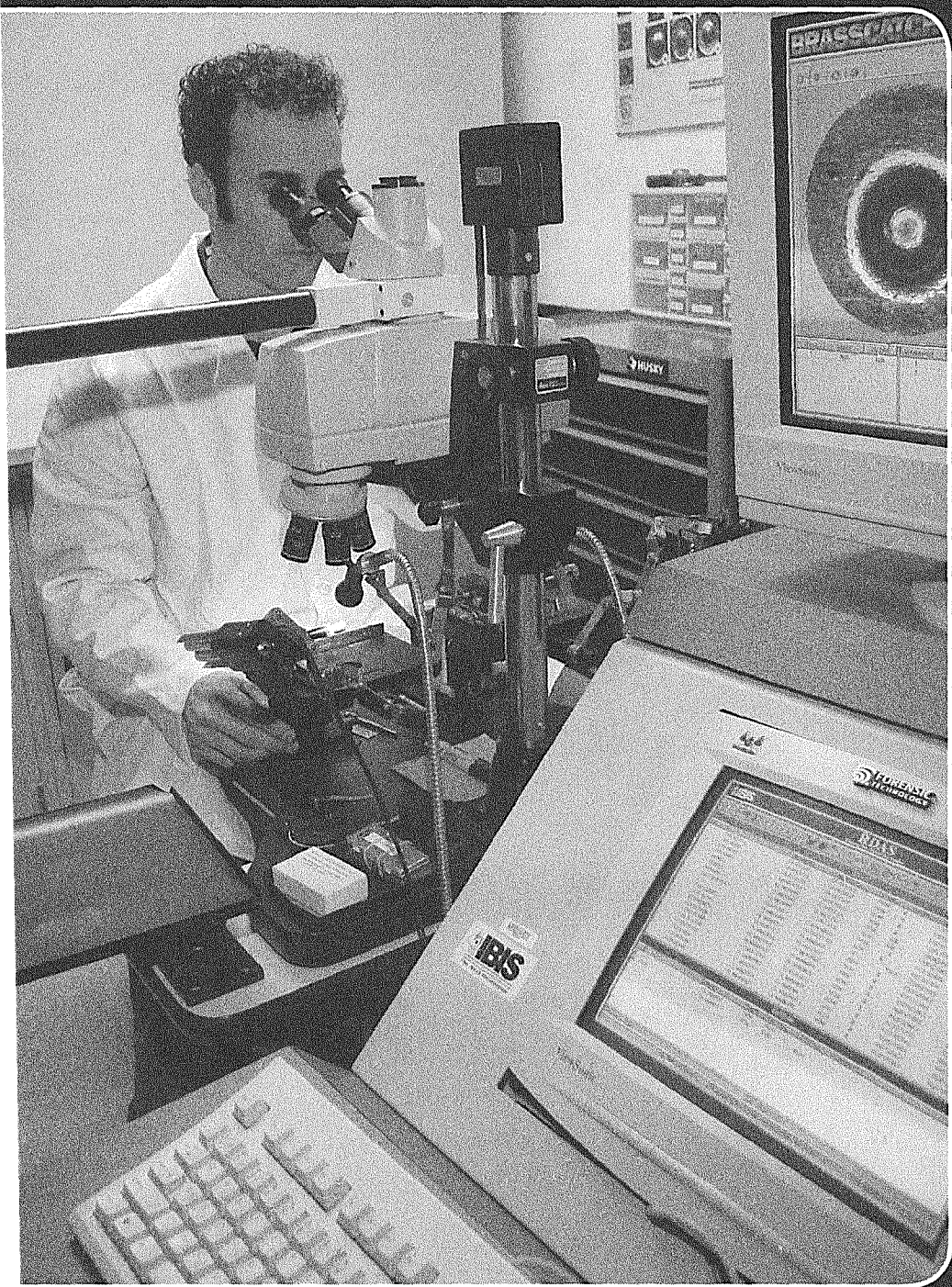
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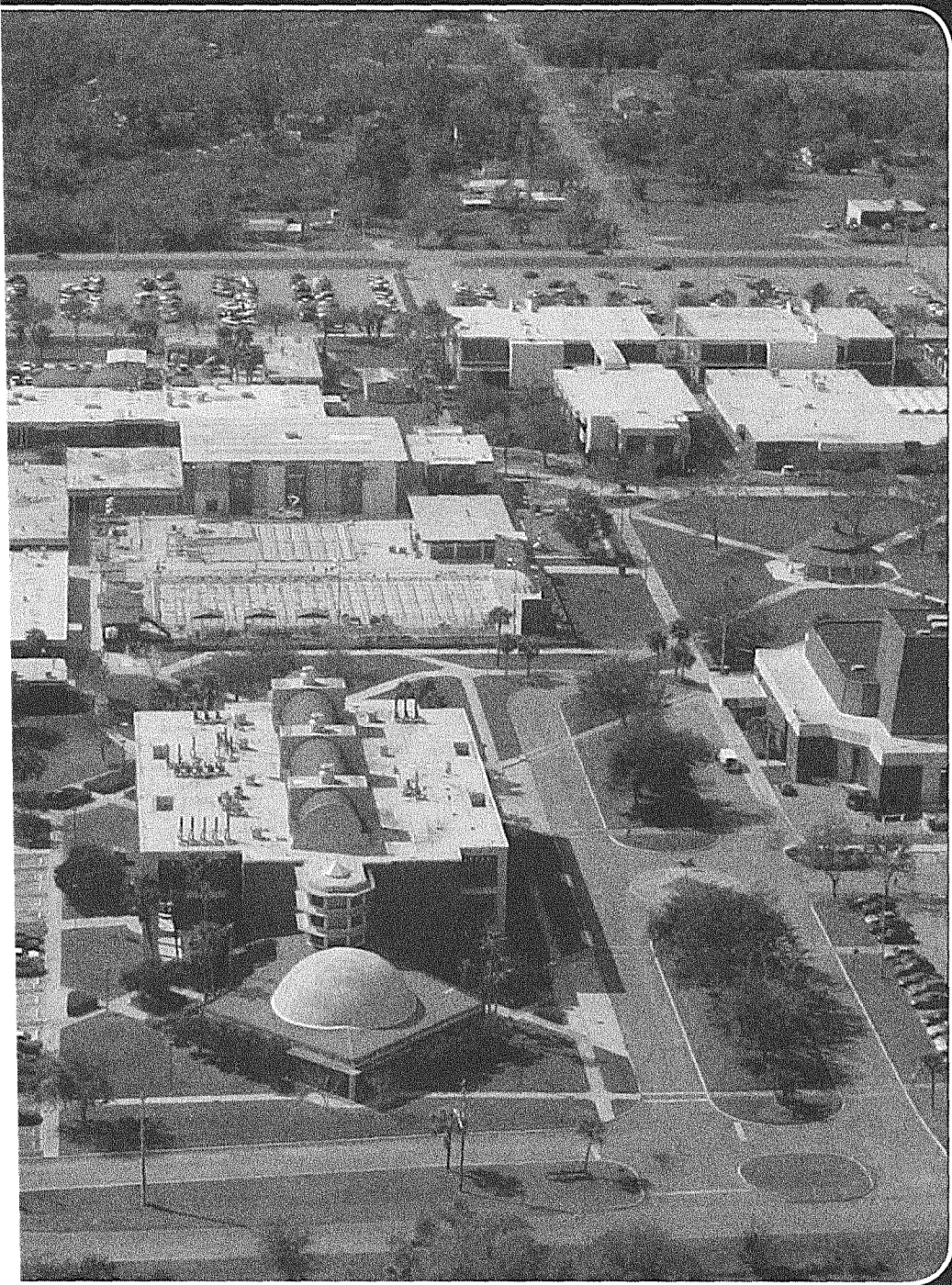
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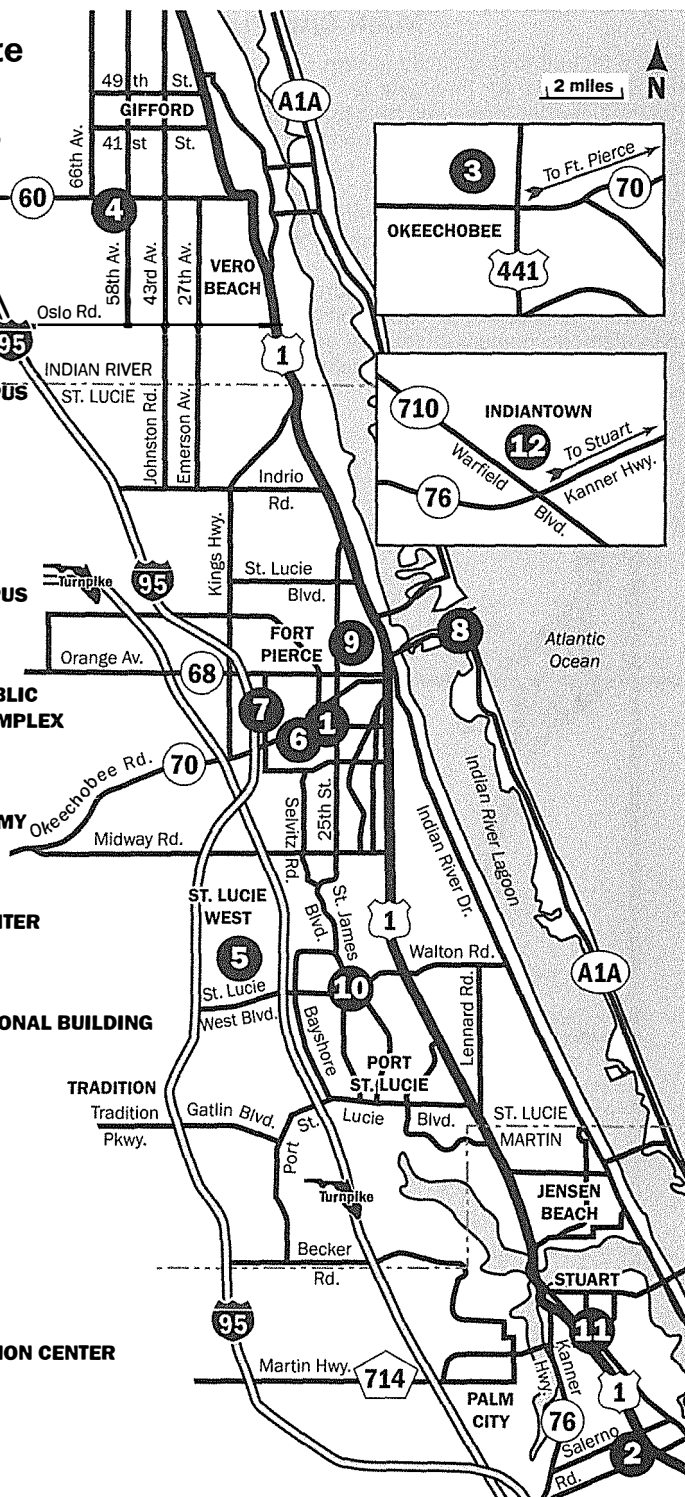
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# Indian River State College Campus & Site Locations

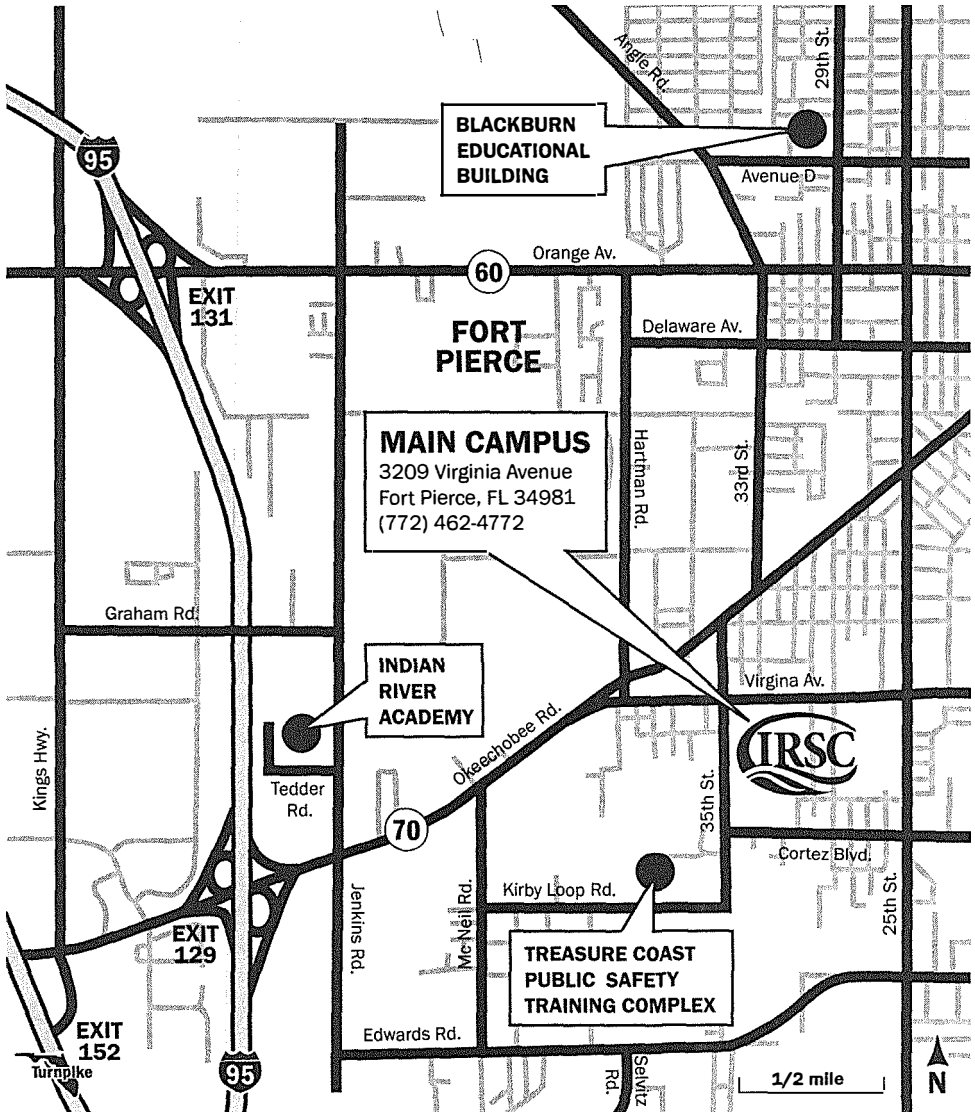
- 1 MAIN CAMPUS**  
3209 Virginia Avenue  
Fort Pierce, FL 34981  
(772) 462-4722
- 2 CHASTAIN CAMPUS**  
2400 S.E. Salerno Road  
Stuart, FL 34997  
(772) 283-6550
- 3 DIXON HENDRY CAMPUS**  
2229 N.W. 9th Avenue  
Okeechobee, FL 34972  
(863) 824-6000
- 4 MUELLER CAMPUS**  
6155 College Lane  
Vero Beach, FL 32966  
(772) 569-0333
- 5 ST. LUCIE WEST CAMPUS**  
500 N.W. California Blvd.  
Port St. Lucie, FL 34986  
(772) 879-4199
- 6 TREASURE COAST PUBLIC  
SAFETY TRAINING COMPLEX**  
4600 Kirby Loop Road  
Fort Pierce, FL 34981  
(772) 462-7676
- 7 INDIAN RIVER ACADEMY**  
5900 Tedder Road  
Fort Pierce, FL 34947
- 8 MARINE SCIENCE CENTER**  
1420 Seaway Drive  
Fort Pierce, FL 34949
- 9 BLACKBURN EDUCATIONAL BUILDING**  
3002 Avenue D  
Fort Pierce, FL 34950  
(772) 462-7100
- 10 PRIMA VISTA ADULT  
EDUCATION CENTER**  
419 Irving Street  
Port St. Lucie, FL 34983  
(772) 343-9553
- 11 STUART SQUARE SITE**  
1994 S.E. Federal Hwy.  
Stuart, FL 34994  
(772) 419-5690
- 12 INDIANTOWN EDUCATION CENTER**  
15655 S.W. Osceola Street  
Indiantown, FL 34956  
(772) 597-5130



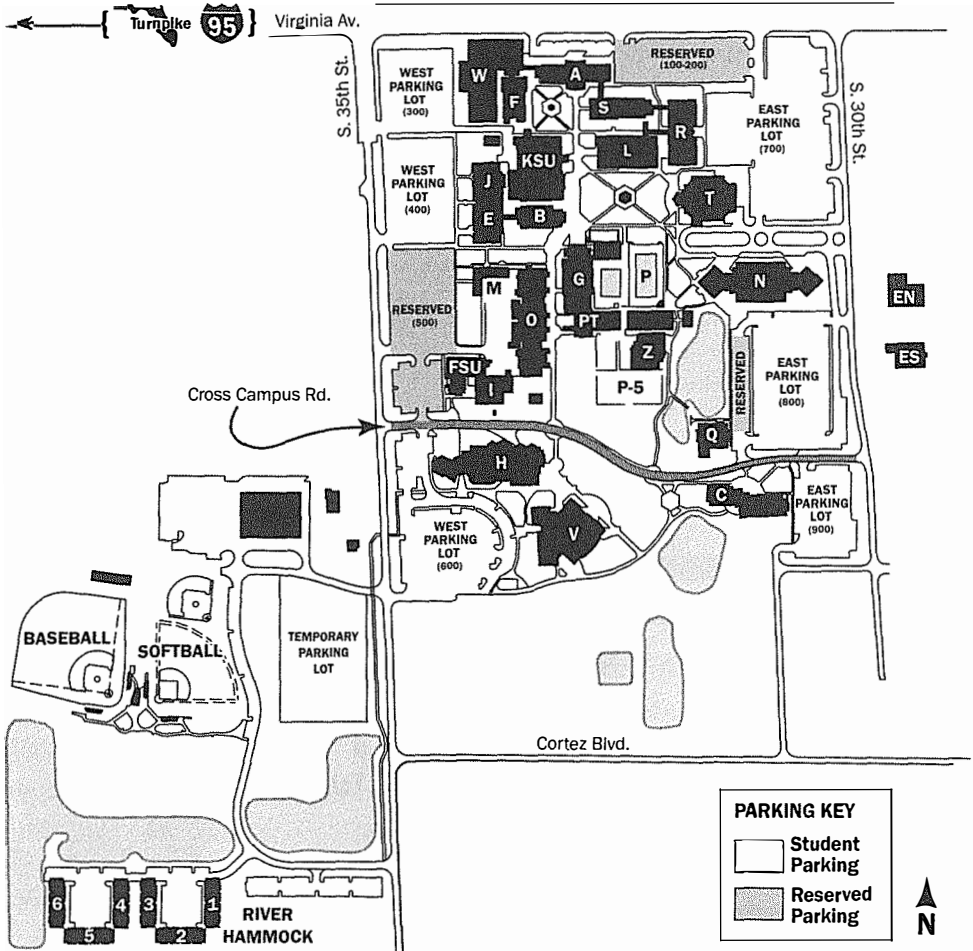
### MAIN CAMPUS • FORT PIERCE

IRSC's Main Campus encompasses 54 buildings on 295 acres. Outstanding facilities include the Kight Center for Emerging Technologies, the state-of-the-art Mary L. Fields Health Science Center, Science Center and Hallstrom Planetarium, the Tomeu Center for Career and Academic Advancement, the Brenda & Vernon Smith Center for Medical Education, a 65,000-volume library featuring electronic access to information, McAlpin Fine Arts Center, Wynne Black Box Theatre, gymnasium, world-class Anne Wilder swimming complex, a regional crime lab, fire science training center, a modern child development center, physical fitness lab, physical therapy assistant training center and WQCS, an FM national public radio station.

Dedicated in Fall 2009, the Treasure Coast Public Safety Training Complex is the nation's most comprehensive center for education and professional development in criminal justice, emergency management, homeland security and fire science. The state of the art \$38 million complex attracts professionals in these fields from around the nation and the world for seminars and conferences.



MAIN CAMPUS • FORT PIERCE



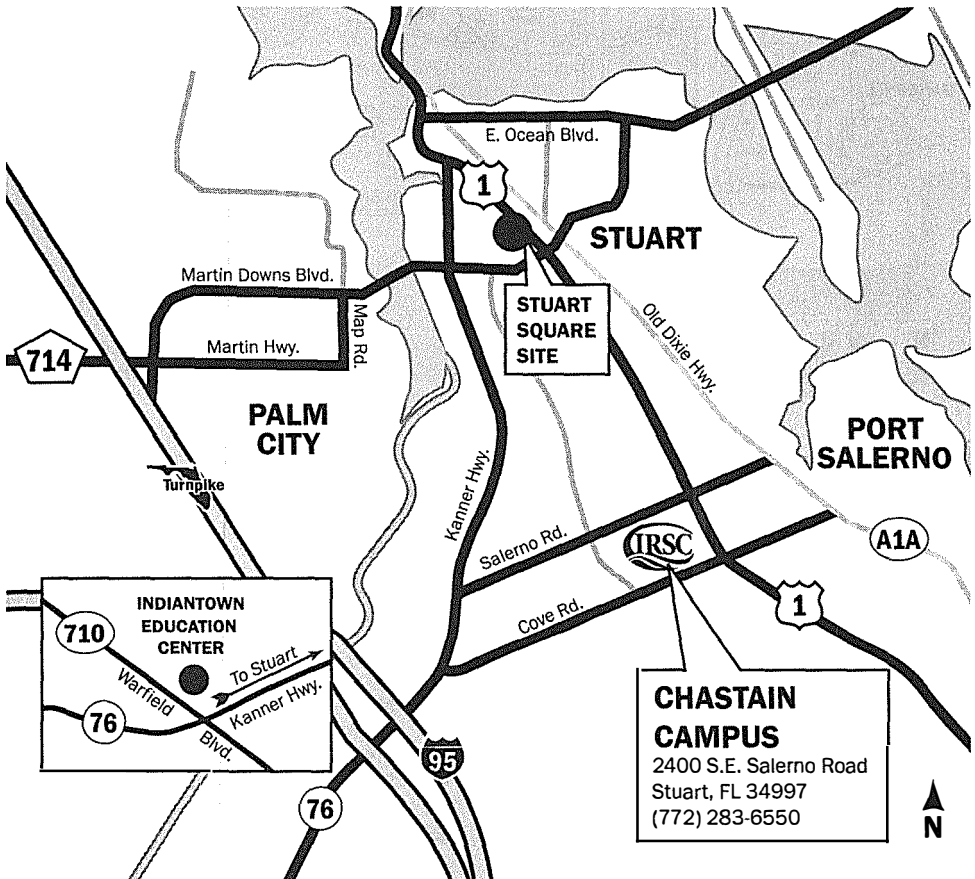
LEGEND

- |  |   |
|--|---|
| <p><b>A</b> Ben L. Bryan, Sr. Administration Building</p> <p><b>B</b> Business Development Center</p> <p><b>C</b> Tomeu Center for Career &amp; Academic Advancement</p> <p><b>E</b> National City Careers Building/Corporate &amp; Community Training Institute</p> <p><b>F</b> Administration Annex</p> <p><b>FSU</b> Brenda &amp; Vernon Smith Center for Medical Education</p> <p><b>G</b> Gymnasium</p> <p><b>H</b> Mary L. Fields Health Science Center</p> <p><b>I</b> Crime Lab</p> <p><b>J</b> Classroom Building</p> <p><b>KSU</b> Koblegard Student Union (Bookstore, Cafeteria, Mailroom)</p> <p><b>L</b> Miley Library &amp; Academic Support Center</p> <p><b>M</b> Print Shop</p> | <p><b>N</b> Science Center/Hallstrom Planetarium</p> <p><b>O</b> Occupational Building</p> <p><b>P</b> Anne Wilder Aquatic Complex</p> <p><b>PT</b> Physical Therapy</p> <p><b>P5</b> Tennis Courts</p> <p><b>Q</b> Radio Station - WQCS</p> <p><b>R</b> Classroom Building &amp; Wynne Black Box Theatre</p> <p><b>S</b> Leroy C. Floyd Administrative Services Building</p> <p><b>T</b> McAlpin Fine Arts Center</p> <p><b>V</b> Kight Center for Emerging Technologies</p> <p><b>W</b> Crews Hall (Registration, Financial Aid, Student Services, Security)</p> <p><b>EN</b> Institute of Cosmetology &amp; Barbering</p> <p><b>ES</b> Child Development Center</p> <p><b>Z</b> Racquetball Courts</p> |
|--|---|

## CHASTAIN CAMPUS • STUART

The Chastain Campus provides a wide range of programs during the day, evening, and weekend hours. Students may complete the entire A.A. degree and many A.S. degree programs at this location. The Robert Morgade Administration & Student Services Center provides an array of student services, including a career/financial aid center, bookstore and café. High-tech labs for computer, electronic, and drafting and design programs allow for hands-on learning, using state-of-the-art equipment and software programs to prepare students for high-skill jobs. Customized programs for businesses, an Academic Support Center (ASC), and GED, Adult Basic Education and Adult High School classes are available. In addition, located on this campus is the multi-purpose 15,000 square foot Robert Morgade Library operated in conjunction with the Martin County Library System. The Clare & Gladys Wolf High-Technology Center serves as a hub for technical career preparation and business training and the Clark Advanced Learning Center – a national model charter high school – offers high school sophomores, juniors and seniors the ability to earn both high school and college credits at no cost.

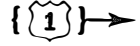
The Incubator helps early stage entrepreneurs grow by providing a wide variety of support services in a professional working environment. Technical training programs are offered at the Indiantown Education Center in addition to a variety of Adult Education classes.



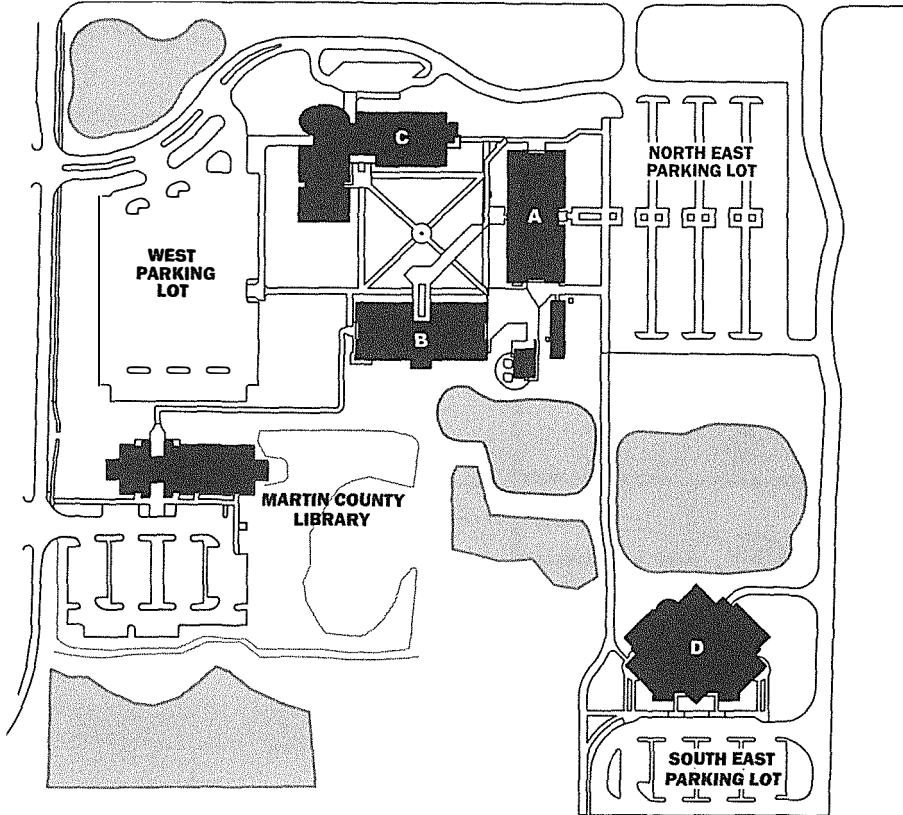
**CHASTAIN CAMPUS**  
 2400 S.E. Salerno Road  
 Stuart, FL 34997  
 (772) 283-6550



CHASTAIN CAMPUS • STUART



S.E. Salerno Rd.



**LEGEND**

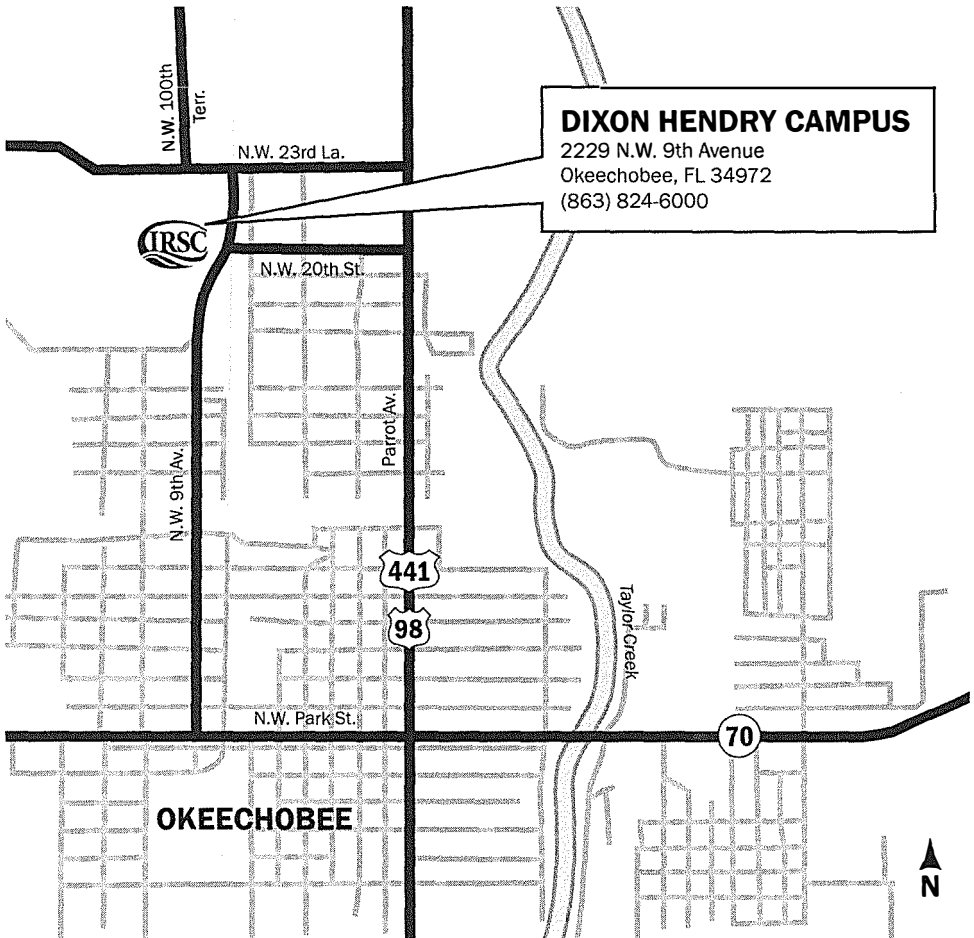
- A** Robert Morgade Administration & Student Services Center
- B** William A. & Helen S. Thomas Career Tech Building
- C** Clare & Gladys Wolf High-Technology Center
- D** Clark Advanced Learning Center



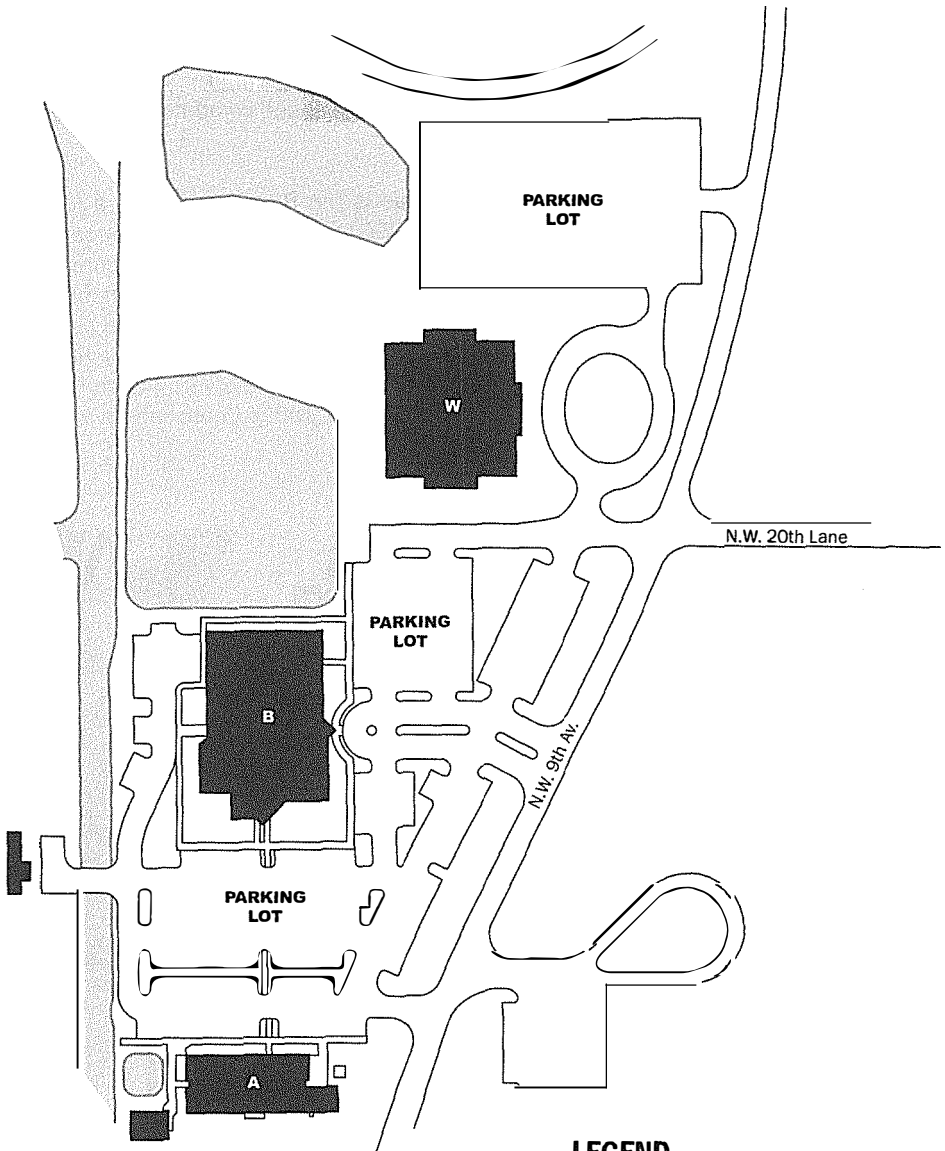
## DIXON HENDRY CAMPUS • OKEECHOBEE

The Dixon Hendry Campus offers a creative and flexible schedule for daytime, evening, and weekend classes for A.A. and A.S./A.A.S Degree programs. The campus is equipped with the latest technology to enhance classroom presentations including: a live interactive TV room, high-tech computer labs and an Academic Support Center (ASC) where students work on GED preparation, receive tutoring, take online tests or use the reference library/study room with Internet access for research. A health science area includes a nursing assistant/medical technology classroom and nursing library. Training programs to meet the needs of the community include: EMT, paramedic, childcare, office administration and culinary apprentice. Customized training for business is also available.

The Williamson Conference & Education Center provides students and Okeechobee residents with a technologically sophisticated facility for academics, conferences, seminars, strategic planning and community events. This state of the art building houses a multi-media auditorium, biology and nursing labs, office skills classroom, strategic planning center, outdoor veranda, a demonstration/catering kitchen and multi-purpose classroom.



DIXON HENDRY CAMPUS • OKEECHOBEE



**LEGEND**

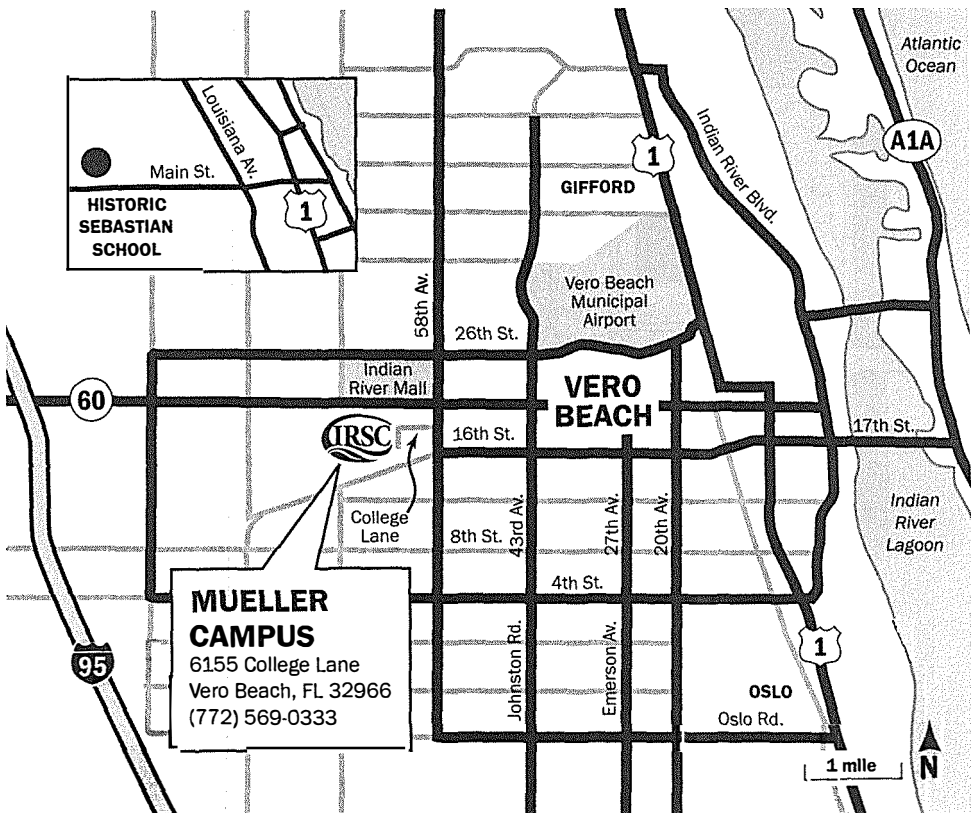
- A** Classroom Building
- B** Administration & Classrooms
- W** Frank "Sonny" & Betty C. Williamson Conference and Education Center



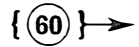
## MUELLER CAMPUS • VERO BEACH

The Mueller Campus offers daytime, evening, and weekend classes leading toward the A.A. and A.S. Degree. Customized industry training, workforce development, computer technology, and professional certification programs are also available. With the opening of the Schumann Center, students can now obtain educational/career counseling, apply for financial aid, register/pay for classes and purchase textbooks all in one place. In addition, the Schumann Center features biology laboratories, a high-speed computer lab for graphic design and a teacher training center.

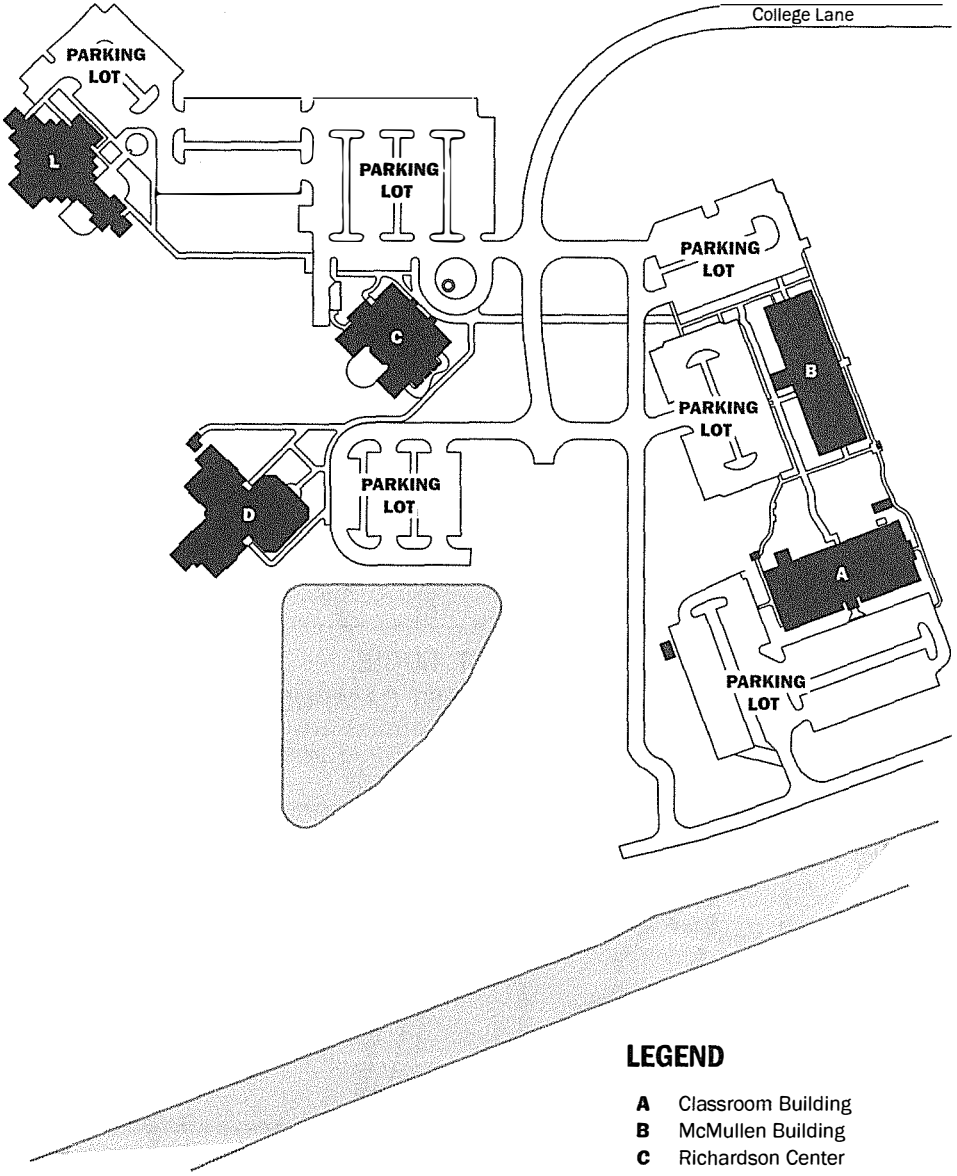
The most recent addition at the Mueller Campus is the Brackett Library, a joint-use facility with Indian River County, which serves both IRSC students and the local community and houses the Marion C. Link Electronic Resource Center. The Richardson Center, home of the Culinary Institute of the Treasure Coast, is an educational, entrepreneurial and conference facility providing a unique high-tech environment for community and economic development activities, business conferences, and a multitude of classes, workshops and seminars. In addition, the Mueller Campus offers art classes at the Vero Beach Museum of Art, provides outreach programs at the Gifford Youth Activities Center and a variety of courses at the Historic Sebastian School.



MUELLER CAMPUS • VERO BEACH



College Lane



**LEGEND**

- A** Classroom Building
- B** McMullen Building
- C** Richardson Center
- D** Schumann Center
- L** Brackett Library

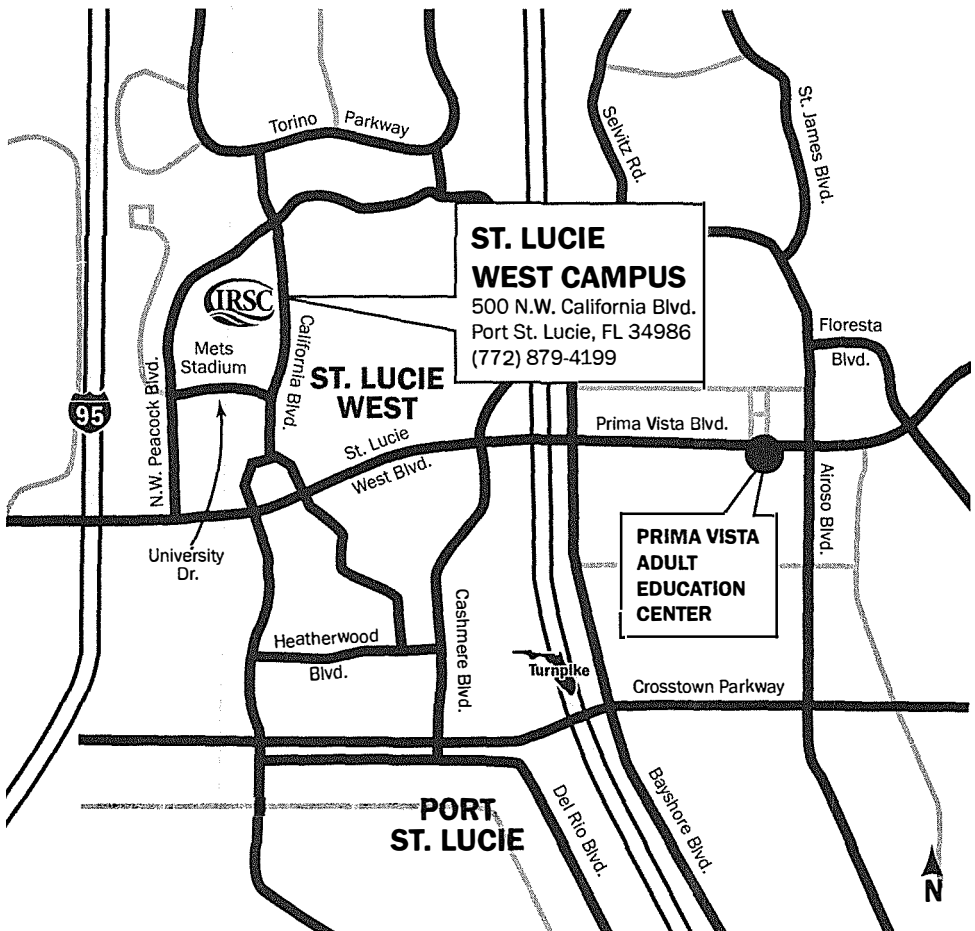


## ST. LUCIE WEST CAMPUS • PORT ST. LUCIE

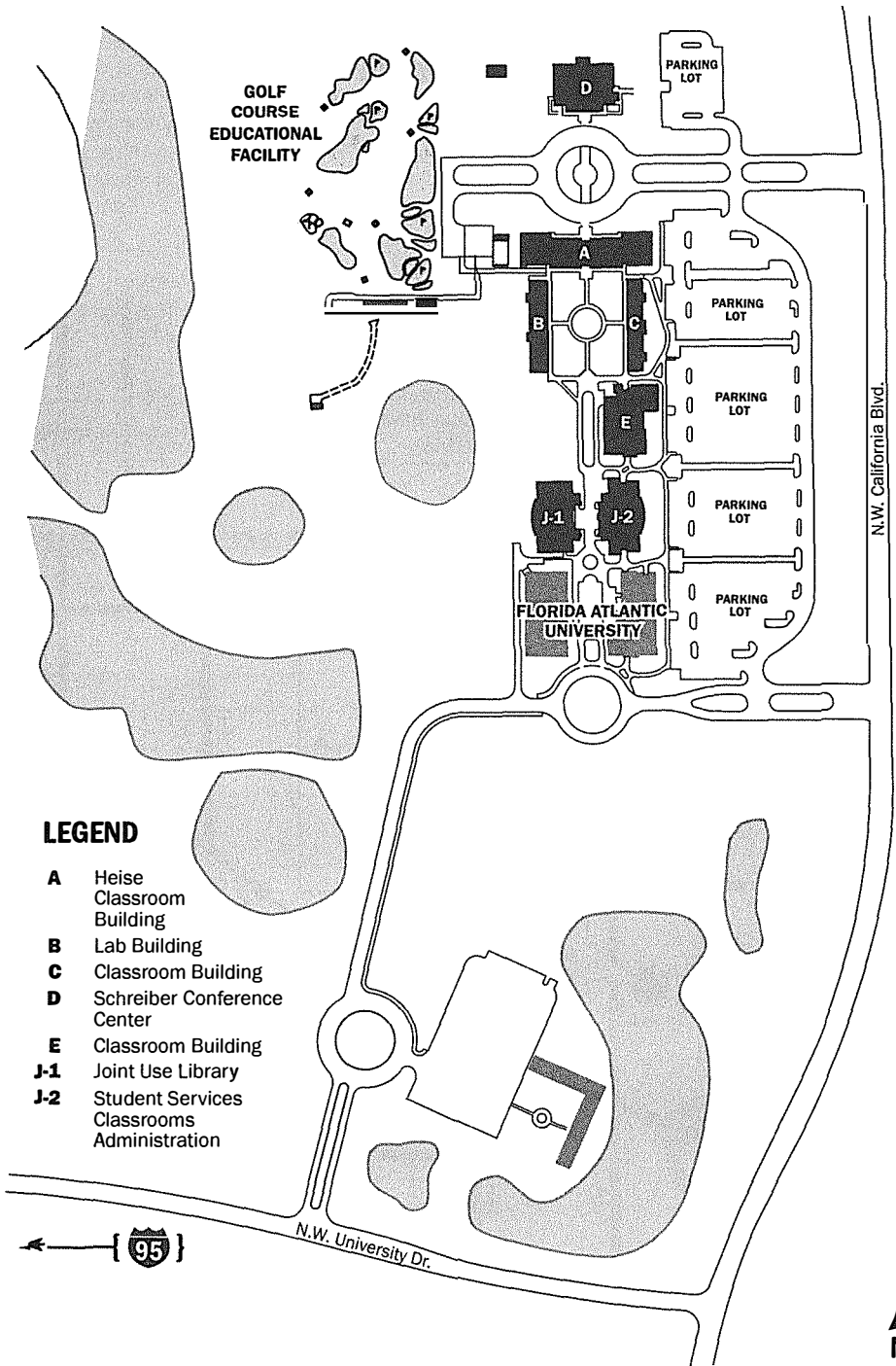
The IRSC St. Lucie West Campus, a joint use campus with Florida Atlantic University, offers an innovative daytime, evening, and Friday only selection of college credit classes for the A.A. Degree. Two-year A.S./A.A.S. Degrees and one-year professional certifications are also available. Golf Course Operations, Landscape & Horticulture Technology and Agricultural Production Technology programs are augmented with a six-hole golf and horticulture lab. English as a Second Language and the GED are offered through the Adult Education Department. A state-of-the-art print and electronic library, free individualized tutoring at the Academic Support Center, which houses a computer lab, assessment center and tutorial lab help to ensure student success.

The Schreiber Conference Center offers customized business training as well as providing a professional venue for local business, government, and community conferences, seminars and meetings.

The St. Lucie West Campus will soon break ground for the new STEM (science, technology, engineering, mathematics) Building, a multi-use facility which will position the College with an exemplary teaching facility to support the life science firms locating in the Research Coast corridor.



**ST. LUCIE WEST CAMPUS • PORT ST. LUCIE**



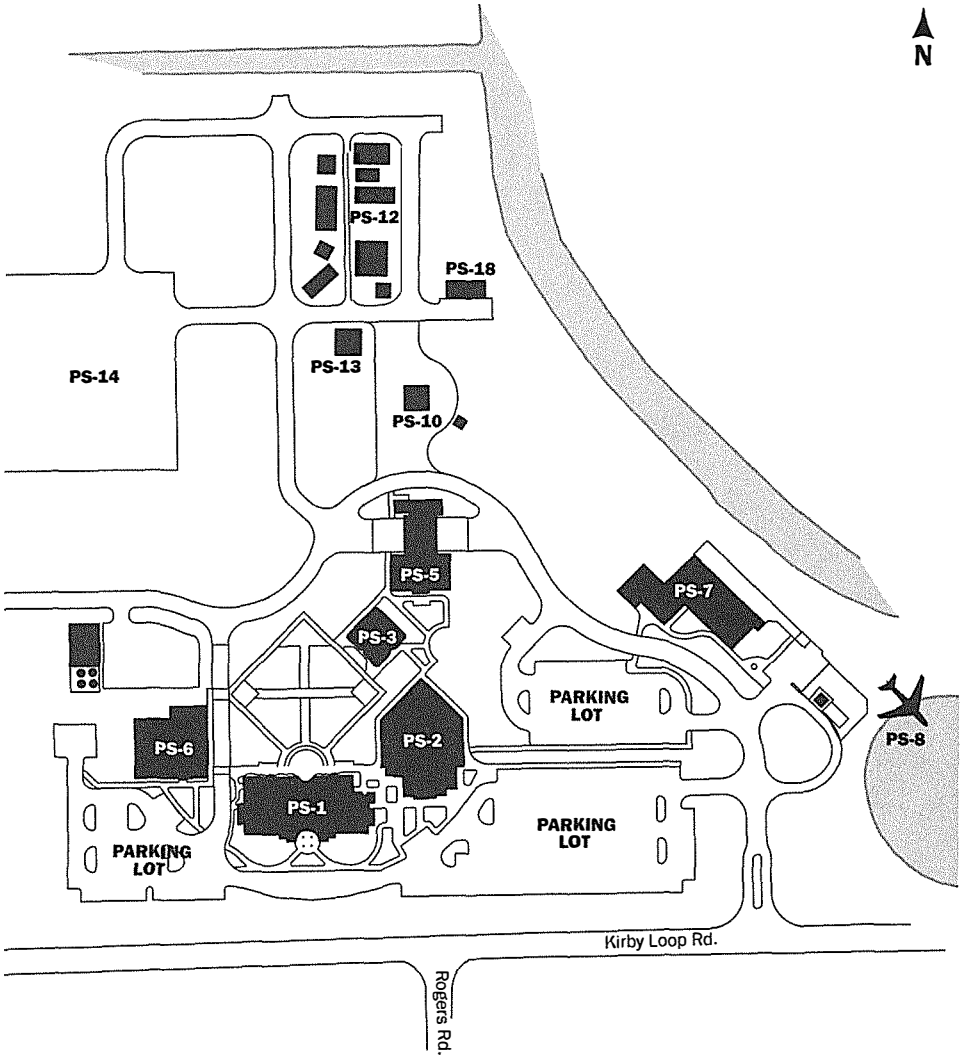
### TREASURE COAST PUBLIC SAFETY TRAINING COMPLEX • FORT PIERCE

An outstanding national model for public safety and disaster relief training, the seven-building, 101,000 square foot Treasure Coast Public Safety Training Complex provides a world-class environment for professional development in coordinated emergency response. Facilities include a Tactical Village enabling students to work as a team to make on-the-spot decisions to defuse simulated crimes and emergencies, virtual reality practice and mock disasters, Incident Command Center for training in field command, Crime Lab observation area for viewing of DNA testing, ballistics, and advanced forensics, Fire Station Training Center, Live Burn Simulator and Mock Court Room.





**TREASURE COAST PUBLIC SAFETY  
TRAINING COMPLEX • FORT PIERCE**



**LEGEND**

- |   |  |
|---|--|
| <b>PS-1</b> Vernon Smith Public Safety Education Building                   | <b>PS-7</b> Indoor Firing Range  |
| <b>PS-2</b> Frank & LeVan Fee Physical and High Liability Training Building | <b>PS-8</b> Dive/Rescue Training Site  |
| <b>PS-3</b> Alan & Katherine Bernstein Tactical Training Building           | <b>PS-10</b> Fire Science Training Tower supported by St. Lucie County Fire District |
| <b>PS-5</b> Robert H. Burroughs Fire Station and Training Center            | <b>PS-12</b> Tactical Training Village   |
| <b>PS-6</b> Neill - Chapin Regional Crime Lab                               | <b>PS-13</b> Observation Pavilion  |
|   | <b>PS-14</b> Jack & Peggy Scott Driving Range Pavilion                               |
|   | <b>PS-18</b> Burn Building   |

# INDIAN RIVER STATE COLLEGE

## *Alma Mater Pioneers*

---

Along the Indian River's shores  
Our College walls will stand.  
While scholarship and fellowship  
Go forward hand in hand.  
The friendships made and knowledge earned  
Will guide us through the years.  
And so with hearts and voices raised,  
We hail the Pioneers.

In troubled times our college days  
Will keep our spirits high.  
With memories of student years  
And hopes that cannot die.  
Devotion to a way of life  
With purpose strong and bold,  
Will fill us as our voices join  
To praise the blue and gold.

Original words and music by  
L.H. Whipple  
September 24, 1961

## INDIAN RIVER STATE COLLEGE EEO/AA EQUITY MISSION STATEMENT

Under the policies of Indian River State College, the College seeks to ensure equal opportunity employment and affirmative action in its educational programs, services and activities and employment policies and procedures for all without regard to race, gender, color, national and ethnic origin, religion, age, disability, sexual orientation, veteran or marital status.

### OFFICIAL NOTICE OF NONDISCRIMINATORY POLICIES/PRACTICES

In compliance with various state and federal regulations, the District Board of Trustees of Indian River State College has approved non-discriminatory practices and policies concerning enrollment, admissions, and equal opportunity employment. This includes an Affirmative Action Program. The following laws collectively prohibit decisions that adversely affect an individual:

**TITLE VII - CIVIL RIGHTS ACT OF 1964:** Prohibits discrimination in employment on the basis of race, color, religion, national origin, or sex. This covers all terms and conditions of employment, including recruitment, selection, discharge, promotion opportunities, training, wages, leave, retirement and fringe benefits.

**TITLE VII - CIVIL RIGHTS ACT OF 1964 AS AMENDED:** No persons shall, on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity receiving federal financial assistance from the Department of Health, Education, and Welfare.

**TITLE IX - EDUCATIONAL AMENDMENTS OF 1972:** Prohibits Sex Discrimination in Education on the basis of sex in its employment practices for both academic and non-academic personnel, or in its admission of students, or in its educational programs or activities. Any inquiries concerning the applications of Title IX should be made to the Associate Dean of Human Resources or to the Equity Officers.

**SECTION 504 - REHABILITATION ACT OF 1973:** Prohibits discrimination against handicapped persons on the basis of handicap. The provisions of this law are equally applicable to employees, employment applicants, students, and student admissions.

**THE AMERICANS WITH DISABILITIES ACT (ADA) OF 1990:** Protects persons with disabling conditions from discriminatory practices in public accommodations, employment, transportation, and telecommunications. The ADA extends the coverage of Section 504 of the Rehabilitation Act of 1973, beyond just those programs receiving federal funding.

**THE FLORIDA EDUCATIONAL EQUITY ACT, Section 1000.05, F.S.:** Prohibits discrimination against students and employees in the state system of public education, on the basis of race, sex, national origin, marital status, and handicap.

Other laws and regulations with which we are in compliance are The Equal Pay Act of 1963; Executive Order No. 1246: Title VIII, Public Health Service Act; Age Discrimination in Employment Act of 1967; the Florida Human Rights Act.

INDIAN RIVER STATE COLLEGE  
NON-DISCRIMINATION/HARASSMENT POLICY STATEMENT

It is the policy of Indian River State College and its District Board of Trustees that each employee and student be allowed to work and attend this institution in an environment free from any form of improper discrimination. Harassment of any nature is prohibited whether it is on the basis of race, gender, color, national and ethnic origin, religion, age, disability, sexual orientation, veteran or marital status.

Preventing harassment is the responsibility of the entire College. Accordingly, Indian River State College encourages all employees and students who believe they are being subjected to harassment to follow the Administrative Procedure for harassment complaints. The College will take prompt disciplinary action against individuals on campus facilities who engage in actions that violate this policy.

This policy applies to all full time, part time, and temporary employees, including Administrators, Faculty, Staff, employment applicants, students and prospective students and non-employee volunteers who work subject to the control of a College employee. Harassment is a form of discrimination unbecoming of a College employee or student.

Questions or concerns regarding IRSC's Non-Discrimination/Harassment Policy may be directed to:

Equity Officer .....Adriene B. Jefferson  
Associate Dean of Minority Affairs & Equity  
Coordinator  
Indian River State College  
3209 Virginia Avenue  
Fort Pierce, FL 34981-5596  
[ajeffers@irsc.edu](mailto:ajeffers@irsc.edu)  
(772) 462-7606

Affirmative Action  
ADA-504 Compliance Officer .....Shelia M. Daniels  
Associate Dean of Human Resources  
Indian River State College  
3209 Virginia Avenue  
Fort Pierce, FL 34981-5596  
[sdaniels@irsc.edu](mailto:sdaniels@irsc.edu)  
(772) 462-7275

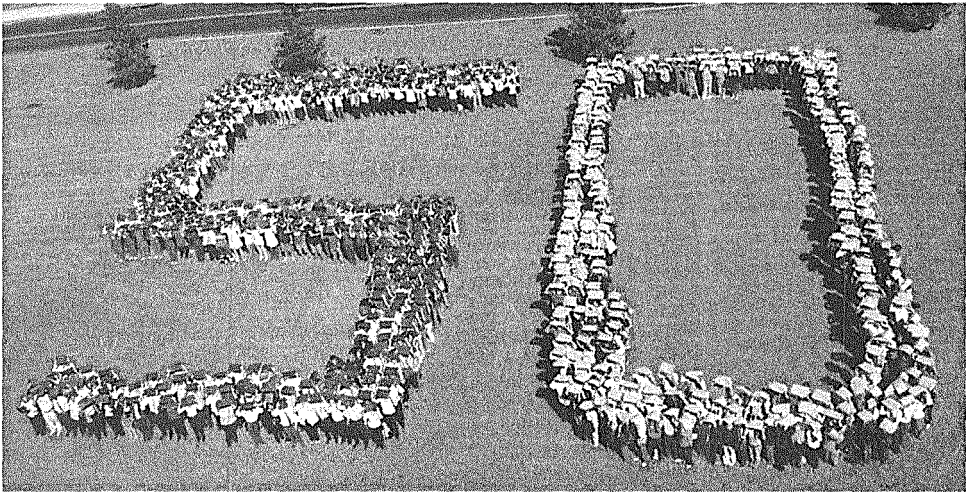
Division Vice Presidents .....Henri Sue Bynum, Ph.D.  
Christina T. Hart, Ph.D.  
Barry A. Keim  
Mary G. Locke, Ph.D.  
Alan P. Roberts, Ed.D.  
Frank L. Watkins

The College has a procedure to resolve complaints of discrimination. A copy of this procedure is available in the Office of Minority Affairs and the Office of Human Resources which is located at 3209 Virginia Avenue, Fort Pierce, Florida.

The provisions of this publication are not to be construed as a contract between the student and Indian River State College. The College reserves the right to change any provision or requirement when such action will serve the interests of the College or its students. The College further reserves the right to ask a student to withdraw when it considers such action to be in the best interest of the College.

Students are responsible for meeting in full the requirements for graduation set forth in the College catalog. The Educational Services Division assists in the planning of a program of study for each student but the final responsibility for meeting the requirements for graduation rests with the student. The catalog considered "in force" and binding on the student is (on the student's option):

1. The one under which he originally enrolled (if not more than four regular semesters prior to his graduation).
2. The current College catalog.



# INDIAN RIVER STATE COLLEGE

## *CELEBRATING 50 YEARS OF INNOVATION*

### INDIAN RIVER STATE COLLEGE

3209 Virginia Avenue • Fort Pierce, FL 34981-5596  
(772) 462-4772 • Fax (772) 462-4796

**Chastain Campus**

2400 S.E. Salerno Rd.  
Stuart, FL  
34997  
(772) 283-6550  
Fax (772) 419-5630

**Dixon Hendry Campus**

2229 N.W. 9th Ave.  
Okeechobee, FL  
34972  
(863) 824-6000  
Fax (863) 824-6019

**St. Lucie West Campus**

500 N.W. California Blvd.  
Port St. Lucie, FL  
34986  
(772) 879-4199  
Fax (772) 336-6235

**Mueller Campus**

6155 College Lane  
Vero Beach, FL  
32966  
(772) 569-0333  
Fax (772) 226-2520

**Indiantown Education Center**

15655 S.W. Osceola St.  
Indiantown, FL  
34956  
(772) 597-5130

**IRSC Blackburn Educational Building**

3002 Avenue D  
Fort Pierce, FL  
34947  
(772) 462-7100

**Treasure Coast Public Safety Training Complex**

4600 Kirby Loop Road  
Fort Pierce, FL  
34981  
(772) 462-7150

**Prima Vista Adult Education Center**

419 Irving Street  
Port St. Lucie, FL  
34983  
(772) 343-9553



## QUICK FACTS

Celebrating its 50th anniversary in 2010, Indian River State College opened its doors as Indian River Junior College in 1960, changed its name to Indian River Community College in 1970 and became Indian River State College on July 1, 2008.

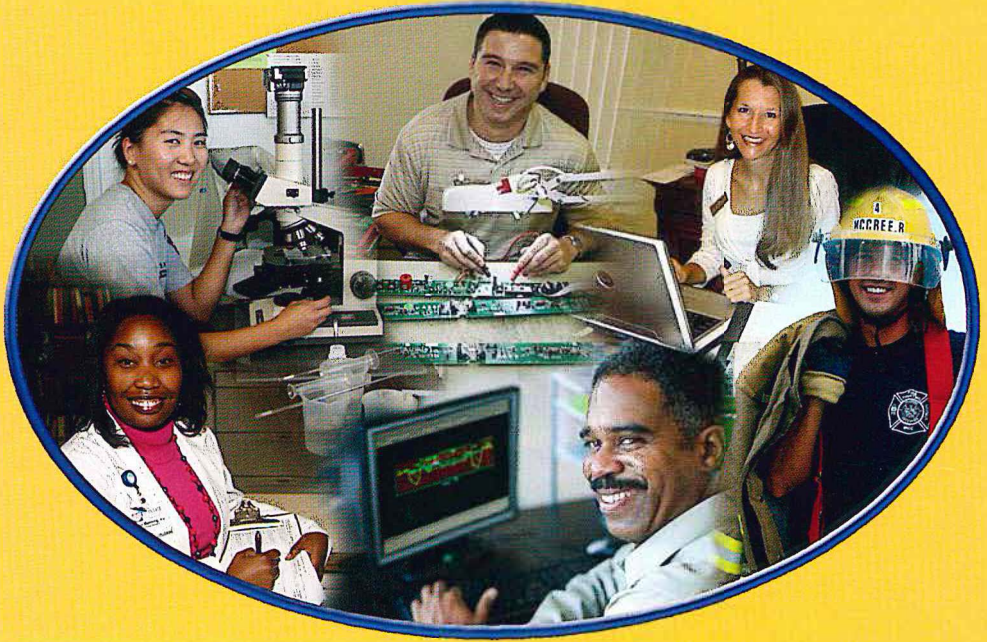
IRSC serves Florida's St. Lucie, Martin, Indian River and Okeechobee counties as the region's premier institution for higher education, emphasizing quality and accessibility at reasonable cost.

Serving over 33,000 students annually, IRSC offers Bachelor's Degree programs, Associate in Arts Degree programs for university transfer, Associate in Science Degree and Associate in Applied Science Degrees for career education, Technical Certificates, Adult Education and programs for professional development, personal and cultural enrichment.

- IRSC was recognized for three consecutive years as "Number One" in use of technology for teaching and learning by the American Association of Community Colleges and the Center for Digital Education.
- An innovative leader in science education, IRSC is a major partner in Enterprise Florida's Center for Biotechnology, with laboratory-trained students interning and employed at the Torrey Pines Institute for Molecular Studies, U.S. Horticultural Research Lab, Ocean Research and Conservation Organization (ORCA), Scripps, the Smithsonian Institution, Syngenta, and many other highly-respected scientific organizations and research facilities.
- The nation's newest, highly sophisticated public safety training facility is based at the IRSC Main Campus. The 50-acre, 8 building, Treasure Coast Public Safety Training Complex gained national attention as the radiation training site for Super Bowl Security, with trainers staffing the 2009 Presidential Inauguration. IRSC also serves as Florida's Banner Center for Homeland Security & Defense.
- Through the Energy Institute, IRSC offers training in alternative energies, including cooperative programs with Florida Power & Light Co. in nuclear power and radiation protection, as well as solar power programs for the green building industry. Named Florida's Banner Center for Energy, IRSC has also received a grant from the Nuclear Regulatory Commission to expand its nuclear Power Plant Institute and is part of the National Center for Optics and Photonics Education (OPTEC), a National Science Foundation initiative.
- The IRSC Main Campus is home to the region's first medical school, the Florida State University College of Medicine, Regional Campus.
- IRSC health science students maintain a long-standing record of top performance on state and national licensure exams and 100% job placement. Exemplary programs include nursing, radiography, respiratory therapy, dental hygiene and many more.
- Holding the longest unbroken athletic winning streak in the country, the Men's Swimming and Diving Team has racked up 36 NJCAA titles, with the Women's team holding 32 championship titles.
- The IRSC Math Team took home first place honors in the entire Southeast region and first place in Florida for the third year in a row on the American Mathematical Association of Two-Year Colleges national exam.
- The IRSC Foundation awarded over \$1.8 million in scholarships to more than 2,200 students in 2009/2010.



# *Creating the Future Today*



[www.irsc.edu](http://www.irsc.edu)