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Honors Institute • Undergraduate Research • Scholarship
Intellectual Inquiry • Comprehensive Education*

Catalog

2005 - 2006



Published by

Collin County Community College District

Public Relations and Publications Department
Courtyard Center
4800 Preston Park Boulevard
P.O. Box 869055
Plano, Texas 75086-9055

2005 - 2006 ■ No. 20

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2005-2006

catalog



Collin County Community College District (Collin) is an equal opportunity institution and provides educational and employment opportunities without discrimination on the basis of race, color, religion, sex, age, national origin, disability, or veteran status. In accordance with the Americans with Disabilities Act of 1990 and Section 504 of the Vocational Rehabilitation Act of 1973, Collin provides accommodations as required by law to afford equal educational opportunities to all people. An ADA compliance officer can be reached at 972.985.3781.

Upon request, the college catalog is available on computer disk for students with print-oriented disabilities. For more information contact ACCESS (Accommodations at Collin County for Equal Support Services) at 972.881.5898 (V/TTY). For persons with hearing or speech impairment, please use the Texas Relay Services when offices or departments on campus do not list a TTY number. The Texas Relay number is 800.735.2989 (TTY).

ACCREDITATION STATUS

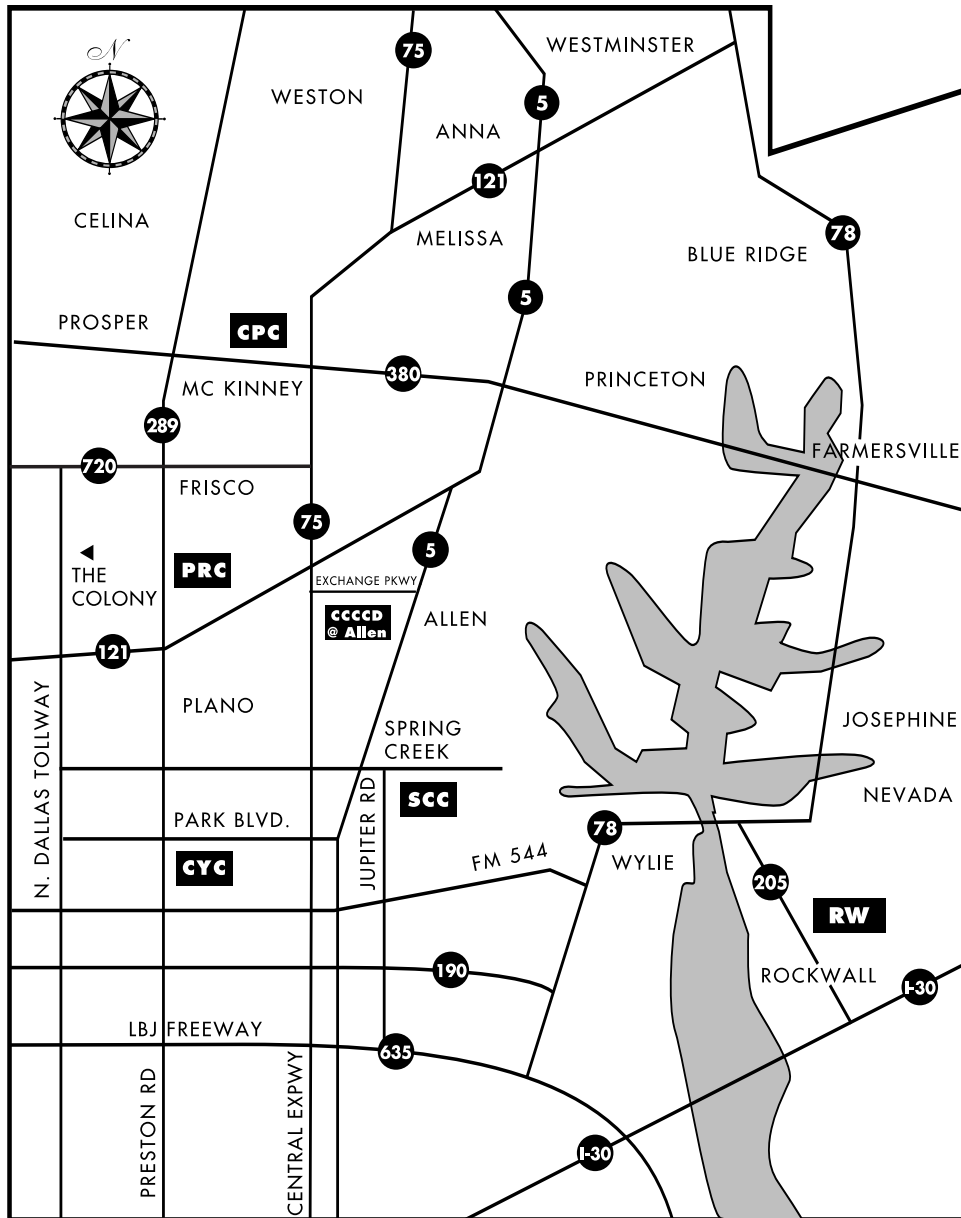
Collin is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia, 30033-4097, telephone: 404.679.4501) to award associate degrees and certificates.

ACCREDITING BODIES

American Dental Association, Board of Nurse Examiners for the State of Texas, Committee on Accreditation for Respiratory Care, Dietary Manager Association, National Accrediting Agency for Clinical Laboratory Sciences, National League for Nursing, Texas Commission on Fire Protection, Texas Commission of Law Enforcement Officers Standard and Education, Texas Department of Health, and Texas Real Estate Commission.

The programs, policies, statements, fees, and courses contained herein are subject to continual review and evaluation. Collin reserves the right to make changes or deletions at any time without notice. This publication is intended for information only and is not intended as a contract.

Collin County Community College District Map



CAMPUS LOCATIONS

Central Park Campus (CPC)

2200 West University Drive
 P.O. Box 8001
 McKinney, Texas 75070-8001
 972.548.6790

Courtyard Center for Professional and Economic Development (CYC)

4800 Preston Park Boulevard
 P.O. Box 869055
 Plano, Texas 75086-9055
 972.985.3790

Preston Ridge Campus (PRC)

9700 Wade Boulevard
 Frisco, Texas 75035
 972.377.1790

Spring Creek Campus (SCC)

2800 East Spring Creek Parkway
 Plano, Texas 75074
 972.881.5790

OTHER LOCATIONS

CCCCD@ALLEN

Allen High School
 300 Rivercrest Boulevard
 Allen, Texas 75002
 972.377.1060

Higher Education Center at Rockwall (RW)

1050 Williams Street
 Rockwall, Texas 75087
 972.772.5737

COLLIN INTERNET ADDRESS:

www.ccccd.edu

2005-2006 Academic Calendar

FALL 2005

Fall Classes Begin	August 29
Labor Day Holiday (Campuses Closed)	September 5
Fall Census Date	September 12
Fall Last Day to Withdraw	November 18
Thanksgiving Holiday (Campuses Closed)	November 23-27
Fall Final Exams	December 12-17
Winter Break (Campuses Closed)	December 22-January 1

WINTERMESTER 2006

Wintermester Classes Meet	December 19 - 21, 2005
Wintermester Census Date	December 20
Winter Break (Campuses Closed)	December 22-January 1
Wintermester Classes Resume	January 2
Wintermester Last Day to Withdraw	January 4
Wintermester Final Exams	January 10

SPRING 2006

MLK Holiday (Campuses Closed, except for community events at SCC)	January 16
Spring Classes Begin	January 17
Spring Census Date	January 30
Spring Break (No Classes)	March 13-16
Spring Break (Campuses Closed)	March 17-19
Spring Last Day to Withdraw	April 13
Spring Holiday (Campuses Closed)	April 14-16
Spring Final Exams	May 8-13
2005-2006 Commencement 7:00 p.m.	May 12

MAYMESTER 2006

Maymester Classes Begin	May 15
Maymester Census Date	May 16
Maymester Last Day to Withdraw	May 23
Memorial Day Holiday (Campuses Closed)	May 29
Maymester Final Exams	May 30

SUMMER I AND III 2006

Summer I and III Classes Begin	June 5
Summer I Census Date	June 8
Summer III Census Date	June 14
Summer I last Day to Withdraw	June 30
Independence Day Holiday (Campuses Closed)	July 4
Summer I Final Exams	July 6
Summer III Last Day to Withdraw	July 21
Summer III Final Exams	August 9-10

SUMMER II 2006

Summer II Classes Begin	July 10
Summer II Census Date	July 13
Summer II Last Day to Withdraw	August 4
Summer II Final Exams	August 10

Quick Reference

STUDENT SERVICES	CPC	CYC	PRC	SCC
Academic Probation or Suspension	972.548.6778 A108		972.377.1779 F135	972.881.5773 G103
Academic Advising	972.548.6782 A108		972.377.1779 F135	972.881.5782 G103
ACCESS Office				972.881.5898 G200
Admissions and Records Office	972.548.6710 A111	972.985.3721 B101	972.377.1710 F135	972.881.5710 G103
Bookstore	972.548.6680 A104	972.985.3710 B107	972.377.1680 F159	972.881.5680 G124
Career Services & Cooperative Work Experience	972.548.6747 A108		972.377.1781 or 1735 F135	972.881.5781 or 5735 G103
Child Development Lab School	972.548.6852 E102/104			972.881.5945 B175
Computer Lab	972.548.6877 C113		972.377.1706 H125	972.881.5877 J119
Counseling Services (Personal)	972.548.6615 A222		972.377.1671 F147E	972.881.5126 C225
Financial Aid/Veterans Affairs	972.548.6760 A111		972.377.1760 F141	972.881.5760 G103
Fitness Center	972.548.6891 E121		972.377.1758 Alumni Hall	972.881.5848 A100
Food Service	First Floor	A212	Alumni Hall	972.881.5949 F108
Honors Institute			972.758.3812	972.758.3812
Information Center	972.548.6790 First Floor Atrium	972.985.3790 B101	972.377.1790 First Floor Atrium	972.881.5790 First Floor Atrium
International Students Office				972.516.5012 G103
Learning Resources Center	972.548.6860 B105		972.377.1560 F128	972.881.5860 D100
Math Lab	972.548.6896 B336		972.377.1639 L212	972.881.5921 J228
Recruitment and Programs for New Students	972.548.6777 B333		972.377.1750 F133	972.516.5086 G103
Service-Learning Office	972.548.6739 B203		972.377.1585 F210	972.881.5800 B240
Student Development Center	972.548.6770 A108		972.377.1770 F135	972.881.5770 G103
Student Life	972.548.6788 D109		972.377.1788 A185	972.881.5788 F129
Student Lounge	972.548.6788 First Floor D		972.377.1788 Alumni Hall-Spokes	

STUDENT SERVICES-continued	CPC	CYC	PRC	SCC
Tech Prep - Global EDGE	972.548.6723 A114			
Testing Center	972.548.6849 B342		972.377.1523 F209	972.881.5922 J232
Transfer Programs Office		972.985.3734 A312		
Tutoring				972.881.5128 G141
Wellness Center				972.881.5777 A217
Writing Center	972.548.6857 B108		972.377.1576 L214	972.881.5843 D224

NOTE: Select Student Services are available at CCCCD@ALLEN

ADMINISTRATIVE DEPARTMENTS	CPC	CYC	PRC	SCC
ADA/Title IX/504 Coordinator		972.985.3781 B303		
Associate Faculty Office	972.548.6830 B305		972.377.1585, 1705 or 1554 F210, H119, or U111	972.881.5090 or 5759 B103 or K239
Cashier's Office	972.548.6616 A111E	972.985.3724 B101	972.377.1638 F140	972.881.5634 G115
The College Foundation (Scholarships)	972.548.6611 B216			
Continuing Education and Workforce Development		972.985.3750 A364		
Dean of Students Office	972.548.6771 A108		972.377.1793 F135	972.881.5604 G227
Executive Vice President		972.758.3892 B433		
Instruction Office	972.548.6830 B305			
Plant Operations	972.548.6690 E126	972.985.3777 Basement	972.377.1690 Plant Building	972.881.5690 K016
President's Office		972.758.3800 B431		
Provost's Office	972.548.6800 A302		972.377.1550 F146	972.881.5802 G227
Public Relations		972.758.3895 B329		
TSI Information	972.548.6710 A111	972.985.3722 B101	972.377.1744 F135	972.881.5902 G103
Vice President of Administration		972.758.3831 A420		
Vice President of Academic Affairs		972.758.3805 B431		
Vice President of Student Development	972.548.6770 A108		972.377.1770 F135	972.881.5770 G227
Weekend College				972.881.5801 G231

OTHER COLLEGE SITES				
CCCCD@ALLEN	972.377.1060 Q100			
Higher Education Center at Rockwall	972.772.5737			

Academic Divisions

BUSINESS AND COMPUTER SCIENCE

Dean: Mr. Bill Blitt

CPC-B305.....	972.548.6830
PRC-H246.....	972.377.1731
SCC-J114.....	972.881.5846

Academic Advisor:

Al Gober	PRC-F134	972.377.1780
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COMMUNICATIONS AND HUMANITIES

Interim Dean: Dr. Gerald H. Perkus (SCC)

Associate Dean: Ms. Shirley McBride (SCC)

CPC-B305.....	972.548.6830
PRC-L238.....	972.377.1030
SCC-B189.....	972.881.5810

Academic Advisor:

Amy Throop	PRC-F132	972.377.1513
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DEVELOPMENTAL EDUCATION

Dean: Ms. Juanita Austin (SCC)

CPC-B336.....	972.548.6894
PRC-L238.....	972.377.1030
SCC-K102.....	972.881.5720

Academic Advisors:

Asiya Alizai	SCC-G149	972.881.5165
Tatiana Shehadeh	SCC-G150	972.881.5093
Rebecca Crowell	SCC-G152	972.881.5011

EDUCATION/CENTER FOR TEACHING, LEARNING, AND PROFESSIONAL DEVELOPMENT

Director: Ms. Brenda Kihl

CCCCD@Allen.....	972.377.1061
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Academic Advisors:

Carie Andrews	SCC G145	972.881.5773
Jyo Pai	CCCCD@Allen	972.377.1062

CAMPUSES

CCCCD@Allen - Allen High School	PRC - Preston Ridge Campus SCC - Spring Creek Campus
CPC - Central Park Campus	N/A - Not applicable

ENGINEERING AND EMERGING TECHNOLOGIES

Dean: Ms. Ann Beheler (PRC)

Associate Dean: Mr. Wayne Jones (PRC)

CPC-B305.....	972.548.6830
PRC-H210.....	972.377.1715

Academic Advisor:

Terrence Brennan	PRC-F131	972.377.1771
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FINE ARTS

Dean: Dr. Jeff Walter (SCC)

CPC-B305.....	972.548.6830
PRC-L238.....	972.377.1050
SCC-A177.....	972.881.5107

Academic Advisor:

Todd Fields	SCC-G105	972.881.5903
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MATHEMATICS AND NATURAL SCIENCES

Dean: Dr. Cameron Neal (SCC)

Associate Dean/Athletic Director: Ms. Susan Evans (SCC)

CPC-B305.....	972.548.6830	
PRC-L238.....	972.377.1050	
SCC-F135.....	972.881.5880	
SCC-A218	Physical Education	972.881.5925
SCC-A218	Athletics	972.881.5888

Academic Advisors:

LeCrecia Robinson	SCC-G146	972.881.5854
Tom Bailey	SCC-G148	972.578.5563

SOCIAL SCIENCES, HEALTH AND PUBLIC SERVICES

Dean: Mr. Gary Hodge (SCC)

CPC-E302.....	972.548.6679
PRC-L238.....	972.377.1050
SCC-B240.....	972.881.5800

Academic Advisors:

Carie Andrews	SCC-G145	972.881.5773
Lynne Meyer	CPC-A108B	972.548.6778
Tori Hoffman	CPC-A108C	972.548.6779

Quick Reference for Collin Academic and Workforce/Technical Degree Programs

Academic Associate Degree Programs	Associate of Arts (AA)	Associate of Arts in Teaching* (AAT)	Associate of Science (AS)	Field of Study
Accounting	■			
American Sign Language (Deaf Education)	■			
Anthropology	■			
Art	■			
Business	■			■
Communication	■			■
Criminal Justice	■			■
Dance	■			
Economics	■			
English	■			
French	■			
Geography	■			
German	■			
Government	■			
History	■			
Music	■			■
Nursing	■			■
Paralegal/Legal Assistant	■			
Philosophy	■			
Photography	■			
Psychology	■			
Sociology	■			
Spanish	■			
Speech Communication	■			
Theatre	■			
<i>*(Leading to Initial Texas Teacher Certification)</i>				
Early Childhood (EC)-grade 4, grades 4-8, EC-grade 12		■		
Grades 8-12, Other EC-12		■		
EC-4 Early Childhood Degree Specialization		■		
Biology			■	
Chemistry			■	
Computer Science			■	■
Engineering			■	■
Engineering Technology			■	■
Environmental Science			■	
Geology			■	
Mathematics			■	
Physical Education			■	
Physics			■	

Workforce and Technical Degree Programs

	Associate of Applied Science (AAS)	AAS Specialization	Certificate	Certificate Specialization	Enhanced Skill Certificate	Marketable Skills Achievement Award
Applied Graphic Design Technology	■		■			
3-D Entertainment Animation/Interactive Media		■	■			
Commercial Photography		■		■		
Digital Video/Web Design	■		■			
Gaming Graphics and Animation			■			
Biotechnology	■		■			
Child Development	■		■			
Child Development Administration of Programs for Children						■
Child Development Associate			■			
Child Development Associate Training						■
Early Childhood Administrator				■		
Early Childhood Special Educator				■		
Infant and Toddler Educator				■		
School-Age Educator				■		
Teacher Assistant				■		
Computer-Aided Drafting and Design	■		■		■	■
AutoCAD				■		■
Integrated Circuit Design and Layout		■	■			
Pro/Engineer						■
Computer Information Systems	■					
Applications Programming			■			
Computer Applications		■	■			■
Database Applications						■
Computer Networking Technology	■					
Advanced Cisco Systems Networking (CCNP)			■			
Cisco Systems Networking		■				
Cisco Systems Networking (CCNA)						■
Computer Networking Technology Advanced Software (MCSE)				■		
Computer Networking Technology Software (MCSA)			■			
Information Systems Cybersecurity		■		■		
Computer Programming						
C++ Specialization				■		
Database Programming			■			
Java		■		■		
Software Development	■		■			
Visual Basic				■		
Convergence Technology	■		■			
Dental Hygienist	■					
E-Business Media	■		■			
E-Commerce			■			
Interactive Web Programming						■
Multimedia Graphics Applications						■
MX Studio						■
Web Developer		■		■		
Electronic Design	■					
Electronic Design Automation			■			

Workforce and Technical Degree Programs

	Associate of Applied Science (AAS)	AAS Specialization	Certificate	Certificate Specialization	Enhanced Skill Certificate	Marketable Skills Achievement Award
Electronic Engineering Technology	■		■			
Electro-Optical		■		■		
Electronic Technology	■		■			
Biomedical Instrumentation Electronic		■		■		
Computer Maintenance Electronic		■		■		
Emergency Medical Services Professions	■		■			
Fire Science	■					
Basic Firefighter Certification		■	■			
Fire Officer Certification		■	■			
Hospitality and Food Service Management						
Catering Management				■		
Culinary Arts		■		■		
Dietary Manager				■		
Hotel Management				■		
Hotel/Restaurant Management	■		■			
Meetings and Event Management				■		
Pastry Arts				■		
Information Systems Cybersecurity	■		■			
Interior and Architectural Design	■		■			■
Interpreter Preparation Program/Deaf	■					
Interpreter Trainee			■			
Management Development	■		■			
Criminal Justice		■		■		
Human Resources Management				■		
Mediation				■		
Project Management			■			
Quality Management				■		
Marketing	■		■			
International Business			■			
Marketing/Business Management		■				
Small Business Management				■		■
Music, Commercial	■					
Audio Engineering			■			
Nursing	■					
Office Systems Technology	■		■			■
Legal Office Support				■		
Medical Coding and Billing				■		
Medical Office Support				■		
Medical Transcription				■		
Paralegal/Legal Assistant	■					
Paralegal General			■			
Real Estate	■					
Real Estate Brokers			■			
Real Estate General			■			
Respiratory Care	■					
Semiconductor Manufacturing Technology	■					
Semiconductor Manufacturing Operator			■			

COLLIN COUNTY COMMUNITY COLLEGE DISTRICT:

A Smart Move

Since offering its first classes at area high schools in 1985, Collin County Community College District (Collin) has expanded to serve more than 40,000 credit and continuing education students each year. The college offers more than 100 degrees and certificates in a wide range of disciplines.

AWARD-WINNING PROGRAMS AND FACULTY

Among Collin's nationally recognized programs are Learning Communities and Service-Learning, which earned the National Bellwether Award for outstanding and innovative practices presented by the National Council of Instructions Administrators and the Institute of Higher Education. The Dance Repertory has consistently won Gala Awards and is the only community college program in the nation to win three times in four years. And Collin's theatre program is consistently ranked among the top programs in the nation at the American College Theatre Festival.

Collin's faculty include a U.S. Professor of the Year, an award presented by the Carnegie Foundation for the Advancement of Teaching and the Council for Advancement and Support of Education (CASE), and four Minnie Stevens Piper Professors, one of Texas' highest honors bestowed upon college and university professors. Also among the faculty is an honoree of the Teaching Excellence Award, presented by the Texas Mathematical Association of Two Year Colleges.

Moreover, Collin offers students a comprehensive college experience through a wide variety of theatre, music and dance performances, art exhibits, athletic events, and a guest lecture series bringing renowned scholars to Collin campuses, including Nobel Laureate Dr. Norman Borlaug, goodwill ambassador Harriet Mayor Fulbright and former CIA Director Dr. Robert Gates. In addition, Peter Jennings of ABC's World News Tonight moderated a town hall meeting on campus between Collin students and a panel of local journalists as part of the program, "Media Matters with Peter Jennings."

Another honor came when the college was named one of the "Top 10 Digital Community Colleges" by the Center for Digital Education and the American Association of Community Colleges. In addition, the college's Continuing Education Division was recognized by the Learning Resources Network (LERN), an international association in lifelong learning programming, for excellence in the Best Management Practice category.

INNOVATIVE OPPORTUNITIES

Collin was the first Texas community college to offer dual admissions, allowing students to earn credit at Collin and a major university simultaneously. Through this program, students can take their freshman and sophomore courses at Collin and upper division courses at a participating university. To date, the University of North Texas (UNT), University of Texas at Dallas (UTD), Southern Methodist University (SMU), Texas Woman's University (TWU) and Texas A&M University – Commerce hold dual admissions agreements with Collin. In addition, UNT and A&M – Commerce provide upper division courses on Collin campuses.

In response to the critical need for classroom teachers, Collin became the first community college in the nation to offer teacher certification. A unique agreement with Texas A&M University-Commerce awards nine semester hours of graduate credit to students completing Collin's Teacher Certification Program. Texas A&M University – Commerce provides graduate-level classes at Collin's Allen site. In 2005, Collin launched a new degree program, the associate of arts in teaching, to further assist with the teaching shortage.

In addition to core curriculum, Collin offers extensive training in the health professions and public service fields, including nursing, respiratory therapy, dental hygiene, emergency medical services, fire science, and law enforcement. Certificates can be earned in a wide range of high-tech fields as well. Augmenting the computer networking technology program, Collin is one of six national Cisco Certified Training Centers.

LOCATIONS

Collin offers credit and continuing education courses on campus, at area businesses, or via the Internet. In addition to providing core curriculum courses, each location offers a wide selection of electives and specialty classes.

CENTRAL PARK CAMPUS

Collin opened its first campus, the Central Park Campus (CPC), in McKinney in January 1986. Located on 115 acres just west of I-75 on Highway 380, the campus includes a facility that is the center for the college's health and public service programs. Housed at Central Park are the James and Pat Aston Center for Health Studies, a dental clinic, a fire academy building, fire rescue complex, hospital lab, law enforcement academy, and Pike Hall.

SPRING CREEK CAMPUS

The Spring Creek Campus (SCC) opened in fall 1988 and is located at the intersection of Jupiter Road and Spring Creek Parkway in Plano. The facility houses the 356-seat John Anthony Theatre, THE ARTS gallery, the Honors Institute, and the Brinker Tennis Stadium. The Spring Creek Campus was recently expanded to include a 7,475 square-foot conference center, a state-of-the-art dance studio, more general-purpose classrooms, new faculty offices, science labs, and space for high-tech training. Spring Creek's many core offerings include classes in fine arts, communications and humanities, and mathematics and natural sciences.

PRESTON RIDGE CAMPUS

In July 1995, Collin opened its third campus, the Preston Ridge Campus (PRC), located north of Highway 121 and east of SH 289 (Preston Road) in Frisco. Preston Ridge Campus is comprised of Heritage Hall, Founders Hall, Alumni Hall, University Hall, and the Library building. It also houses the college's high-tech and business programs including electronic engineering technology, semiconductor and manufacturing technology, computer network technology, computer-aided drafting and design, and telecommunications technology. The campus is home to the first academic "Convergence Lab" in the state of Texas and is also the site for the national Cisco certificate Training Center, which serves the eight-state Southwest region. Recently, the college added 103,000 square feet of space, including a magnificent 50,000 square-foot library, art studios, music labs, a large lecture hall, a meeting room, science and technology classrooms, and faculty offices.

COURTYARD CENTER

The Courtyard Center for Professional and Economic Development (CYC) opened in 1993. Located on Preston Park Boulevard in Plano near the intersection of Park and Preston, the CYC complex houses the Continuing Education and Workforce Development Division, the Small Business Development Center and the Business Solutions Group, which provides customized training to area businesses. Courses offered at CYC include career development, real estate, contract and corporate training, Seniors Active in Learning

(SAIL), and the Women in Motion Entrepreneurship Program (formally Project NEW).

CCCCD@ALLEN

CCCCD@Allen, located within Allen High School, opened in the fall of 1999 and offers credit and continuing education classes. The facility is the home of Collin's culinary arts program and the Teacher Certification Program. The Teacher Certification Program is geared to individuals who hold a bachelor's degree with work experience and who are interested in a non-traditional route to the teaching profession.

HIGHER EDUCATION CENTER AT ROCKWALL

Collin offers courses to the community in Rockwall at the Rockwall Independent School District's Administration/Education Center, located at 1050 Williams Street. Community members may participate in the dual admissions program with Texas A&M University – Commerce or enroll in day or evening courses designed to transfer to other universities.

MISSION STATEMENT

Collin County Community College District is a student and community-centered institution committed to developing skills, strengthening character, and challenging the intellect.

CORE VALUES

We have a passion for:

- Learning
- Service and Involvement
- Creativity and Innovation
- Academic Excellence
- Dignity and Respect
- Integrity

PURPOSE STATEMENT

Through its campuses, centers and programs, Collin fulfills its statutory charge to provide:

- Academic courses in the arts and sciences to transfer to senior institutions.
- Technical programs, leading to associate degrees or certifications, designed to develop marketable skills, and promote economic development.
- Continuing, adult education programs for academic, professional, occupational, and cultural enhancement.
- Developmental education and literacy programs designed to improve the basic skills of students.
- A program of student support services, including counseling and learning resources designed to assist individuals in achieving their educational and career goals.
- Workforce, economic, and community development activities designed to meet local and statewide needs.
- Other purposes as may be directed by the Collin Board of Trustees and/or the laws of the state of Texas.

CCCCD Board of Trustees



Stacy Anne Arias
Plano

Profession:

Full-Time Student

Other Involvements:

Court Appointed Special Advocates (CASA) of Collin County Council on Family Violence; Texas Council on Family Violence; Coalition of Victim Advocates; Plano/Frisco YMCA

Quote:

“Having a successful district requires wise choices. Through connection, creativity, and passion for higher education, these choices will propel this institution beyond our expectations. It is an honor to serve on the Collin board.”



Cynthia (Cindy) Bauge
Plano

Profession:

Vice President of Grant Sales, Inc. in Plano

Other Involvements:

Member of the College Foundation, Inc. Board and Executive Committee, Plano Chamber of Commerce (Athena Award Winner and Business Woman of the Year), Member of the Plano Tax Abatement Committee, Member of the Plano Tax Increment Financing Committee, Plano Economic Development Board and Executive Committee, The College Board Secretary, The College Board Facilities and Construction Committee Chairman

Quote:

“As we continue to enhance the lifelong learning experience for our students, we continue to strengthen our partnerships with our communities, business and industry, and other educational institutions. We strive to excel in all areas, constantly improving and making changes to meet the needs of the Collin County community.”



Dr. E.T. Boon
Allen

Profession:

Retired Dentist

Other Involvements:

Past President Allen ISD School Board; Past Board Member Allen Chamber of Commerce; Past President Allen Economic Development Corporation; Fellow, American Academy of General Dentistry; Master Academy of General Dentistry; Texas Industrial Development Council – Texas Volunteer Industrial Developer of the Year Award; Namesake of E.T. Boon Elementary School; Past President Allen Rotary Club; Charter Member and Past President Allen Jaycees; Past V.P. Texas Jaycees; Charter Member Allen Rotary Club

Quote:

“My duty is to assist in providing the very best education possible for our students at affordable tuition. I also have a duty to make certain that our tax payers’ money is spent in a prudent manner.”



Dr. J. Robert Collins
Farmersville
Founding Board Member

Profession:

Distinguished Lecturer in Entrepreneurship in the College of Business and Technology at Texas A&M University – Commerce; Former Corporate Vice President and Corporate Officer, E-Systems, Inc.

Other Involvements:

Engineering Advisory Council for Texas A&M University; Farmersville Economic Development Corporation Board; Advisory Council for the College of Business and Technology, Texas A&M University – Commerce; Past Board Chair, Greenville Christian School; Past City Council and Mayor Pro-tem, City of Plano

Quote:

“The college’s credentials as a top-notch academic institution continue to grow along with our enrollment. We are making a profound educational impact in Collin County across a spectrum ranging from University preparation to healthcare and technical training to customized training programs to support the County’s economic growth.”



**Brenda Willard Goodell
Celina**

Profession:

Former Chief Financial Officer for a major agricultural company

Other Involvements:

Board Member of C.A.R.E., a local scholarship foundation; Vice-Chairman of the Board of Directors of Celina Christian Academy; Chairman of the Building Committee and Sunday School Director First Baptist Church of Celina; Former Member of the Southwest Credit Association Board of Directors; Former Secretary of the Celina ISD Board of Trustees; Former Member Appraisal Review Board for Collin County Central Appraisal District

Quote:

“It is a privilege to serve the citizens of Collin County on the College Board of Trustees. I look forward to working with the administration, faculty and other board members to ensure that Collin remains the best community college in the nation.”



**Dr. David Hammel
Parker**

Profession:

Retired, 31 years senior management with major U.S. corporations

Other Involvements:

Member of the College Foundation Board, Collin County Youth Charity Advisory Board, Metroplex Mayors Association, Plano Rotary, Former member U. S. Accreditation Board (universities), Governor’s Task Force to Develop Texas Energy Policy, Collin County Planning Board, Mayor and City Council Member for the City of Parker.

Quote:

“Collin is one of the premier community college districts in the U.S. It must continue to provide a high quality, affordable educational experience to all who seek higher education.”



**Mac Hendricks
McKinney**

Profession:

Real Estate Developer

Other Involvements:

Former three-term member of the McKinney Economic Development Corporation Board; Member of the College Foundation, Inc. Board of Trustees; Member of the College Campus Facilities and Construction Committee; Board Member, Hope’s Door

Quote:

“In our twentieth year of service, Collin County has every reason to be extremely proud of the college. With community support and great leadership, the college has risen to the top of its class in the state as well as the nation, and its future has never looked brighter.”



**Sam Roach
Frisco
Chairman,
The College Board
of Trustees**

Profession:

Owner – Sam Roach Business Center and Sam Roach Real Estate

Other Involvements:

Member of the College Foundation, Inc. Board; Member of the Frisco Chamber of Commerce

Quote:

“I am proud to be a part of our college because it continues to expand services and programs to meet the needs of our ever-growing student population. The college is the best investment that the citizens of Collin County could have ever made, since it provides the educational foundation for our future leaders.”



**Tino Trujillo
Plano
Founding Board Member**

Profession:

Owner—Tino’s Restaurant and Tino’s Too Restaurant in Plano

Other Involvements:

Member of the Plano Rotary Club; Director of the Craig Gilbert Foundation; Director of the Hendricks Academy of Honor Foundation (both scholarship foundations)

Quote:

“I think the main thing is to make college affordable for students who otherwise would not be able to go to a four-year college. I am very proud to be a trustee since the beginning of the college, because we provide education for financially challenged students in Collin County.”

ADMISSIONS and *registration*

ADMISSIONS POLICIES

Collin operates under an “open door” policy. Students who are 18 years of age or older with a high school diploma or equivalent are eligible for admission. Other students may be admitted under the special admission requirements that follow.

The college reserves the right to guide the placement of students through assessment, which may include interviews and a review of past academic achievement.

Registration options are enhanced and delays may be avoided by completing all admission requirements in advance of registration.

In all admissions policies and practices, Collin does not discriminate on the basis of race, color, religion, sex, national origin, age, disability, or veteran status in accordance with federal law.

NEW STUDENTS

New students should submit the following to the Admissions Office:

1. An application for admission. This application may be submitted prior to, or at the time of, registration.
2. An official transcript from the most recent high school (or copy of GED scores) or college attended, and all new students must take TSI before enrolling in a Texas public institution of higher education. Students applying for and/or receiving financial aid or veterans benefits are required to submit a complete record of all academic work including high school transcripts. Degree-seeking students will be required to submit all official transcripts.

Admission to the college does not guarantee admission to a particular program of study. Programs and certificates in dental hygiene, firefighter certification, nursing, and respiratory care have specific program admissions criteria and require approval to enroll. Refer to the programs in this catalog, and/or contact the division office for information on program requirements.

TUITION REBATES FOR CERTAIN UNDERGRADUATES

First-time students entering Texas public institutions of higher education may be eligible for a \$1,000 tuition rebate after earning a

baccalaureate degree from a general academic teaching institution. To be eligible for the rebate, a student must have attempted no more than three hours in excess of the minimum number of semester credit hours required to complete the degree in the catalog under which they graduated. (Hours attempted – The number of hours in which a student is enrolled at a university, including college-level and developmental coursework, transfer credits, course credits earned by examination, Tech Prep, and courses dropped after the official census date.) Community college students hoping to qualify for the rebate should check with academic advising at the university where they plan to transfer to be sure the courses they are taking will apply to the university degree program they are pursuing.

RETURNING STUDENTS

Former Collin students who have not been enrolled at Collin during the preceding two regular (16-week) semesters will need to reapply for admission. An application for readmission and an official transcript from the last college or university attended since their last enrollment at Collin and documentation of TSI status are required. For more information on residency, see page 17.

STUDENTS WITHOUT DIPLOMA OR GED

Students under 18 without a high school diploma or equivalent will be required to:

1. Complete Collin assessments in reading, writing, and mathematics (if necessary, based on TSI status and scores),
2. Provide documentation that he/she is no longer enrolled in a high school program,
3. Submit an official transcript from the last high school attended,
4. Submit TSI scores or provide SAT, ACT, or TAKS scores showing exemptions or take the alternative test (see TSI section for details),
5. Provide written parental/guardian permission for students under 18 years of age, and
6. Contact an academic advisor.

Anyone over 18 years of age admitted without a GED or high school diploma will be strongly encouraged to complete the GED during the first semester of his/her enrollment at Collin.

GED CLASSES

All libraries in Collin County offer video catalogs through which citizens may secure free lessons and practice tests to help them pass the GED (General Education Diploma) test.

Practical Parent Education offers Family Literacy programs where children and parents may receive instruction in reading, writing, mathematics, and parenting skills.

More information about GED testing is available by contacting local high schools and libraries.

TRANSFERRING TO COLLIN

Transfer students who are in good standing academically and otherwise at the last institution of higher education they attended are eligible for admission to Collin. An official college transcript from the college most recently attended and TSI status documentation are required.

Students who transfer to Collin from other institutions of higher education may be awarded credit according to the conditions that follow.

1. Credit must have been earned at a regionally accredited institution of higher education. Foreign transcripts will not be evaluated.
2. An official transcript from all institutions of higher education attended by the student must be on file at Collin.
3. Official course descriptions from the catalog under which the student attended may be required for evaluation.
4. Credit for courses equivalent to those listed in the Collin Catalog will be accepted if the courses are required on the student's degree plan for graduation. Other credits may be accepted in lieu of elective courses depending on the student's program of study.
5. Only the grade and credits earned in the most recent repeated course will be used in computing the grade point average and applied toward degree or program requirements.
6. Grades of "D" are accepted from other institutions; however, a cumulative GPA of 2.0 is required for graduation. Grades of "F" and "I" will not transfer.
7. Waivers for physical education requirements may be granted for medical reasons. A written statement from a physician and one additional hour of electives are required. Credit for PHED courses is awarded for military training upon receipt of a student's DD214 (Honorable Discharge).
8. While there is no limit on the number of hours that can be transferred into Collin from other institutions, there is an 18 credit hour residency requirement to earn an associate degree from Collin. Students obtaining certificates containing 18 hours or less must complete all coursework in residence at Collin. Petitions to transfer credits into certificate programs containing 18 hours or less may be made to the division dean through the Degree Plan Coordinator.

9. Time limits and minimum grade requirements may be imposed for transfer work into select programs. Contact the division chair or division dean for details.

10. Collin does not evaluate transcripts or award transfer credit earned at foreign institutions; however, students may be eligible for credit through examination at the college.

Collin Degree Plan Coordinators conduct official transcript evaluations. Students must be currently admitted to Collin to request a degree plan.

HOME-SCHOOLED SPECIAL ADMISSIONS

Home-schooled students interested in applying to Collin who are under the age of 18 should:

1. Submit TSI scores, provide official SAT and/or ACT scores which show TSI exemption, or take the alternative TSI test (see TSI section for details),
2. Complete Collin assessments if required,
3. Submit an official transcript or notarized academic record from the current high school attended (including home school programs),
4. Provide written parental/guardian permission, and
5. Contact an academic advisor.

Course selection and load cannot exceed two college credit courses per semester. Admission and continued enrollment are provisional.

HIGH SCHOOL SPECIAL ADMISSIONS

High school students who have completed their sophomore year and are interested in concurrent admission to Collin should:

1. Contact their high school counselor's office to obtain a dual credit/concurrent enrollment permission form with appropriate signatures,
2. Submit TSI scores, provide official SAT, ACT, or TAKS scores showing exemptions, or take the TSI test (see TSI section for details),
3. Take required Collin institutional assessments (if necessary, based on TSI status and scores, and course selection),
4. Provide an official high school transcript, and
5. Contact an academic advisor.

Instructor approval may be required. To continue in the special admissions program, a grade of "C" must be maintained. Students will be enrolled provisionally on a semester-by-semester basis. Credit will be awarded according to state, local, and institutional policies in effect at the time of enrollment. Course selection may be limited. Juniors may take one college course per semester and seniors may take two courses per semester. However, both juniors and seniors are limited to one course per five-week summer session.

TECH PREP

College Tech Prep enables students to take Collin courses while in high school. Students who elected to take a college Tech Prep pathway

in high school will be eligible to receive college credit for those courses, if the criteria below are met. The Global EDGE Tech Prep Consortium is part of a national network of business and educational partnerships that develop these pathways from high school to college via Tech Prep programs. College Tech Prep is a multi-year planned sequence of study for a technical field that begins in high school and extends through one or two years at Collin. Current college Tech Prep programs at Collin include: Child Development, Computer-Aided Drafting and Design, Computer Information Systems, Computer Networking Technology, Computer Programming, Convergence Technology, Criminal Justice, E-Business Media, Electronic Design, Electronic Engineering Technology, Electronic Technology, Hospitality and Food Service Management, Interior and Architectural Design, Marketing, and Office Systems Technology.

Criteria for Eligibility

The following criteria are required in order to be eligible for college credit:

- Complete the high school college Tech Prep class with a grade of B or better
- Receive an 80 or better on the end-of-course exam in high school (*applies only to Criminal Justice or Child Development Tech Prep course-takers*)
- Enroll at Collin in an Associate of Applied Science degree plan
- Declare a technical degree major from among the workforce education programs that includes the Tech Prep courses taken in high school
- Successfully complete 6 non-developmental course credit hours at Collin within 24 months of high school graduation
- Students who participated in concurrent Collin enrollment need to complete 3 credit hours
- Bring the high school transcript to the Admissions and Records Office at Collin and complete a Petition for Tech Prep Credit within 24 months of high school graduation.
- Collin does not participate in the Statewide Articulation Program.

For more information, contact the Global EDGE office at 972.548.6723 or visit the Global EDGE Tech Prep Consortium website at <http://ftp.ccccd.edu/globaledge>.

INTERNATIONAL STUDENTS

Students on temporary visas or holding permanent residence cards may be eligible for admission. To verify residency status, students are required to present their visa or permanent residence card with their application.

The following deadlines are required for students residing outside of the United States seeking the F-1 student visa:

- Fall semester – June 1
- Spring semester – November 1
- Summer semesters – April 1

International Student Admissions

(F-1 Visa)

All international students must submit the following to the International Students Office (ISO) at SCC in room G103.

1. An application for admission.
2. An official TOEFL score of 525 or the computerized TOEFL score of 197 or above. Collin's institutional code is 6805. The institutional TOEFL score of 525 from the University of Texas at Arlington, University of Dallas, or University of Phoenix will be accepted in lieu of the official TOEFL score report. Students who can document graduation from the Intensive English Language Institute of the University of North Texas will be exempt from the TOEFL requirement.
3. A notarized Affidavit of Support form dated within six months of the beginning of the semester and the supporting evidence statement.
4. An official transcript (mark sheets, school records) from the last school attended.
5. Copy of the passport page showing official name, date of birth, and citizenship.

Upon arrival at Collin, all original immigration documents including a valid visa (I-94 arrival/departure record), an unexpired passport, copy of the I-20, and the original Affidavit of Support will be copied and kept on file with ISO.

Texas Success Initiative (TSI) assessment to be taken upon arrival at Collin.

Foreign transcripts will not be evaluated.

I-20's will not be issued for students seeking entrance into the United States on a permanent basis.

Transfer International Students Within The United States (F-1 Visa)

In addition to the above requirements the following items must also be submitted:

1. A copy of current I-20, passport, visa, and I-94 card.
2. Transfer clearance from the international student advisor at the last college or university attended.
3. TSI test score or SAT/ACT scores showing exemptions. See TSI section for details.

Transfer students should submit admission requirements prior to the first day of registration to ensure enrollment.

For more information, contact the International Students Office at SCC-G103, 972.516.5012.

STUDENTS ON ACADEMIC SUSPENSION

See "Academic Standards" on page 24 or contact the Coordinator of Student Success at 972.881.5773 for more information.

RESIDENCE REQUIREMENTS

To be considered a Texas resident, students must clearly establish residence in Texas for the 12 months preceding their enrollment. Documentation of Texas residency will be required.

1. An in-county student is an individual who is a resident of Texas and who resides in Collin County on the census date of the term.
2. An out-of-county student is a resident of Texas who resides outside of Collin County on the census date of the term.
3. An out-of-state student is an individual who has not resided in Texas for 12 months preceding registration. Most students on temporary visas will also be classified as non-residents for tuition purposes. Contact the Admissions Office for visas eligible for in-state residency.

The responsibility for registering under the proper residency classification is that of the student, and any question concerning the student's right to classification as a resident of Collin County must be clarified prior to enrollment at Collin. Changes of address, name, etc. must be reported promptly to the Admissions and Records Office. This enables students to receive registration and other information from various college departments and programs. Changes of address affecting residency should be reported promptly to the Admissions and Records Office.

Students who are dependent on a parent's residence status should go to the Admissions and Records Office for the proper form to complete.

Documents To Support Residency

Documentation of Texas residency may be required if the information given on the Application for Admission is not adequate to prove residency. If so, the following documents may be used in meeting residency requirements:

- Permanent Texas driver's license or Texas ID card (at least one year old)
- Texas high school transcript (if enrolled within the last 12 months)
- Letter of employment on company letterhead (verifying one year of employment)
- Texas voter's registration card (at least one year old)
- Lease agreement(s) covering the past 12 months
- Collin County property tax statements

Ad Valorem Waivers

Students who have not lived in Texas for the 12 months preceding registration, but who own property in Collin County, may be eligible for an ad valorem waiver. A copy of one's deed or most recent property tax statement is required for verification. If this waiver is based on a student's parents' property ownership, go to the Admissions and Records Office for the proper form to complete. Once Texas residency

has been established (12 months), ad valorem waivers will no longer be necessary. Property owners on most types of temporary visas are not eligible for the ad valorem waiver. Students must generally be U.S. citizens or permanent residents to be eligible for an ad valorem waiver.

REGISTRATION PROCEDURES

Telephone and Weblines Registration

Telephone and Weblines Registration provide students with an opportunity to register early in courses for the upcoming semester. This process is designed for students who have completed admissions, TSI requirements, and assessment requirements and have met with an academic advisor. Telephone and Weblines Registration enable students to have earlier course selection, more comprehensive academic advisement, and utilize the Tuition Installment Plan.

See the current *Collin Schedule of Classes* for a listing of dates, times, and complete instructions.

On-Site Late Registration

On-Site Late Registration is scheduled prior to the beginning of classes with admissions, assessment, TSI testing, and academic advising services available at that time. Comprehensive admissions, assessment, TSI testing, and advising programs are more easily obtained prior to On-Site Late Registration, and students are encouraged to complete these steps early. Tuition and fees are due at the time of registration. See the current *Collin Schedule of Classes* for a listing of On-Site Late Registration times and locations.

Add/Drop

Students registering during Add/Drop must meet all TSI requirements. A late registration fee will be assessed. This fee is not assessed to students who have completed registration during Telephone, Weblines, or On-Site Late Registration periods and are making schedule changes, or to students who are registering on an audit basis. Students may also add available classes prior to the third class hour of the course being added. See page 20 for details.

Registration for Continuing Education and Workforce Development Classes

Each semester Collin offers continuing education classes to community members through the Continuing Education and Workforce Development Division. Registration for these classes can be done in four ways:

1. **Walk-in registration:** Available at Courtyard Center, Central Park, Preston Ridge, or Spring Creek campuses: Times are listed in the current *Continuing Education Schedule of Classes*.
2. **Phone-in registration (VISA, Mastercard, Discover only):** Call 972.548.6855 or 972.985.3711. Times and dates are listed in the current *Continuing Education Schedule of Classes*.
3. **Mail-in registration:** Send your registration information to: Registration, Collin County Community College, Courtyard

Center for Professional and Economic Development, 4800 Preston Park Boulevard, Box 12, Plano, Texas 75093.

See the current *Continuing Education Schedule of Classes* for registration deadlines.

4. Fax-in registration (credit card only): Check the current *Continuing Education Schedule of Classes* for fax availability. Fax your registration to 972.985.3723 or 972.548.1702.

See page 43 for more information on the *Continuing Education and Workforce Development Division*.

5. Online registration (credit card only): Go to www.ccccd.edu/ce to see the current *Continuing Education Schedule of Classes* and registration procedures.

STUDENT ID CARDS

All credit students at Collin are required to have a Student ID Card to use services provided by college offices and labs including Admissions and Records, Collin Bookstore, Career Services, Computer Labs, Fitness Center, LRC, Math Lab, Student Life, and the Testing Center. Student Life makes ID cards. Student ID office hours are listed in the *Collin Student Handbook*.

First-time students are assessed a student ID fee with their tuition. Once the student has registered and paid for their courses, the ID card will be issued in accordance with the dates posted in the calendar section of the *Collin Schedule of Classes*. Students must show a form of photo identification in order to have their student ID card issued. The ID card will be valid district-wide throughout the student's tenure at the college. Student ID cards will be automatically reactivated each semester after the student enrolls in courses and pays the corresponding tuition and fees.

For a fee, a replacement ID card will be reissued for students whose card has been lost, stolen, or damaged, who have had a name change, or who would prefer a new photo. **Only currently enrolled students may request a replacement ID card. Contact Student Life for more information.**

TUITION AND FEES

Tuition is based on residency and the number of credit hours in which a student enrolls. Following is a schedule of tuition and fees by residency classification.

Lab fees are additional costs. Other fees may be assessed as new programs are developed. These fees will be kept to a practical minimum.

Special fees and charges may be added as necessary and as approved by the college Board of Trustees.

Students participating in commencement ceremonies must purchase graduation regalia (cap and gown) from the college bookstore.

It is the policy of the college to revoke check-writing privileges to persons from whom it has received more than three returned checks.

TUITION AND FEE SCHEDULE*

Credit Hours	In-County \$37/credit hour	Out-of-County \$43/credit hour	Out-of State/Country \$90/credit hour
1	\$39.00	\$45.00	\$212.00**
2	\$76.00	\$88.00	\$222.00**
3	\$113.00	\$131.00	\$272.00
4	\$150.00	\$174.00	\$362.00
5	\$187.00	\$217.00	\$452.00
6	\$224.00	\$260.00	\$542.00
7	\$261.00	\$303.00	\$632.00
8	\$298.00	\$346.00	\$722.00
9	\$335.00	\$389.00	\$812.00
10	\$372.00	\$432.00	\$902.00
11	\$409.00	\$475.00	\$992.00
12	\$446.00	\$518.00	\$1,082.00
13	\$483.00	\$561.00	\$1,172.00
14	\$520.00	\$604.00	\$1,262.00
15	\$557.00	\$647.00	\$1,352.00
16	\$594.00	\$690.00	\$1,442.00
17	\$631.00	\$733.00	\$1,532.00
18	\$668.00	\$776.00	\$1,622.00
19	\$705.00	\$819.00	\$1,712.00
20	\$742.00	\$862.00	\$1,802.00
21	\$779.00	\$905.00	\$1,892.00

* Subject to change by the College Board of Trustees.

See Tuition changes for Spring 2006 at

<http://www.ccccd.edu/aro/tuition.htm>

** Includes \$200 minimum required by law

Fees+

Other fees are applied as required regardless of residency.

Per Semester

Student Records fee**\$2

First Enrollment

Student ID Card fee***\$2

Other Fees

Audit fee**\$25 per course

Credit by Exam fee**\$30 per course

Lab fees† \$0-24 per lab

Late Registration fee**\$10

Returned Check fee\$20

** Non-refundable

*** The Student ID Card fee is a non-refundable, one-time fee charged to all students for their initial ID card. Replacement cards are \$2. Only currently enrolled students may request a replacement Student ID Card. The Student ID Card fee is subject to change. Any change in the cost of a Student ID

Card or replacement card will be listed in the Collin Schedule of Classes.

† Some Fine Arts, Music, and Physical Education classes have higher fees.

NOTE: Firefighters qualifying for a tuition and lab fee waiver are required to pay the Building Use and Student Life fees.

NOTE: Valedictorians qualifying for a tuition waiver are required to pay the Building Use and Student Life fees.

NOTE: Veterans qualifying for a tuition and fee waiver are required to pay the Student Life and Student Records fees.

NOTE: Fees for Continuing Education courses can be found in the current Continuing Education Schedule of Classes.

COST PER CREDIT HOUR EXAMPLE

In addition to tuition, each credit hour cost includes the following fees: Building Use Fee (\$9) and Student Life Fee (\$1).

Per Hour	In-County	Out-of-County	Out-of-State
Tuition	\$27	\$33	\$80
Bldg. Use Fee	9	9	9
Student Life Fee	1	1	1
Total	<u>\$37</u>	<u>\$43</u>	<u>\$90</u>

Senior Citizen Reduced Tuition

Texas residents age 55 and older by the first class day of the semester are eligible to pay reduced tuition as follows:

Age 55-64 — \$10 per credit hour for tuition and building use fee; other fees will be charged as stated above.

Age 65 and Older — Tuition for up to six credit hours per semester is free on a space-available basis; other fees will be charged as stated above. See current Collin Schedule of Classes for more information.

REFUNDS

Refund calculations are based on the state-mandated refund policy. Full (100 percent less non-refundable fees) refunds are calculated on withdrawals and drops occurring prior to each semester's first class day. Each semester's first class day is always the first official day of the semester, not the first day of an individual's class.

Refunds are processed approximately five weeks after the first class day.

The complete refund policy is listed in the *Collin Schedule of Classes*.

ACADEMIC

policies

ADDING/DROPPING COURSES

A change in a student's schedule may be made by telephone or online during Telephone and Weblines Registration, or by submitting an Add/Drop form to the Admissions and Records Office during On-Site Late Registration. Students may add available classes prior to the beginning of the third class hour. Students may withdraw from a course with a grade of "W" through the end of the 12th class week during a regular (16-week) term, through the end of the fourth week in a short (five-week) summer term, through the end of the seventh week in a long (10-week) summer term, and through the middle of the second week in Maymester or Wintermester. Contact the Admissions and Records Office for withdrawal deadlines for other terms.

International students should contact the International Student Office and students receiving financial aid or veteran's assistance should see the appropriate college official before dropping or withdrawing. See "Withdrawal from the College," page 26, for exact procedures.

Students should contact their professors prior to initiating a drop or withdrawal. A student who discontinues class attendance and does not officially drop or withdraw from the course will receive a performance grade.

AUDITING COURSES

Students who are auditing classes will not receive grades or credit for the course, but their transcript will indicate that the course was audited. Students who are auditing classes will not be required to take tests; however, participation in regular class activities is expected. Foreign language, sign language, Cisco, Microsoft, and all Business and Computer Science classes may not be audited. (The Continuing Education Division offers foreign language classes. See the current *Continuing Education Schedule of Classes*.)

Any student intending to audit a course may register for that course during Late Registration only. Audit students are subject to the usual registration process. A special non-refundable audit fee is assessed for each class in addition to regular tuition and fees.



Those registering for credit during this time may not later change their status to audit (non-credit). However, audit students may change to credit status prior to the term's census date.

PASS/FAIL GRADE OPTION

Non-degree seeking students may select a pass/fail grade option for foreign language, sign language, and creative writing courses. This option is not available for students working toward a degree plan or intending to transfer to another institution. To select a pass/fail grade, complete the appropriate form at the Admissions and Records Office on or before the census date of the term.

CLASS ATTENDANCE

Regular classroom attendance is expected of all students. Professors determine class attendance requirements; therefore, students should ascertain each professor's attendance policy on the first day of the class.

Students who receive Veteran's Administration educational benefits must conform to attendance and academic standards as established by the Veteran's Administration and college policy. Information concerning requirements for attendance, satisfactory progress, certification of benefits, and all other questions affecting veteran students may be obtained from the Director of Financial Aid/Veterans Affairs. It is the veteran student's responsibility to determine and conform to college policies affecting veterans.

RELIGIOUS HOLY DAYS

In accordance with Section 51.911 of the Texas Education Code, the college will allow a student who is absent from class for the observance of a religious holy day to take an examination or complete an assignment scheduled for that day within a reasonable time. A copy of the state rules and procedures regarding holy days and the form for notification of absence from each class under this provision are available from the Admissions and Records Office.

GRADING SYSTEM

A	Excellent	4 grade points per credit hour
B	Above Average	3 grade points per credit hour
C	Average	2 grade points per credit hour
D	Below Average	1 grade point per credit hour
F	Failure	0 grade points per credit hour
W	Withdrawal	0 grade points per credit hour; is not computed toward cumulative GPA or cumulative hours.
I	Incomplete	0 grade points per credit hour; not computed toward cumulative GPA unless it is replaced with a performance grade. (See "Incomplete Grades and Contracts")

IP	In-Progress	0 grade points per credit hour; not computed toward cumulative GPA. Student has completed 70 percent of the program but is not yet at competency level; must complete the remaining work during the next regular (16-week) semester or receive an "IP" as the permanent grade. "IP" is earned only in ENGL 0300, 0305, 0310, 0315, and ESL classes.
AU	Audit	0 grade points per credit hour; is not computed toward cumulative grade point average nor cumulative hours.
CR	Credit	0 grade points per credit hour; is not computed in GPA but is computed in cumulative hours. Earned only when recording non-traditional credit or continuing education units; will not meet residency hours.
Z	No grade reported	0 grade points per credit hour until the professor replaces it with a performance grade; is not computed in cumulative grade point nor cumulative hours.
P	Pass	0 grade points per credit hour; is not computed in GPA but is computed in cumulative hours.

At the completion of each term, the college will determine the student's semester and cumulative grade point averages, which will be recorded on the student's official transcript. Grades earned in developmental education courses are not included in the grade point average. Grades are available through the Telephone and Webline Registration Systems.

GRADUATION

The college offers Associate of Arts, Associate of Arts in Teaching, Associate of Science, and Associate of Applied Science degrees and certificate programs. Students who plan to graduate from Collin should request a degree plan prior to the completion of 30 credit hours. Students must be currently admitted to Collin to request a degree plan. Degrees and certificates that have been deactivated by the THECB (Texas Higher Education Coordinating Board) must be completed within three years of the date the program ended.

A student who completes specific course requirements for a degree or certificate with a minimum cumulative grade point average of 2.0 is a candidate for graduation.

TSI requirements must be complete in order to be considered a candidate for graduation.

Associate of Arts, Associate of Arts in Teaching, Associate of Science, or Associate of Applied Science degree honors will be

awarded to students with the following cumulative grade point average at Collin:

4.0	Summa cum laude
3.75-3.99	Magna cum laude
3.5-3.74	Cum laude

Honors are calculated using all Collin college-level coursework and transfer courses from other accredited colleges and universities. (Grades earned in developmental education courses are not included.)

Students participating in commencement ceremonies must purchase graduation regalia (cap and gown) from the college bookstore.

Associate Degrees

Students may earn an Associate of Arts degree, an Associate of Arts in Teaching, or an Associate of Science degree. Students may also earn an Associate of Applied Science degree and certificates. See pages 53-127 for specific degree plans. To graduate, students must complete a minimum of 18 credit hours at Collin and satisfy all other degree requirements. Non-traditional and developmental course credit does not meet this residency requirement.

Candidates for an associate degree should submit an application for graduation at the beginning of the semester of degree completion.

Summer Graduates

Students with six hours or less remaining toward completion of an associate degree may participate in the current year's graduation ceremonies provided they are pre-registered for the appropriate summer courses. Students planning to complete graduation requirements during a summer session and participate in graduation ceremonies must file for graduation by the preceding spring semester deadline. Otherwise, summer graduates may participate in the following year's ceremonies.

Certificate Programs

Students obtaining certificates containing 18 hours or less must complete 15 hours of coursework in residence at Collin. Petitions for transfer credits into certificate programs containing 18 hours or less may be made to the division dean through the Degree Plan Coordinator. Certificates will be awarded upon completion of program requirements. Although certificates are normally one year in length, the specific number of credit hours varies by program area. Students earning certificates may participate in commencement ceremonies.

Candidates for a certificate should submit an application for graduation at the beginning of the semester of degree completion.

Marketable Skills Achievement Awards

Marketable Skills Achievement Awards (MSA) are 9-14 credit hour awards that add to the student's marketability or makes the student eligible for immediate employment. These awards are also designed as a stepping stone toward earning certificates or the AAS.

HIGH ACADEMIC ACHIEVEMENT

All students who complete 12 or more quality credit hours during a regular (16-week) term with a current 3.5 GPA or above qualify for the Dean's List.

All students who complete 12 or more quality credit hours during a regular (16-week) term with a current 4.0 GPA qualify for the President's List.

INCOMPLETE GRADES AND CONTRACTS

The "I" grade is assigned only for extenuating circumstances. Incomplete contracts must be agreed to and signed by the student, professor, chair and appropriate division dean before the end of the term in order for a grade of "I" to be assigned. The contract must define the exact requirements (not to exceed 20 percent of the coursework) the student is to fulfill in order to receive a performance grade. If remaining work is greater than 20 percent of the coursework, Vice-President of Academic Affairs approval is required. Requirements of incomplete contracts must be completed as specified in the contract, but by no later than the end of the following 16-week term. The contract will state that if the work is not completed as specified, the grade will be changed to a performance grade based on the quality and amount of work completed.

NON-TRADITIONAL COLLEGE CREDIT (NTCC)

Various credit options enable persons who have acquired knowledge and skills in non-traditional ways to demonstrate academic achievement. Credit may be given for college-level experience as demonstrated by acceptable test results regardless of the means by which the knowledge was acquired, except for college credit that has been previously granted. Students may also receive credit for some previous military training. Please note that a fee for test administration and transcript recording will be assessed. Without special permission from the Vice President of Academic Affairs, no more than 18 hours of NTCC may be counted toward a degree. NTCC will be transcribed only after six hours traditional, non-transfer credit is achieved at Collin.

For additional information regarding College-Level Examination Program (CLEP) examinations, departmental examinations, advanced placement tests, Tech Prep, armed forces credit, and credit for the completion of the Certified Professional Secretaries examination, contact the Director of Testing or the Admissions and Records Office.

Advanced Placement Tests of the College Board (AP)

Beginning freshmen who have received college-level training in secondary schools and who present scores of three, four, or five on the appropriate Advanced Placement Examination will be granted, on request, placement and credit for comparable courses at the college following the completion of six semester hours at Collin. For more information contact the Director of Testing.

Armed Forces Credit

In addition to using credit earned at other institutions to achieve advanced placement at the college, students may also receive such standing by presenting evidence of having satisfactorily completed a program of military training for which equivalent college credit may be given in accordance with the American Council on Education Standards and Recommendations. Armed Forces credit is evaluated by the Degree Plan Coordinator.

College-Level Examination Program (CLEP)

Most public-supported colleges and universities have agreed to accept as transfer credits all CLEP credit granted by regionally accredited institutions using the criteria below. Students planning to use CLEP credit to meet degree requirements at other institutions should check the requirements of the receiving institution. CLEP General Exams are not evaluated for credit at Collin. The college uses the following criteria for CLEP Subject Examination evaluation:

1. CLEP credit shall be recorded on transcripts with a “CR” in order to be clearly recognized as credit earned by examination.
2. CLEP credits shall not be granted if they duplicate credits for courses already completed.
3. Credit is awarded for CLEP Subject Examination scores at or above the 70th percentile. Official score reports should be sent to the Director of Testing.
4. A non-refundable processing fee will be charged for each CLEP examination in addition to the required fee for the CLEP examination.

Credit by Exam (Departmental Exams)

Credit for some courses may be granted upon successful completion of a comprehensive examination over the content of the course. A non-refundable fee is charged for each course examination. Students must be currently or previously enrolled or have earned credit at the college to receive credit by examination. Credit by exam may be attempted only once for any given course. The student must score at or above 70 percent to receive credit for the course. Some credit by exams may require portfolio review.

Portfolio Review for Credit

If a credit by exam requires portfolio review before credit is awarded the students must follow the steps outlined below.

1. The student must pick up an institutional Credit by Exam/Portfolio Review form from a campus Testing Center.
2. Contact one of the full-time faculty in the discipline for an appointment to review the student’s portfolio.
3. The professor will review the portfolio to see if the coursework meets all the course requirements for which the student seeks credit.
4. If the student’s portfolio meets or exceeds the competencies, the professor will complete and submit the Credit by Exam form which will be returned to a campus Testing Center for credit.

If the student’s coursework does not meet the competencies, he/she will be advised to take the course.

STUDENT RECORDS

Procedure to Inspect Education Records

Students may inspect and review their education records upon request to the Registrar. Students should submit to the Registrar a written request that identifies as precisely as possible the record or records they wish to inspect. Contact the Registrar for procedures on students’ rights of inspection, review, and correction of educational records.

Disclosure of Education Records

The college will disclose information from a student’s education records only with the prior written consent of the student, except with regard to the law that provides for disclosure without consent as indicated below:

1. To school officials who have a legitimate educational interest in the records.
2. To other schools.
3. To certain officials of the U.S. Department of Education, the Comptroller General, and state and local educational authorities in connection with certain state or federally supported education programs.
4. In connection with a student’s request for or receipt of financial aid, as necessary to determine the eligibility, amount or conditions of the financial aid, or to enforce the terms and conditions of the aid.
5. If required by a state law requiring disclosure that was adopted before November 19, 1974.
6. To organizations conducting certain studies for or on behalf of the college.
7. To accrediting organizations to carry out their functions.
8. To comply with a judicial order or a lawfully issued subpoena.
9. To appropriate parties in a health or safety emergency.
10. As it relates to directory information, unless the student restricts directory information.
11. To the student.
12. Results of disciplinary hearing to alleged victim of a crime of violence.
13. To Collin’s Public Safety Officers in a health or safety emergency.

Directory Information

In compliance with the Family Educational Rights and Privacy Act (FERPA) of 1974, Federal Law 99-380, information classified as “Directory Information” may be released to the general public without the consent of the student. Directory information is defined as:

1. Student name
2. Student address

3. Telephone listing
4. Major field(s) of study
5. Participation in officially recognized activities and sports
6. Weight and height of athletic team members
7. Dates of attendance/enrollment
8. Most recent previous educational institution attended
9. Degrees and awards received
10. Photo/visual likeness

A student may request that directory information be withheld from the public by completing and filing a request with the Admissions and Records Office. If no request is filed, directory information will be released upon inquiry. Filed requests are valid until revoked by the student in writing.

Directory information is the only part of a student's record that may be released without the student's prior written permission, except with regard to the law that provides for disclosure without consent.

REPEATING COURSES

Grades of all courses taken will be recorded on the student's transcript. Only the grade and credits earned (whether higher or lower) in the most recent course repeated will be used in computing the grade point average and applied toward degree or program requirements. A course in which a grade (including W) has been received can be repeated only one time to replace the grade. Registration holds will be placed on courses that have been attempted twice.

Veterans should consult the Director of Financial Aid/Veterans Affairs before repeating any course. Students planning to transfer to another college or university should check with a Collin academic advisor or with receiving institutions for their repeat policies.

ACADEMIC STANDARDS

All students are encouraged to work toward achieving their goals and maintaining scholastic progress throughout their enrollment at the college. Students who maintain a 2.0 or better each semester and maintain a 2.0 or better cumulative grade point average (GPA) are considered in good standing.

Students Success Program (SSP)

SSP refers to the policies and procedures that govern Collin students on any academic action status as outlined below. The policies set forth will be strictly enforced. Students are required to develop an individualized plan for success in consultation with the Coordinator for Student Success or a full-time academic advisor. In order to have academic holds removed, a student must maintain a cumulative GPA of 2.0 for two regular (16- week) semesters. In an effort to promote student success, students participating in the Student Success Program (SSP) will not be permitted to enroll in classes after classes have begun for the semester. This includes regular (16-week) classes and all express

and flex-entry classes. Students who do not meet the academic standards and do not earn a minimum 2.0 cumulative 2.0 GPA will be placed on one of the following academic actions.

Academic Warning

Students who have less than a cumulative 2.0 GPA and less than 12 earned hours* will be placed on academic warning. A registration hold will be placed on students' records, and they will be notified in writing of their academic status. Students must meet with a full-time academic advisor to discuss available support services and to have the academic hold removed.

**NOTE: Earned hours refer to the number of credit hours a student successfully completes, including college level, developmental, non-traditional and transfer work.*

Academic Probation

Students who have less than a 2.0 cumulative GPA, and have earned more than 12 credit hours in previous semesters, will be placed on Academic Probation and notified in writing of their probationary status. Students on academic probation will be required to meet with the Coordinator for Student Success or a full-time academic advisor in order to register for classes. Probation students are limited to 12 semester hours during each regular (16- week) semester. Students on academic probation must meet the following requirements:

1. Limited enrollment of no more than 12 credit hours per semester.
2. Enroll in a mandatory study skills class (included within the 12 semester hour limitation).
 - a. A student may not withdraw from study skills class unless they withdraw from all classes.
 - b. Student who fails a study skills class will have course enrollment limited to 6 credit hours the next semester
4. Submit a progress report at mid-semester
5. Earn a 2.0 GPA for the current semester

Continued Enrollment on Probation

Students whose status is academic probation but who wish to continue their enrollment and have earned a 2.0 GPA for the semester, but still have a cumulative GPA of less than 2.0, may continue their studies at the college. Student must maintain a current 2.0 GPA for each subsequent term. Students on continued enrollment on probation will have a hold placed on their record and will be required to meet with the Coordinator for Student Success or a full-time academic advisor. Enrollment stipulations are the same as those outlined under Academic Probation.

Academic Suspension

Academic Suspension occurs when a student whose previous status was Continued Enrollment on Probation fails to earn a 2.0 GPA for the current semester and has a cumulative GPA below 2.0. Students

on this status will be suspended from the college for one regular (16-week) semester.

Readmission After a Period of Academic Suspension

After a period of Academic Suspension (one regular 16-week semester), a student may be readmitted on Academic Probation status. Before readmission, the student must meet with the Coordinator for Student Success or a full-time academic advisor and complete a Petition for Readmission. This meeting is designed to assist the student in formulating an individualized plan for success. Enrollment stipulations are the same as those outlined under Academic Probation.

Academic Dismissal

Students who were previously on Academic Suspension, have been readmitted on probationary status, and did not earn a 2.0 GPA for the current semester will automatically be dismissed from the college for a period of one academic year [two regular (16-week) semesters].

Readmission After a Period of Academic Dismissal

To be considered for readmission to the college, students must meet with the Coordinator for Student Success, submit a Petition for Readmission, and meet other re-enrollment requirements based on the student's individual situation, as determined in consultation with the Coordinator for Student Success. If readmitted, students must earn a 2.0 GPA for current semester (credit hours approved may be below 12). If 2.0 GPA is not earned, student will automatically be dismissed from the college for a period of two years. After two dismissals, a student is required to maintain a 2.0 GPA for current semester. If 2.0 GPA is not maintained, a student is placed on permanent academic dismissal.

Students on Probation, Suspension, or Dismissal from Other Colleges

Students on probation, suspension or dismissal from other colleges may seek enrollment at Collin. To be considered for admission, the student must have an official transcript(s), an unofficial transcript, or grade report from the most recent college attended. If this requirement is met, then the following must be completed:

1. Application for Admission
2. Meet with the Coordinator for Student Success or designated advisor
3. Enroll in study skills class, with a total enrollment not to exceed 12 credit hours

A student must earn a 2.0 cumulative GPA for the first semester enrolled. If a 2.0 GPA is not achieved, then the student will be placed on suspension for one regular (16-week) semester. A student must maintain a 2.0 cumulative GPA for two regular (16-week) semesters in order for the academic hold to be removed.

Right of Appeal

A student placed on Academic Dismissal has the right to appeal to the Academic Progress Appeals Committee. The appeal process will allow a student to appeal a dismissal for unsatisfactory academic progress based upon: (a) the death of a relative, (b) an injury or illness of the student, (c) other special circumstances. Information about the appeal process may be obtained from the Academic Advising Department or the college website.

STUDENT CLASSIFICATIONS

- **Freshman:** A student who has successfully completed fewer than 30 quality hours.
- **Sophomore:** A student who has successfully completed 30 or more quality hours, but has not earned a degree.
- **Full-time:** A student enrolled for 12 credit hours or more in a regular (16-week) semester, six credit hours or more in a five-week summer session, or nine credit hours or more in a 10-week summer session.
- **Part-time:** A student enrolled for 11 credit hours or less in a regular (16-week) semester, five credit hours or less in a five-week summer session, or eight credit hours or less in a 10-week summer session.

Classification varies for courses meeting on alternative or accelerated schedules.

Students with disabilities should contact the ACCESS office at 972.881.5898 for student classification/load information.

STUDENT SELF-SERVICE ENROLLMENT VERIFICATION

This program provides students with on-line access to enrollment verification services from the National Student Clearinghouse. By using a link on the college website, students can achieve the following.

- Print a certificate of enrollment that can be forwarded to a health insurer, housing provider, credit issuer, employment agency, or other student services providers.
- View enrollment information that may have been provided to a student services provider.
- View electronic notifications and deferment forms that have been sent to lenders, servicers, and guarantors.
- View a list of their lenders and link to real-time student loan information detail, such as outstanding principal balance and the next payment due date that some lenders provide.

Website: www.ccccd.edu; the link is: Student Self Service Enrollment Verifications.

Students may contact the National Student Clearinghouse directly at 703.742.7791 or www.studentclearinghouse.org for further questions concerning their enrollment verifications.

STUDENT LOAD

A full-time student load is a minimum of 12 credit hours per 16-week semester. Students taking 11 credit hours or less per 16-week semester are classified as part-time students. Full-time status during the summer sessions or accelerated sessions may vary. For clarification, see “Student Classifications” or the Registrar.

Students with disabilities should contact the ACCESS office at 972.881.5898 for student classification/load information.

Students may, with special permission from the Registrar, enroll for more than 18 credit hours during a regular session and seven hours in a summer session. Permission will not be granted unless the student has a 3.0 cumulative grade point average and plans to carry no more than 21 hours during a regular (16-week) semester or nine hours during a summer session. Students are limited to one course (maximum three credit hours) during the Wintermester or Maymester sessions.

STUDENT RIGHT TO KNOW

Under the terms of the Student Right to Know Act, the college maintains and updates on an annual basis, student persistence, graduation rates, transfer rates and other relevant statistics. To obtain copies of these reports, contact the Academic Advising Department, the Office of the Dean of Students, the Recruitment and Programs for New Students Office or the Provost Office on any campus.

TRACKING OF AT-RISK STUDENTS

The Office of Institutional Research tracks Collin students who, based on TSI or college assessment scores, are placed in developmental courses. The college tracks these students to ascertain their success in developmental courses and in subsequent college-level courses.

TRANSCRIPTS

Requests for official transcripts must be made by the student to the Admissions and Records Office. A student’s written permission must be on file in the Admissions and Records Office before transcripts will be released to other parties (except for releasing to the student or another school.) To request a transcript, students may complete a Transcript Request form available from the Admissions and Records Office, mail or fax a signed request to the Admissions and Records Office, or access the college website at www.ccccd.edu.

VERIFICATION OF STUDENT DEGREES

Collin has partnered with the National Student Clearinghouse to provide degree verifications. Students, as well as employment agencies, credit issuers and other student servicers can contact the National Student Clearinghouse directly to receive degree verification at 703.742.7791 or www.studentclearinghouse.org.

VETERANS CERTIFICATION

Veterans wishing to enroll and receive benefits should contact the Director of Financial Aid/Veterans Affairs. In order to receive benefits, veterans must maintain satisfactory progress as stipulated by the Veterans Administration and college policy. All prior credit earned through civilian or military education must be submitted to the Degree Plan Coordinator for transfer evaluation.

WITHDRAWAL FROM THE COLLEGE

Students may withdraw with a grade of “W” through the end of the 12th week during the regular (16-week) semester or the end of the fourth week during the short summer session, by completing a form in the Admissions and Records Office. Students may also withdraw from the college by mailing or faxing a written request for such action. The request must include the student’s signature and the student’s address, student ID number, phone number(s), and course names and numbers. The date postmarked on the envelope or imprinted on the fax will be the official withdrawal date.

Students should contact their professor prior to initiating a drop or withdrawal. Withdrawal from the college should be student-initiated.

Students who discontinue class attendance and do not officially withdraw will receive a performance grade for the course.

STUDENT

development



ACADEMIC AND PERSONAL ENHANCEMENT

Credit and non-credit courses are available for students to enrich their development in study skills, career planning, and personal development. For more information, see the ACPE course descriptions listed in the back of this catalog.

ACADEMIC ADVISING

Academic advising, an integral component of each student's success at Collin, is a continual process at the college. Any prospective student interested in talking with an advisor should contact the Academic Advising Department located within the Student Development Center at each campus. New students are advised through the Academic Advising Department prior to their first registration at Collin.

Students are strongly encouraged to meet with an academic advisor each semester to evaluate their academic progress. Academic advisors and their phone numbers are listed by instructional division on page 6.

Academic advising is housed in the Student Development Center at each campus and offers:

- Assistance for undecided and new students in selecting a field of study
- Facts about classes and programs
- Assistance with registration as a Collin student and adjustment to college life
- Information about academic requirements
- Procedures for dropping a class, appealing grades, registration, etc.
- Preparation for telephone and weblines registration
- Assistance in establishing a degree plan
- Transfer information for those planning to attend a college or university
- Advising for athletes
- Advising for Student Success Program (SSP)

ACADEMIC ETHICS

Collin expects all members of the academic community to demonstrate honesty and integrity in every endeavor. Plagiarism, collusion, cheating and other acts of scholastic dishonesty lessen the entire process of learning and acquiring knowledge.

For more information on Scholastic Dishonesty, see the *Collin Student Handbook* or contact the Dean of Students Office.

ACCESS

ACCESS (Accommodations at Collin County for Equal Support Services) is a comprehensive accommodation program for all Collin students.

Following Americans with Disabilities Act of 1990 guidelines and Section 504 of the Vocational Rehabilitation Act of 1973, reasonable accommodations for students with documented disabilities are provided. Students with disabilities are encouraged to make an appointment with an ACCESS advisor at least one month prior to the beginning of classes. Services include: interpreters, notetakers, scribes, readers, and testing accommodations. Furthermore, a licensed educational diagnostician conducts psychoeducational evaluations for students requiring testing for learning disabilities. Following evaluation of the test results, the diagnostician makes recommendations to the student.

The Special Needs Center, located within the Learning Resources Center at Central Park Preston Ridge, and Spring Creek campuses, is equipped with low-vision readers, scanners, and a voice synthesized speech program in addition to other assistive technology. For information on these and related services, contact the ACCESS Office.

ACCESS also provides tutoring services for all students at the college.

The ACCESS Office is located at SCC-G200. Please contact this office at 972.881.5898 or 972.881.5950 TTY for services on all campuses.

ASSESSMENT AND TESTING SERVICES

Testing Centers are located at CPC, PRC, and SCC for proctoring, credit by exam testing, instructional testing, assessment for course placement, and tests for TSI purposes. Collin is an official testing site for SAT (Scholastic Aptitude Test), ACT (American College Testing Program), CLEP (College-Level Examination Program), and THEA (Texas Higher Education Assessment).

TSI – Texas Success Initiative

TSI assessment is a test of reading, writing, and mathematics that is required of all students taking college-level courses at a public college in Texas. The test fee will be paid by the student. All students seeking teacher certification will be required to take THEA. Performance on TSI will not be used as a condition for admission to Collin. Students can enroll only in developmental education coursework without having taken TSI assessment.

In addition, students may seek exemption from TSI based on:

- A composite ACT score of 23 or higher (with individual mathematics and English scores of no less than 19)
- A combined SAT score of 1070 (with a minimum of 500 on the mathematical and verbal tests each), or
- TAKS (taken as a junior) with a minimum qualifying score of 2200 math and ENLA 2200 with writing sub score of 3.

ACT and SAT scores can be no more than five years old. TAKS scores can be no more than three years old.

Partial Exemptions

- Student who tested after April 1, 2004 and has a composite score of 23 (or higher) can be exempt from TSI Math with an ACT Math score of 19 (or higher) even though the ACT Verbal may be less than 19. Likewise, an ACT Verbal score of 19 (or higher) even though the ACT Math may be less than 19 can be exempt from TSI Reading and TSI Writing.
- Student who tested after April 1, 2004 and has a composite score of 1070 (or higher) can be exempt from TSI Math with a SAT Math score of 500 (or higher) even though the SAT Verbal may be less than 500. Likewise, an SAT Verbal score of 500 (or higher) even though the SAT Math may be less than 500 can be exempt from TSI Reading and Writing.
- Student who tested after April 1, 2004 with a TAKS Math score of 2200 (or higher) can be exempt from TSI Math. Likewise, a TAKS Eng. Lang. Arts score of 2200 with a writing sample of 3 exempts a student from TSI Reading and TSI Writing.

An alternative method to meet the TSI requirements is defined as follows: If a student has (1) taken a TSI section and failed; (2) enrolled in and completed appropriate developmental coursework; (3) taken the TSI a second time if required, failed; and (4) then attained a grade of “C or better” in an approved college-level course related to the failing area, the student has met the TSI requirement in the failed area

New students will be required to furnish the college with necessary proof regarding TSI status.

NOTE: For specific current information about TSI and Collin’s testing, contact the Director of Testing at 972.548.6773. Please note that, in addition to the state test, the college requires new students to be assessed in reading. All students must be assessed or provide proof of prerequisites prior to enrolling in an English or mathematics course. All students who wish to enroll in freshman English courses must be assessed for proper course placement. Developmental classes and tutorial assistance are available for students who need or want this support. Transfer students must provide documentation of TSI status. Documentation may be in the form of official TSI score reports or official transcripts.

Students may also apply in writing for TSI Waived status based on the following criteria:

1. If a casual student, non-degree seeking, and taking a course for personal enrichment.
2. If a student is pursuing a certificate in a program with 42 or less hours of credit, the student may request “TSI Waived” (not required) status by contacting the TSI Office at 972.881.5902.

Passing scores for the THEA are:

- Mathematics 230
- Reading 230
- Writing 220

Passing scores for COMPASS are:

- Mathematics 39
- Reading 81
- Writing 59/5

Basic Skills Assessment

Basic skills assessment is the process each student must complete to identify academic strengths and/or weaknesses. First-time college students are required to take Collin’s reading assessment prior to enrollment. Students who wish to enroll in any of the following courses must be assessed:

- English: ENGL 0300, 0305, 0315, and 1301
- English as a Second Language classes
- Mathematics: MATH 0302 or higher
- Reading 0300 or higher

Other assessments may be required based upon faculty and/or advisor recommendations. Some assessments may be waived based upon prerequisite proof or TSI scores as described in the following assessment policies.

Computer Science Assessment Policy

Basic computer literacy is required to substitute a higher-level computer transfer course for COSC 1300. Credit by examination is available for students whose academic programs do not require advanced computer literacy; check with the Computer Science Department Chair.

Mathematics Assessment Policy

Students with a THEA score of 270 or higher, or with a COMPASS score placing them into college algebra, may enroll in MATH 1314, MATH 1414, MATH 1324, or MATH 1342 without assessment. Otherwise, all students enrolling in mathematics courses above MATH 0300 must be assessed or show prerequisite proof. A student may enroll in MATH 0300 without assessment. Students are allowed to take the assessment twice before their mathematics entry level is established for enrollment during a semester. Students deciding not to enroll in a mathematics course during the semester of assessment may retain this assessment for one year, or may reassess at the beginning of the

semester when enrollment is planned. However, once students enroll in the appropriate course and have begun the developmental mathematics sequence of courses, they must continue from the point of entry through MATH 0310 before enrolling in MATH 1314, MATH 1414, MATH 1324, or MATH 1342. (*MATH 0305 is the prerequisite for MATH 1332*).

Students will not be allowed to retake the mathematics assessment test once they enroll in a developmental mathematics course unless they have an approved reevaluation petition, recommendation of their current developmental mathematics professor, and approval from the dean of Developmental Education.

Reading Assessment Policy

Students who have passed TSI reading or are exempt from TSI requirements based on test scores are not required to take Collin’s reading assessment. Otherwise, first time college students must take the reading assessment test. Students who assess below college level are required to see an academic advisor, are not eligible for Telephone or Weblines Registration, and are required to register for an appropriate developmental reading course. Enrollment in other courses may be limited. EXCEPTION: Students who take the ESL New Student Assessment.

Writing Assessment Policy

Students who are exempt from TSI requirements by ACT, SAT, or TAKS scores may enroll in ENGL 1301 without assessment. Otherwise, students may be required to take the college writing assessment for placement in the appropriate level English course and should consult with Academic Advising, the Testing Center, or the Division Office for placement requirements.

English as a Second Language (ESL)

New students wanting to enroll in an ESL course must take the ESL New Student Assessment. Interested students must pick up an ESL New Student Information packet from the Information Center at the Spring Creek Campus.

Assessment scores are valid for one year. These scores are used for course placement only and do not affect the admission status of students.

Students interested in taking ESL classes through the Continuing Education Division may call 972.985.3750 for assessment instructions.

Other Testing Services

The Testing Center also offers an extensive testing program in the following areas:

- CLEP – College-Level Examination Program
- ACT – American College Testing Program
- SAT – Scholastic Aptitude Test
- Credit By Exam Subject tests designed by college faculty
- Correspondence Testing (A fee is required for test administration)

Collin codes for these tests are shown below:

- CLEP (Spring Creek Campus) 1951
- ACT (Central Park Campus) 40460
- ACT (Spring Creek Campus) 42090
- SAT (Central Park Campus) 44-646
- SAT (Spring Creek Campus) 44-702
- THEA (Central Park Campus) 137
- THEA (Spring Creek Campus) 138

Students requiring more information on the above programs should contact the Director of Testing at 972.548.6773.

CAMPUS SECURITY

Collin's Public Safety Officers are licensed peace officers of the State of Texas and are trained and educated to protect life and both college and personal property. These officers are vested with full authority to enforce all Texas laws and regulations. All Texas motor vehicle laws will be enforced on Collin campuses.

The college complies with the provisions of the *Campus Security Act of 1990*, Public Law 101-542.

In compliance with the "Campus Sex Crimes Prevention Act" (section 1601 of Public Law 106-386) and the Jacob Wetterling Crimes Against Children and Sexually Violent Offender Registration Act, all persons required to register as part of the State of Texas's Sex Offender Registration Program are required to provide notice of their presence on campus.

For more information, contact Public Safety at 972.578.5555 or visit www.ccccd.edu/campuspolice/.

CAREER SERVICES & COOPERATIVE WORK EXPERIENCE

Career Services & Cooperative Work Experience (CS&CWE) offers a variety of services to enhance the career planning and exploration process. Five key elements have been outlined to assist students in making career decisions and completing the job search process. These services are FREE to students and Collin graduates while many are available to members of the community. There is a nominal charge to community members requesting career assessments with professional interpretation. Visit our web site by going to www.ccccd.edu, click on "Current Students," and then click on "Student Services."

First Key: Self-Assessment

What are your work values and interests, and how do they relate to careers? What school subjects appeal to you? How do you spend your free time? What are your hobbies? What did you enjoy about your previous jobs? What skills do you possess and what careers use these skills? How do all of the above relate to career choices?

Self-assessment is the first element in choosing a career path. The following resources are available to help you learn more about your personality, values and interests:

- Career Assessments: Myers-Briggs, COPEs, and COPS
- "eDiscover," an Internet-based career guidance program

Career assessments and professional interpretations are available by appointment.

Second Key: Explore Majors And Careers

Resources are available to help you investigate career fields and explore specific jobs as they relate to your self-assessment. These include:

- Library references with print materials, computer-based information, and various resource directories
- "eDiscover," an Internet-based career information and assessment tool
- Internet access for occupational research and job search (students)
- Workshops/seminars for career decision-making, job search, and professional development
- Opportunities to learn more about careers:
 - Annual Career Week (March-April)
 - National Career Development Month (November)
 - On-campus recruiting by area employers

Third Key: Research The Job Market

Job market information, including current trends, salary surveys, and job availability, is provided in the Career Center. Listings containing area employment agencies, human resource departments, and job hot line telephone numbers are also available. National as well as Texas job market information is available in publications and computer programs.

Fourth Key: Prepare and Market Yourself

To help you prepare for entry into the job market, Career Services & Co-op provides resume writing workshops and critiques, interview coaching, and videotaped mock interviews with critiques. These services are available by appointment or call for a schedule of workshops.

Also available are printed materials about:

- Cover letters
- Resume writing
- Interviewing
- Following up after the interview

Technical Career Advisor

A career advisor is available to assist students in Associate of Applied Science programs, students enrolled in certificate programs, and students identified as Special Populations. Assistance is also provided for students seeking employment after graduation. Contact the Technical Career Advisor for job search assistance and for information regarding the online resume posting service.

Fifth Key: Put Learning To Work

On-Campus Employment

Campus departments hire student workers to perform a variety of job functions. Students are eligible to work a maximum of 20 hours per week and are paid well above minimum wage. Student workers are classified as Student Assistants or Federal Work-Study students. Federal Work-Study students must apply and qualify for financial aid. Students qualifying for Federal Work-Study may be eligible to participate in the America Reads or America Counts programs (tutoring grades K–3 in area elementary schools), which pays more than jobs on campus.

Off-Campus Employment

CS&CWE provides job listings for off-campus positions ranging from entry-level to professional. Both part-time and full-time positions are available. A web-based listing of current job openings is available on computer for students and Collin graduates in each CS&CWE office. Students may also upload resumes for employer review.

Cooperative Education is available for students seeking course credit for career related employment. Specific details are outlined under the Cooperative Work Experience heading.

Cooperative Work Experience

Cooperative Work Experience (Co-op) is an educational program (academic course) designed to provide actual work experience that relates classroom study to career choice. Course elements include hands-on work experience, specific learning objectives, and participation in specialized, professional development seminars to build the skills employers are requesting. The integration of academic concepts with planned, supervised work experience assists students in developing greater self-awareness and validating career direction.

Co-op is designed to serve students in two-year technical fields as well as transfer-oriented students desiring academic co-ops. Most positions are paid, and there are also unpaid opportunities in academic co-op fields that require volunteer work to start, such as radio and television. Some disciplines now require academic co-op courses in the degree or certificate plan. Students for whom this applies are encouraged to contact Co-op at least one semester prior to expected Co-op enrollment. Co-op has open enrollment every month based upon when a student accepts a position. Students must obtain permission from the Co-op Office for these courses, and some require prerequisite(s) or instructor permission.

To be eligible, students must have completed at least one semester at Collin, have declared a major for a degree or certificate, have a minimum of 2.5 GPA, have accumulated up to nine credit hours in their major, be able to work at least 20 hours per week, and be concurrently enrolled in at least one additional three-hour academic course at Collin.

A student who is presently employed may use a current job for the academic co-op course if it relates to his/her ultimate career goal.

Students who are seeking related work experience may utilize the Co-op job search assistance service to obtain work that can be used to receive college credit. Work hours for a 16-week semester, along with 16 hours of classroom seminars and setting specific goals for the work period, are the key components of this course, which allows a student to earn credit hours towards a declared program. Work hours per week and number of weeks change with Summer III.

Students are encouraged to contact Co-op about information sessions or other questions they may have. Call 972.881.5104.

Guarantee For Job Competency

Graduates of the Associate of Applied Science (AAS) degree program or recipients of a Certificate of Proficiency, who are judged by their employer to be lacking in technical job skills identified as exit competencies for their specific degree program, will be provided up to nine tuition-free credit hours of additional skill training by the college. Special conditions that apply to the guarantee are as follows:

1. The graduate must have earned the AAS degree or Certificate of Proficiency beginning May 1993, or thereafter, in a technical, vocational, or occupational program identified in the college's general catalog.
2. The graduate must have completed the AAS degree at the college with 45 hours in residence and must have completed the degree within a five-year time span. All coursework for the certificate must have also been completed at the college within a five-year time span.
3. Graduates must be employed full-time in an area directly related to the area of program concentration as certified by the appropriate division dean.
4. Employment must commence within six months of graduation or certification.
5. The employer must certify in writing, within 90 days of the graduate's initial employment, that the employee is lacking entry-level skills. These skills must be identified by the college as program exit competencies, and areas of deficiency must be specified.
6. The employer, graduate, division dean, job search assistance counselor, and appropriate faculty member will develop a written educational plan for retraining.
7. Retraining will be limited to nine credit hours related to the identified skill deficiency and to those classes regularly scheduled during the period covered by the retraining plan.
8. All retraining must be completed within a calendar year from the time the educational plan is agreed upon.
9. The graduate and/or employer are responsible for the cost of books, fees, and other course-related expenses.
10. The guarantee does not imply that the graduate will pass any licensing or qualifying examination for a particular career.
11. The program can be initiated by the employer or graduate, within 90 days of the graduate's initial employment, by submitting a written request to the chief academic officer.

COUNSELING SERVICES

Personal Counseling

The college's counseling program supports and assists students who have personal issues that impact their college experience. The college is aware of the interaction between personal development, emotional wellness, and success in academic pursuits.

Counseling Services offers accessible assistance in the areas of therapeutic intervention, prevention, and support. Staffed by licensed professionals and supervised interns, Counseling Services provides individual personal counseling, facilitates various support groups, sponsors personal growth seminars, and encourages awareness of issues of concern to both traditional and non-traditional students.

Counseling addresses a variety of issues, including:

- Alcohol and other drugs
- Anxiety
- Assertiveness
- Crisis intervention
- Depression
- Eating disorders
- Grief issues
- Relationships
- Stress management
- Trauma recovery

The counseling program offers crisis intervention, goal-oriented therapy, assessment, and referral services. The counseling staff adheres to the appropriate ethical and legal standards as required by their licensure. Contact with Counseling Services is confidential. There is no fee charged to students for counseling services. For additional information or assistance with counseling concerns, call SCC, 972.881.5779; CPC, 972.548.6615; or PRC, 972.377.1671.

Special Populations Support Services

The Promise Program is offered through Counseling Services to provide extra support and guidance to students who meet the definition of Special Populations. This definition includes students who are:

- Single parents, including single pregnant women
- Displaced homemakers
- International students or students with limited English proficiency
- Physically or mentally disabled
- Diagnosed with a learning disability and/or academically disadvantaged
- Pursuing a major or career that is non-traditional for their gender
- Mature adults returning to college and in transition

The program assists Special Populations students who are coping with major life transitions by providing career guidance, personal counseling, life skills development, and community referrals. The PROMISE Program's comprehensive support services help the transitioning student to re-enter the workforce and to contribute fully to the well being of their family and community.

For additional information about these services, please call 972.377.1088 or 972.881.5126.

EMERGENCY PROCEDURES

Safety and security is a concern for all members of the college community including students, college employees, and visitors. Possession of firearms or other lethal weapons on campus or at college-sponsored events is illegal, except for commissioned police officers as prescribed by law. See the "Student Code of Conduct" in the current Collin Student Handbook for detailed information.

In compliance with the Drug-Free Schools and Communities Act Amendment of 1989 (Public Law 101-226) and Texas House Resolution 2253 and Senate Resolution 645 (passed in 1987), the college forbids the unlawful delivery, manufacture, possession, sale, purchase, use, or distribution of illegal controlled substances (as defined in the Texas Controlled Substance Act), alcoholic beverages, steroids, inhalants, herbal/"natural" euphorants, look-alike products, substances referred to as "designer drugs," and the inappropriate or illegal use of over-the-counter or prescription medication at the college, on college property, at College Place Apartments, or while attending college sponsored activities on- or off-campus.

For more information, refer to the current Collin Student Handbook, or contact the Director of Public Safety (972.881.5142), Dean of Students, Director of Counseling, or Director of Human Resources.

Emergency Closing Of The College

If classes have been cancelled, an announcement will be made via the college's website (www.ccccd.edu); in addition, announcements will be made on local radio and television stations. A decision to cancel classes will usually be made by 4 p.m. for evening classes and by 6 a.m. for day classes.

Reporting Emergencies

If an emergency should arise on campus, report it to the campus Provost's Office or to the building liaison at the Courtyard Center. Contact faculty within the classroom if a problem should arise during a class. Emergency medical services will be notified for students when necessary.

If an emergency arises at an off-campus location, immediately notify a faculty member or contact emergency medical services as necessary.

FINANCIAL AID

As a service to Collin students, the Financial Aid Office administers a financial aid program that includes grants, loans, and part-time employment. Financial Aid officers are trained to assist students in realizing their educational goals. Aid is offered to eligible students who are registered by the college's official census date.

A primary purpose of the college's financial aid program is to

provide assistance for students who might otherwise find it difficult or impossible to attend college. All students are encouraged to apply for financial aid.

Students should not withdraw from college for financial reasons without first consulting with the Financial Aid Office. All financial aid students must become familiar with the standards of academic progress. For more information, look on the college website (www.ccccd.edu/studentservices/students.html).

Federal law requires a financial aid student to complete at least 60 percent of each semester. If the student completely withdraws before the 60 percent point in the semester, that student will need to repay a portion of the financial aid funds received. Contact the Financial Aid Office for complete information.

A financial aid student who earns all F's for the semester must have one instructor provide proof to the Financial Aid Office that the student was in an academically-related activity for at least 60 percent of the semester. Otherwise, that student will owe money back to a financial aid program.

Financial Aid Programs – Federal Assistance

Federal Pell Grant

Eligibility for the Pell Grant is based on the financial strength of the student and/or the student's family as well as the student's enrollment status (range: \$400 – \$4,050/year).

Federal Supplemental Educational Opportunity Grant (FSEOG)

The FSEOG provides assistance for eligible students who show financial need and are making satisfactory progress toward their educational goal. Priority is given to students demonstrating the greatest of financial need (range: \$300 – \$2,000/year).

Federal Work-Study (FWS)

Students demonstrating financial need may be considered for the work-study program. Students are employed to work at various jobs on campus or at other district sites. They are allowed to earn the amount designated in their award package (range: \$3,800 – \$4,800/year).

Federal Stafford Loan Program

This program permits a student to borrow money from a commercial lending agency without the need for collateral. The federal government guarantees repayment of the loan and pays interest on the subsidized amount borrowed until six months after the student graduates or ceases to be enrolled at least half-time. Eligibility is based on financial need. Variable interest rates are set each fiscal year, but will not exceed 8.25 percent. The interest rate for the 2004–2005 academic year was 2.77 percent. Students may borrow \$2,625 for the first year of completion in their program of study. During the second year, the maximum is \$3,500. The maximum amount a student may borrow depends upon eligibility, dependency status, year in school, previous student loans borrowed, and enrollment status for the year.

Federal PLUS Loans

Federal PLUS Loans are for parents who want to borrow money to help defray the cost of their children's education. Like Federal Stafford loans, Federal PLUS Loans are made from a lender such as a bank, credit union, or savings and loan association. Credit rates will vary. Parents may borrow up to the cost of the education, minus resources and aid. Interest rates for 2004-2005 were 4.17 percent.

Financial Aid Programs – State Assistance

Texas Public Education Grant (TPEG)

The TPEG program is a state financial aid program designed to assist students attending state supported colleges. Students must demonstrate financial need and be making satisfactory progress toward their educational goals. The actual amount of the grant varies depending upon the availability of funds to the college, the student's financial condition, and other aid the student is receiving (range: \$200 – \$2,200/year).

Texas Public Education – State Student Incentive Grant (SSIG)

Also known as LEAP and PSIG

SSIG, a state program, is based on the financial need of the applicant. Eligibility is determined by the college and is based on the availability of funds as well as need (range \$100 – \$1,000/year).

TEXAS Grant

Students graduating high school after December 1998 may be eligible for this grant if the following conditions are met:

- Texas resident
- Never convicted of a felony
- Graduated high school in the recommended or distinguished programs
- Have need as determined by the federal form (FAFSA)
- Be enrolled at least half-time

This grant covers the cost of tuition and fees and is renewable during the undergraduate career as long as the student maintains a cumulative 2.5 grade point average and completes at least 75 percent of the coursework. Additionally, the student must maintain academic progress. Please refer to the Institutional Policy of Satisfactory Progress in this section.

TEXAS Grant II

Community college students working on an associate degree may be eligible for this grant if they:

- Are not eligible for the TEXAS Grant
- Are a Texas resident
- Enroll at least half-time, and
- Have an estimated contribution as determined by FAFSA of \$2,000 or less.

Additionally, students on this grant become eligible for the TEXAS Grant once they transfer to a university. To remain eligible, the student must maintain a 2.5 cumulative grade point average and complete at least 75 percent of the coursework.

Texas B-On-Time Loan

The Texas B-On-Time Loan program is to provide eligible Texas students no-interest loans to attend colleges and universities in Texas. The special benefit of this loan program is that if the student meets specified goals, the entire loan amount can be forgiven upon graduation. Contact the Financial Aid Office for complete information.

Eligibility Requirements:

- Texas resident
- Graduated high school no earlier than 2002-2003 under the recommended program
- Earned an associate degree from an eligible institution no earlier than May 1, 2005
- Not earned a bachelor's degree
- Enroll full-time in an undergraduate or certificate program
- Completed a FAFSA and be eligible to receive aid
- Meet the school's satisfactory progress policy the first academic year

Complete at least 75 percent of the attempted semester credit hours and maintain a cumulative GPA of at least 2.5 in subsequent academic years

Additional Financial Aid Information

Many of the financial aid programs listed are under constant federal and state review and are subject to change. For additional information on any of the above loans and grants, please contact the Financial Aid Office.

Students may apply for financial aid by completing the Free Application for Federal Student Aid (FAFSA). The FAFSA is available in the Financial Aid Office and in most high school counseling offices, or from FAFSA's website at www.fafsa.ed.gov.

The college's Title IV number is 016792.

Priority deadlines are:

- Fall Semester – June 1
- Spring Semester – November 1
- Summer Terms – March 1

Institutional Policy Of Satisfactory Academic Progress For Financial Aid

Federal law requires that to receive financial aid, students must be making satisfactory progress in their course of study. Collin requires the following standards.

Incremental Measurement of Progress

Each semester, the Financial Aid Office evaluates the satisfactory academic progress of Collin students that receive financial aid, including grade point averages. The number of hours completed are checked at least once each academic year.

Completion Requirements

1. The maximum number of hours a student may attempt is limited to 90 credit hours. A student will be deemed making progress once demonstrating he/she will graduate within 150 percent of his/her degree program.
2. Enrollment status (hours attempted) is determined by the student's enrollment on the census date (12th class day during the fall and spring semester, fourth class day during the summer sessions).
3. Twelve or more credit hours is considered full-time. Nine to 11 credit hours is considered three-quarter-time. Six to eight credit hours is considered half-time.
4. Students enrolled on a full-time status must complete 24 semester credit hours per academic year [an academic year equals two regular (16-week) semesters].
5. Students enrolled less than full-time must complete a proportionate number of hours per academic year (e.g., three-quarter-time = 18 credit hours; half-time = 12 credit hours).
6. Courses in which students earned a final grade of A, B, C, D, or F are used to compile hours completed. Withdrawals, incomplete courses, repeated courses, and noncredit remedial coursework are counted toward attempted hours. Students who withdraw from all classes are not eligible for financial aid until an equal number of hours are completed at the student's expense.

Grade Point Average (GPA) Requirements

1. A student who has a cumulative GPA of 2.0 or above and meets the Completion Requirements is considered to be making satisfactory academic progress.
2. A student who has attempted less than 30 semester hours with a first-time cumulative GPA of 1.67 or above is considered eligible for financial aid for one semester.

Failure to Meet the Standards of Academic Progress

1. Any student on academic suspension is not eligible for financial aid.
2. A student who withdraws from the college while receiving financial aid is not eligible for additional financial aid until an equal number of hours are completed at the student's expense.
3. A student who is denied aid under this policy is again eligible when the student documents that he/she meets the Completion and Grade Point Average Requirements.

Appeal Process

1. Student aid regulations allow a student to appeal an adverse satisfactory academic progress finding based on: (a) the death of a relative, (b) an injury or illness of the student, or (c) other special circumstances.
2. A student who wishes to appeal shall do so in writing to the

Financial Aid Office within 21 calendar days of notice of the adverse finding.

3. A student whose appeal is denied by the Financial Aid Office may appeal to the Financial Aid Task Force. The student must provide written notice of intent to do so within 14 calendar days of the notice of the denial.
4. Subsequent to the denial by the Financial Aid Task Force, a student may seek an administrative appeal from the Vice President of Student Development.

Financial Aid Programs – Scholarships

Collin Foundation Scholarships

Academic scholarships for Collin students are awarded through the college Foundation, Inc. Numerous scholarships are available to new and continuing students at Collin. These scholarships are designed to encourage and assist students in pursuing academic excellence at the college. Scholarships are awarded for several reasons, including academic achievement, merit, or financial need. All students are actively encouraged to apply for Foundation scholarship awards.

The deadline for applications is the last Friday in May for the following academic year and scholarship applications are available online. Foundation scholarship information is available in the Foundation Office (CPC-B216), the Financial Aid Office (CPC-A111, PRC-F141, SCC-G119), and on the “Scholarship” bulletin boards at each campus. For further scholarship information, call 972.548.6612 or visit the Foundation website at foundation.ccccd.org.

Collin Athletic Scholarships

Scholarships are also available for men’s and women’s basketball and tennis.

Collin Departmental Scholarships

Art, dance, music, photography, and theatre scholarship information is located in the Foundation Office, the Financial Aid Office, and on the “Scholarship” bulletin board at the CPC, PRC, and SCC campuses.

Financial Aid Programs – Other

Waivers

State tuition waivers provide qualifying students with exemptions from certain tuition and fee charges in public colleges. Contact either the Financial Aid Office or the Admissions and Records Office for additional information or for a specific waiver. A few of the state waivers are:

Financial Aid Waivers

- Aid for Dependent Children
- Blind/Deaf Students
- Children of Disabled Firemen and Peace Officers
- Children of Prisoners of War or Persons Missing in Action
- Early High School Graduation
- Firemen Enrolled in Fire Science Courses

- Hazlewood Act
- Highest Ranking High School Graduates
- Orphans of National Guard Members

Admissions Waivers (Admissions and Records Office)

- Ad-Valorem Tax
- Concurrent Enrollment
- Dual Agreement (Reciprocal Agreement) – Dallas County
- Dual Agreement (Reciprocal Agreement) – Grayson County
- Contract Training for Out-of-District
- Senior Citizen

Veterans Educational Benefits

Students requesting Educational Benefits at Collin should submit all documentation to the Financial Aid/Veterans Affairs (VA) Office at least six weeks prior to registration, if possible. The steps necessary to do this include:

1. Gain admission to Collin through the Admissions and Records Office.
2. Submit a degree plan request and all required VA forms to the Financial Aid/Veterans Affairs Office.
3. Ensure all transcripts from prior institutions are submitted to the Degree Plan Coordinator for transfer evaluation.

PLEASE NOTE: Only after an official degree plan is on file will notification of enrollment be sent to the Veterans Administration. Only classes that are on the official degree plan will be paid for. It is the student’s responsibility to ensure the degree program selected is a program approved by the Texas Workforce Commission and the Department of Veterans Affairs.

Continuing students who have previously received benefits must notify the VA Advisor in writing at the time of registration, or as soon thereafter as possible. Notification may be submitted at any Collin Financial Aid/Veterans Affairs Office. If there has been a break of more than two regular 16-week semesters, additional VA documents will be required as well as transcripts from any schools attended during the break.

Any class that is recommended, but not required by a degree program, cannot be certified with the VA. Additionally, classes required for graduation at another institution, but not by Collin, cannot be certified.

It is assumed that continuing students wish to be certified for any subsequent enrollment unless they notify the Financial Aid/Veterans Affairs Office in writing. Though every effort is made to identify continuing students, it is still the responsibility of the student to notify the Veteran Certifying Official in writing at the time of enrollment. Requests for certification of a prior term will be processed in accordance with standard VA policy and will not be processed ahead of the normal scheduled workload for that term.

Students receiving veterans’ benefits must maintain satisfactory academic progress while attending Collin. Satisfactory academic progress is defined as maintaining a 2.0 cumulative GPA. Students

failing to make satisfactory academic progress will be reported to the Veterans Regional Office as being on academic suspension at the end of the second consecutive semester when the cumulative GPA remains below 2.0. Developmental courses will be included to determine the cumulative GPA.

A grade of D or better received at Collin, or any other college, is a passing grade and may not be repeated for benefits. If a non-punitive grade of I is assigned to a course and is not converted to a punitive grade, this will be reported to the Veterans Affairs Regional Office within 30 days, and benefits will be reduced accordingly. Students receiving a grade of F may repeat the course with benefits one time at Collin.

HEALTH SERVICES

The college is dedicated to the total well-being of its students. Health fairs, alcohol and drug awareness programs, aerobic and other fitness courses are geared toward student wellness. Although the college does not employ a nurse or physician, first aid kits are available at the Information Center, Fitness Center, Physical Plant, Student Activities Office, and academic division offices on each campus.

Bacterial Meningitis—Important Information

This information is being provided to all new college students in the state of Texas. Bacterial Meningitis is a serious, potentially deadly disease that can progress extremely fast—so take utmost caution. It is an inflammation of the membranes that surround the brain and spinal cord. The bacteria that causes meningitis can also infect the blood. This disease strikes about 3,000 Americans each year, including 100-125 on college campuses, leading to 5-15 deaths among college students every year. There is a treatment, but those who survive may develop severe health problems or disabilities.

What are the symptoms?

- High fever
- Rash or purple patches on skin
- Light sensitivity
- Confusion and sleepiness
- Lethargy
- Severe headache
- Vomiting
- Stiff neck
- Nausea
- Seizures

There may be a rash of tiny, red-purple spots caused by bleeding under the skin. These can occur anywhere on the body.

The more symptoms, the higher the risk, so when these symptoms appear seek immediate medical attention.

How is Bacterial Meningitis diagnosed?

- Diagnosis is made by a medical provider and is usually based on a combination of clinical symptoms and laboratory results from spinal fluid and blood tests.

- Early diagnosis and treatment can greatly improve the likelihood of recovery.

How is the disease transmitted?

The disease is transmitted when people exchange saliva (such as by kissing, or by sharing drinking containers, utensils, cigarettes, toothbrushes, etc.) or come in contact with respiratory or throat secretions.

How do you increase your risk of getting Bacterial Meningitis?

- Exposure to saliva by sharing cigarettes, water bottles, eating utensils, food, kissing, etc.
- Living in close conditions (such as sharing a room/suite in a dorm or group home).

What are the possible consequences of the disease?

- Death (*in 8 to 24 hours from perfectly well to dead*)
- Permanent brain damage
- Kidney failure
- Learning disability
- Hearing loss, blindness
- Limb damage (fingers, toes, arms, legs) that requires amputation
- Gangrene
- Coma
- Convulsions

Can the disease be treated?

Antibiotic treatment, if received early, can save lives and chances of recovery are increased. However, permanent disability or death can still occur.

Vaccinations are available and should be considered for:

- Those living in close quarters
- College students 25 years old or younger

Vaccinations are effective against 4 of the 5 most common bacterial types that cause 70 percent of the disease in the U.S. (but does not protect against all types of meningitis).

Vaccination take 7-10 days to become effective, with protection lasting 3-5 years. The cost of vaccine varies, so check with your health care provider. Vaccination is very safe—most common side effects are redness and minor pain at injection site for up to two days.

How can I find out more information?

- Contact your own health care provider.
- Contact your local or regional Collin County Health Care Office at 972.548.5532.

Contact web sites: www.cdc.gov/ncidod/dbmd/diseaseinfo or www.acha.org.

Immunizations

Due to recent measles outbreaks, the Texas State Board of Health is requesting students born after January 1, 1957, confirm appropriate immunizations or immunity to the following diseases: tetanus/diphtheria, mumps, measles, and rubella.

RECRUITMENT AND PROGRAMS FOR NEW STUDENTS

Recruitment and Programs for New Students offers a variety of services for new and prospective students. Programs conducted by this department include:

New Student Orientation

All first-time students to Collin County Community College District should attend New Student Orientation. The purpose of orientation is to provide you with a comprehensive overview of available services, resources, and opportunities as well as assist you in a successful collegiate career.

New Student Orientation is a one-day orientation program designed for students who have graduated from high school within the past three years.

New Student Orientation for Non-Traditional Students targets those returning to college after an extended break and adult students starting college for the first time. This intensive orientation is conveniently held in the evening.

On-line Orientation is also available. This program is designed for students who are enrolled in distance education courses.

For additional information including dates and reservation, please call 972.377.1750, e-mail orientation@ccccd.edu, or visit our website at www.ccccd.edu/orientation.

Special Admissions

The Special Admissions program is designed for high school students (and high school aged students, no longer in high school) who are academically advanced. Students 16 years of age or older at the high school junior level or above who meet Collin's Special Admission criteria are encouraged to participate. Participating students must be 16 on or before the census date for the term in which they intend to enroll. The same criterion applies to home school or private high school students. Students under 16 years of age may petition the Director of Recruitment and Programs for New Students or the Registrar for college admission. Special Admission guidelines and requirements are listed on page 15.

Other Services Include:

- Campus Tours (Group and Individual)
- College 101
- College Day/Night Programs
- GO Centers
- Mentor Program
- Parent Leadership Program
- Spectrum: Student Ambassadors for Diversity
- Summer Institute
- Transfer Express
- Youth Leadership Academy

For additional information or assistance with these programs, please call 972.377.1750 or visit our website www.ccccd.edu/student-services/students.html.

STUDENT LIFE

Programs

The Office of Student Life strives to enhance student learning and development. It is the goal of Student Life to provide co-curricular civic, educational, leadership, and social programs. Students can also join student organizations and committees, work on special projects, or enjoy social activities with friends.

Student Life offers a wide variety of opportunities to enrich students' college experience including: educational programs; entertainment and cultural programs; field trips; guest speakers; leadership training; officer training; social, cultural, and civic events; and student organizations.

Collin has opportunities for campus and community involvement through recognized student organizations. The purpose of these organizations varies from honor societies to political, religious, service, and social groups. Currently enrolled students may form student organizations by following the procedures outlined in the current Student Organizations Policies and Procedures Manual (SOPPM). A copy of the manual may be obtained from the Office of Student Life. New or reforming organizations may not officially meet or hold an event until approved by the Office of Student Life

Involvement in Institutional Governance

Students are encouraged to become involved with institutional governance by expressing their thoughts and feelings about college policies, procedures, and activities. The president, vice presidents, and all college employees are interested in student ideas, opinions, and suggestions.

Through participation in the Student Government Association, college task forces, events with the college president, and personal conversations with faculty and staff, students are encouraged to communicate their needs, desires, and proposals for change.

See Student Life, www.ccccd.edu/studentactivities/studentact.html, for detailed information on how to get involved in student activities, student organizations, and institutional governance.

STUDENT CODE OF CONDUCT

Collin students are both citizens and members of the academic community. As citizens and students they enjoy the same freedom of speech, peaceful assembly, and right of petition that other citizens enjoy. As members of the academic community, they are subject to the obligations which are theirs by virtue of this membership.

The college expects its students to conduct themselves in such a way as to reflect favorably upon the institution they represent. There are two basic standards of behavior required of all students:

1. They shall adhere to college regulations, codes, and administrative rules; board and district policies; municipal county, state, and federal laws; and
2. They shall not interfere with or disrupt the orderly educational processes of the district.

Students are entitled to only those immunities or privileges before the law as enjoyed by other citizens. For more information, see the *Collin Student Handbook* or contact the Office of the Dean of Students.

STUDENTS WITH DISABILITIES

All campuses are accessible to all individuals with disabilities. Sign language interpreters, adaptive equipment, and academic and personal advising are provided to make college life more convenient.

The Special Needs Center, located within the Learning Resources Center, is equipped with low-vision readers, a scanner, and a voice synthesized speech program on IBM-compatible personal computers.

Contact the ACCESS Office, SCC-G200, 972.881.5898 or 972.881.5950 (V/TTY) for information about Collin's facilities and specialized services.

TUTORING

Small group and online tutoring is available at no charge to Collin students on a first-come, first-serve basis. Private tutoring is available at the expense of the student. For tutoring services or to apply to be a tutor, contact Michele Boverie, tutor coordinator, at SCC-G141, 972.881.5128

EDUCATIONAL SERVICES

and opportunities



ADVANCED ACADEMIC OPPORTUNITIES

The Center for Advanced Study in Mathematics and Natural Sciences (CASMNS)

Based at Spring Creek Campus, the Center includes advanced opportunities in biology, chemistry, mathematics, and physics. Students must have a 3.0 GPA to be eligible to enroll in CASMNS activities.

Upon successful completion of 12 or more credit hours from the designated courses, students will receive special recognition by the college, and a notation will be included on their official Collin transcript.

For further information, see page 72 or contact the Mathematics and Natural Sciences Division at 972.881.5880.

Honors Institute

The Honors Institute at Collin is designed to provide a challenging learning experience for students with advanced academic skills. In small classes (maximum 18 students) advanced and highly motivated students engage in discussion, research, and creative projects geared to their special abilities and commitment to learning. In an honors class of thoughtful and communicative participants, interaction among students is fundamental. Among other benefits to students are an honors course designation on the transcript and possible qualification for honors scholarships. Students must have a 3.5 GPA to be eligible for enrollment in honors courses.

Inquiries should be directed to 972.758.3812 or the Academic Advising Department at 972.881.5778 or visit the website at <http://iws2.ccccd.edu/honors>.

Phi Theta Kappa

Phi Theta Kappa (PTK) has recognized student academic excellence in two-year colleges since 1918 and has become the largest and the most prestigious honor society serving two-year college students around the world. Phi Theta Kappa has always maintained fidelity to its founders' commitment to provide enrichment in four hallmarks: scholarship, leadership, service, and fellowship.

Phi Theta Kappa features some of the nation's finest educational programs for community college students. These programs form a cornerstone of Collin's successes in nurturing intellectual curiosity, good citizenship, and leadership potential. Many scholarship opportunities are available including the USA All American Scholarships and the Guistwhite Scholarship Program.

Students who meet chapter criteria will receive invitations during the fall and spring semesters. For more information, visit the chapter website at <http://ptk.ccccd.edu> and the International site at www.ptk.org.

Psi Beta

The national honor society for community college psychology students, Psi Beta, combines academic excellence with community service. Members of Psi Beta participate in a wide range of activities including academic pursuits, community volunteer programs, and social events.

In recent years, the local chapter at Collin has expanded those activities to include major research projects that have earned several members of Psi Beta national recognition at major conferences for both two and four-year institutions. Members of Psi Beta also function in a variety of leadership roles throughout the college and have been honored for such efforts.

The chapter has grown quickly and achieved some superb standards of excellence, all of which can best be summarized by the college's recognition of Psi Beta as the number one student organization at the college last year. To learn more about the chapter, visit the website at <http://psibeta.ccccd.edu>.

AIR FORCE ROTC

The Division of Business and Computer Science administers the offering of Air Force ROTC courses in the Division of Aerospace Studies and University Courses. Classes are currently taught at the UNT Air Force Detachment, but you register and pay via Collin. Academic classes are open to all students.

Introduction

The Air Force ROTC Program develops skills and provides education vital to the career Air Force officer as an integral part of the Collin curriculum. Active-duty and reserve Air Force personnel provide all classroom instruction and program administration.

The program is open to male and female students. Freshmen may enroll in the four-year program, and sophomores through graduate students with at least two to three undergraduate or graduate academic years remaining may apply for the two- or three-year program (two-year program only open to certain engineering/nursing majors). Deviations from these two programs must be approved by the chair of the division. Students who complete any program with at least a bachelor's degree may be awarded commissions as U.S. Air Force officers.

Programs of Study

Four-Year Program Eligibility Requirements (transfers to any 4-year school when completed at Collin)

1. Full-time student.
2. In sound physical condition.
3. Of good moral character.
4. Able to complete the Professional Officer Course (POC) before reaching the age of 29? years if programmed for flying training, or 34 years if programmed for non-flying training.
5. Able to meet eligibility requirements 2-4 of the two-year program below after the first two years of Air Force ROTC training (General Military Course). The freshmen and sophomore classes are open to any student regardless of citizenship and fitness level. Only those that meet the following requirements may advance to the last 2 years.

Enrollment procedures for the first two years of Air Force ROTC, known as the General Military Course (GMC), are the same as for any other course at Collin. After completing the GMC, students who wish to compete for the last two years of the program, known as the Professional Officer Course (POC), must attain satisfactory results on the Air Force Officer Qualifying Test and physical fitness test, as well as an Air Force medical examination.

Once these requirements have been met, students must attend four weeks of paid summer training at an Air Force base. As a POC, each student may compete to receive a tax free stipend, for the duration of the school year. Juniors receive \$350 per month and seniors receive \$400 per month. As long as their GPA is above 2.0 and they will be 30 or younger the year they graduate, POC students receive \$1500 for tuition and fees and \$225 for books during each semester. Each student accepted to the POC must become a member of the Air Force Reserve (Obligated Reserve Section).

Two-Year Program Eligibility Requirements

1. Meet eligibility requirements 1-5 of the four-year program.
2. U.S. citizen
3. Have at least a 2.0 cumulative grade point average.
4. Have at least two undergraduate or graduate academic years remaining at UNT.
5. Attain a satisfactory score on the Air Force Officer Qualifying Test pass a physical fitness test and pass an Air Force medical examination.
6. Complete a paid five-week summer training course at an Air Force base.

Once students in the two-year program compete successfully for a slot in the POC, they compete for the same stipend as the cadets in the four- and three-year program. Each student accepted into the two-year program must become a member of the Air Force Reserve (Obligated Reserve Section).

Leadership Laboratory

A required corresponding level leadership laboratory is taken an average of two hours per week throughout the student's enrollment in AFROTC. Instruction is conducted within the framework of an organized cadet corps with a progression of experiences designed to develop each student's leadership potential.

Leadership Laboratory involves a study of Air Force customs and courtesies, drill and ceremonies, career opportunities in the Air Force, and the life and work of an Air Force junior officer. Students develop their leadership potential in a practical, supervised laboratory, which typically includes field trips to Air Force installations throughout the United States.

AFROTC Physical Training (PT) Program

Mandatory PT Session two hours per week. One with unit (after LLAB) the other on your own.

PT involves enhancing the fitness level of cadets and prepares them to meet AFROTC and Air Force standards. Motivate cadets to pursue a physically fit and active lifestyle. Improve both safety and efficiency of physical training within AFROTC.

Special Consideration to Veterans

Students with at least six months of active military service may be granted waivers on a portion of the general military course. For information, consult the Aerospace Studies Office.

Uniforms

Uniforms and textbooks for AFROTC courses are issued at no cost to cadets.

Scholarship Programs

Scholarships; available to qualified students in the four-year, three-year, and two-year programs provide full tuition, in some cases fees, a textbook allowance, and a tax-free subsistence allowance between \$250 and \$400 per month. Competition is based on SAT I or ACT results, high school or college academic record, and extracurricular and athletic activities. For information, contact the Aerospace Studies Office.

THE ARTS GALLERY

The mission of THE ARTS gallery is to serve as a center for aesthetic exploration through the creative processes of fine arts faculty and students, professional artists, and arts organizations. By presenting quality, interdisciplinary art exhibitions and events THE ARTS gallery enhances an understanding of the arts within the college and the community and enriches individual lives.

Hours of Operation

(fall and spring semesters; check for summer hours)

Mondays – Thursdays	9 a.m. – 8 p.m.
Fridays	9 a.m. – 5 p.m.
Saturday	10 a.m. – 2 p.m.

For further information on the gallery or its current shows, please contact THE ARTS gallery at 972.881.5873 or the Director of Galleries, Vicki Mayhan, at 972.881.5145.

BOOKSTORE

The bookstore is an auxiliary enterprise of the college. Textbooks are selected by the faculty and ordered through the bookstore. Textbooks are priced at industry standard. New books are priced at a 25 percent margin. Used books, which are priced at 75 percent of the new book price, are purchased from various sources. For information on store hours, call 972.548.6682 (CPC), 972.985.3710 (CYC), 972.377.1682 (PRC), or 972.881.5681 (SCC) or visit the bookstore website at http://bookstore.ccccd.edu/wm_home.htm.

Textbook And Language Tape Refunds

Students who change courses or select the wrong books and language tapes may return them for a refund under the following conditions:

1. Books or language tapes are returnable during the first 10 calendar days of the fall and spring semesters and the first five days of the summer semesters for a full refund. Books purchased for Wintermester and Maymester may be returned by the second class day for a full refund.
2. Students must have their original cash register receipt to receive a refund. No cash refunds given on credit card sales.
3. Students should not write in new books until they are certain they have the correct textbooks. New books that are soiled, damaged, or have been written in will not receive a full refund.
4. Books and cassette tapes in shrink wrap (plastic or vinyl packaging) must be returned unopened in the original package. Books cannot be accepted if the shrink wrap has been removed.
5. Defective books, missing pages, etc., purchased from Collin bookstores will be replaced at no charge during the semester in which they were purchased.

Software Returns

Software that is unopened may be returned with original receipt no later than two weeks from date of purchase. Software that is opened is not returnable.

Textbook Shortages

The bookstore makes every effort to have the required textbooks by Registration. For various reasons, there may be shortages: out-of-print or out-of-stock by the publisher, unexpected increases in enrollment, late placement of orders by the faculty, missing shipments, and human error. Every attempt is made to minimize these problems.

Graphing Calculator Buyback

The bookstore will buy your used graphing calculator during final exams of each semester. Fifty percent of the original purchase price will be paid subject to the following conditions:

1. Calculator must be in clean, working condition with all cords and manuals.
2. Calculators must be required for use by the college during the next semester.
3. Calculators cannot be bought back if the store is overstocked or if needs for the following semester have been filled.
4. Bookstore makes the final decision regarding model, condition, and quantity of calculators bought back.

Textbook Buyback

Books are bought back every day at their current market value. During final exams each semester up to 50 percent of the original purchase price will be paid, subject to the following conditions.

1. Books must be in clean, salable condition.
2. Books must be required for use by the college during the next semester.
3. Books must be current editions.
4. Workbooks, lab manuals, study guides, mass-market paperbacks, books with torn covers, excessive markings and water damage, books with perforated pages, and books containing diskettes cannot be bought back.

Books cannot be bought back if the store is overstocked or if needs for the following semester have been filled.

The instructor, not the bookstore, decides whether each textbook will be used again. Unless an instructor tells the bookstore he will use that title again, the bookstore must assume it will not be used. Books falling into this category can be bought from students only at used wholesale prices. Old editions have no value and cannot be resold even to wholesalers. Some courses at the college are not taught every semester and students may wish to sell their books when that course is offered again, provided the faculty member requires the same books.

Payment/Check Cashing

With proper identification, checks may be cashed for \$10 with or without a purchase. Mastercard, VISA, and Discover cards, as well as cash and checks, are accepted as payment. When writing a check or using a credit card, students must also show a Collin Student ID card.

CENTER FOR SCHOLARLY AND CIVIC ENGAGEMENT

The Center for Scholarly and Civic Engagement (CSCE) brings together faculty, students and community partners involved in academic initiatives that focus on scholarship, leadership, and community involvement.

This interest in community service serves as a catalyst to create deeper learning for students, while also instilling democratic values of citizenship and civic engagement.

The Center fosters collaboration within existing programs by integrating activities and communication between programs and by serving as a clearinghouse for the following:

Center for Advanced Study in Mathematics and Natural Sciences (CASMNS)

- Emerging Scholars
- Honors Institute
- Learning Communities
- Phi Theta Kappa
- Psi Beta
- Service-Learning – Texas Campus Compact Regional Center
- Student Leadership Academy
- Student Government Association

For information about the Center, call 972.548.6739, or go to www.ccccd.edu/CSCE.

CHILD DEVELOPMENT LAB SCHOOLS

Collin provides Child Development Lab Schools at the Spring Creek and Central Park campuses. Both locations serve as laboratory sites for child development and social sciences academic courses.

Students, faculty, staff, and community members may enroll their children in either lab school as space permits. The children's program is designed to promote physical, social, emotional, and cognitive development in a nurturing and supportive environment. Daily activities are based upon each child's needs and interests.

For more information or a fee schedule, please call the CPC lab school at 972.548.6852 or the SCC lab school at 972.881.5945.

CISCO SYSTEMS NETWORKING ACADEMY

Collin's Cisco Systems Networking Academy teaches students in the following authorized Cisco and Sponsored Curriculum Programs: CCNA (Cisco Certified Network Associate), CCNP (Cisco Certified Networking Professional), Fundamentals of Network Security, Fundamentals of Wireless LANS, IT Essentials I and II, and UNIX. The comprehensive online curriculum and intensive, skills-based learning incorporated in the Cisco Academy courses provide a student with the opportunity to obtain the knowledge and skills to pass the associated Cisco certification exams or aligned CompTIA certification exams.

There are four CCNA courses that teach basic networking, routing, and switching concepts and must be taken in sequence. Comprehensive preparation for CCNA certification requires completion of all four CCNA courses. There is no prerequisite for entry into CCNA 1, but basic computer skills and familiarity with Internet concepts are useful.

The four CCNP courses teach advanced routing, switching, remote access, and troubleshooting. To enroll in the first CCNP

course, a student must hold a current CCNA certificate or have successfully completed CCNA 1–4 at a Cisco Systems Networking Academy. Each CCNP course maps to an associated certification exam. To become CCNP certified, a candidate must pass all four CCNP certification exams.

The Fundamentals of Network Security course teaches Cisco IOS Router security and PIX Firewall security. To obtain Cisco Firewall Specialist certification a candidate must pass two associated certification exams. Current CCNA certification or successful completion of CCNA 1–4 at a Cisco Systems Networking Academy is required to enroll in the Cisco Fundamentals of Network Security course.

The Cisco Fundamentals of Wireless LANs course has no prerequisites, but configuration experience on Cisco routers or switches is recommended. Cisco Wireless LAN Support Specialist certification may be obtained by passing the associated certification exam.

The Cisco Sponsored Curriculum courses, IT Essentials I, IT Essentials II, and UNIX teach valuable hardware and software skills. There are no prerequisites for IT Essentials I or UNIX. Certification through CompTIA or Sun may be obtained by passing the appropriate certification exam.

Collin's Cisco Academy courses are offered in a variety of formats to meet student needs including 8-week Express, 8-week Blended Distance Learning, and Daily Flex Entry. Blended Distance Learning courses use a combination of web sessions as well as on-campus sessions. Daily Flex Entry courses allow a student the opportunity to enroll throughout the semester, up to a specified date. Cisco Systems Networking Academy courses may be found in "Class Schedules," on the college website or in the printed Collin Schedule of Classes.

For additional information on Collin's Cisco Systems Networking Academy, please call the Engineering and Emerging Technologies Division at 972.377.1715.

CONTINUING EDUCATION AND WORKFORCE DEVELOPMENT

Collin County Community College District is dedicated to presenting dynamic and flexible educational programs to the community throughout our geographical area. The college strives to make programs readily accessible and bring learning opportunities to the public as conveniently and economically as possible.

Learning goes beyond initial career preparation, traditional concepts of full-time study and program degree completion and encourages education renewal. Collin's Continuing Education and Workforce Development Division (CEWD) provides learning opportunities for adults to develop their personal and professional potential and upgrade job-related skills.

The CEWD provides services that encompass a broad range of purposes:

- Addressing adults' career needs by helping them to cope with the explosion of new information and techniques, work toward job

advancement, or move into a new career.

- Providing job-specific customized training for use by business and industry with curricula relevant to needs of the local economy.
- Contributing to the growth and development of local business and industry through economic development activities on local, state, and national levels.
- Responding to the non-academic or extracurricular interests and needs of adults by providing a sufficient number of personal development courses.
- Providing courses for continuing professional education.
- Facilitating the interaction between the college and the community.

Each of these specific purposes within the CEWD relates to the purpose of promoting the philosophy of "lifelong learning" at Collin. The college's flexible continuing education program offers courses geared to professional development. Course material is adapted to the needs of the particular groups of participants.

Continuing Education Courses

The CEWD publishes a schedule each semester offering approximately 600 courses pertaining to business, professional, and personal development.

Continuing Education Units

The CEWD offers courses which award credit or Continuing Education Units (CEUs), depending upon the class. CEUs are nationally recognized to record satisfactory completion of certain approved occupationally related programs. Courses are offered throughout the county at a variety of sites depending on the types of courses and availability of facilities.

For more information on how the CEWD can be your connection to lifelong learning, please call 972.985.3750.

Small Business Development Center

The Small Business Development Center (SBDC), a partnership between the U.S. Small Business Administration and Collin, promotes the economic health and success of small businesses in Collin County. The SBDC provides free, in-depth small business counseling as well as seminars and workshops on topics relevant to established, new, and potential small business owners. For further information, call 972.985.3770.

Business Solutions Group

The Business Solutions Group (BSG) responds immediately to meet the current demands of business, education and industry. BSG provides answers to workforce development needs, helping companies gain a competitive edge. Services include: one-on-one consulting, needs analysis, skills assessments, customized training, and convenient delivery on site or at one of Collin's campuses. For further information, call 972.599.3130.

Center for Workforce and Economic Development

The Center for Workforce and Economic Development (CWED) is proactive in seeking grant funds to assist in the workforce and economic development of Collin County and the north east Texas region. Through partnerships with economic development organizations and collaboration with industry partners, the CWED assists local businesses with workforce training funded by federal, state, and local agencies. For further information, call 972.599.3105.

DEVELOPMENTAL EDUCATION

Developmental Education courses are designed to provide students with the basic skills needed to achieve success in college-level courses and to pass TSI (Texas Success Initiative). Courses are offered in mathematics, reading, writing, and English as a Second Language. The instructional formats vary and include computer-based, lecture, live inter-active, on-line, and self-paced. If basic skills assessment scores indicate that a student would be better prepared by taking a developmental education class prior to enrolling in a college-level class, the student must enroll in the developmental class.

Developmental classes and other support programs are specifically designed to help students gain the skills and confidence needed to successfully complete credit courses. All of the developmental disciplines (mathematics, reading, writing, and English as a Second Language) are designed to provide the skills tested on TSI.

In addition to the courses, Developmental Education also offers study skills seminars that teach students basic study and test-taking skills. A schedule of these free seminars is published each semester and copies are available at the Information Center on each campus. Call the Developmental Education Office at 972.881.5720 for additional information.

DISTANCE LEARNING

In an effort to accommodate the wide array of student schedules and learning styles, Collin provides several types of distance learning credit courses. These courses are offered through various methods of delivery: online, telecourses, and video check-out courses.

Distance learning courses may apply toward associate degree requirements. Many fit into certificate program requirements and the majority fulfill requirements for baccalaureate degrees. Students are encouraged to visit with an academic advisor to verify that a specific distance learning course will transfer into their designated college or university's bachelor's degree program.

Registration for a distance learning course is the same as for any other course; however, for some courses, students will be required to attend a mandatory on-campus orientation. Consult the current *Collin Schedule of Classes* or <http://online.ccccd.edu> for available distance learning courses.

Web-based courses offer students the flexibility to obtain their education on their timetable. Instructional materials, readings,

assignments, and in some cases, class discussions may be accessed whether students are at home, at work, on the road, or on vacation. Online courses require the same commitment of time as our on-site courses. Due to their unique method of delivery, these courses require maturity, self-motivation, and self-discipline to complete them successfully. It is mandatory that you review the course websites as well as the following website prior to enrolling: <http://online.ccccd.edu>.

Telecourses and live interactive courses are credit courses offered through instructional television and video. They may be viewed on Comcast cable television, Channel 39 (Plano and Richardson only), Channel 71 (Frisco and The Colony), or Channel 75 (Allen and McKinney). During live televised courses, students may call the instructor with questions via telephone. Students may also videotape the course for home viewing at a later date.

Video checkout courses are non-classroom, video-supported courses utilizing texts, study guides, and video tapes. Some students enrolled in video checkout courses are required to attend an orientation session. Videotapes for these courses will be available for checkout in the LRC after the orientation session meets. Students may checkout the videos for the entire semester.

EMERGING SCHOLARS

Future leadership is the heart of the Emerging Scholars program at Collin. Each year, professors identify students who excel and show outstanding scholarship potential for recognition as Emerging Scholars.

The achievements of students who are acknowledged as Emerging Scholars serve as benchmarks for success among their peers, elevating them to leadership status. Thus, Emerging Scholars assume service roles by assisting their peers as tutors in mathematics, science, writing, language labs, and other areas.

Collin Emerging Scholars have gone on to become solid examples of academic excellence. In the past few years, over 20 emerging Scholars have received Redman Scholarships, the most prestigious scholarship available at the University of Texas at Dallas. In addition, several have advanced to medical school.

EXPERIENTIAL LEARNING LABS

A variety of learning laboratories are in use at the college to facilitate experiential learning by students, including the American Sign Language Laboratory, the Computer Writing Classroom, the Math Lab, the Student Media Workshop, and the Writing Center.

Alternative Learning Centers

The Alternative Learning Centers (ALC) provide alternatives to traditional classroom learning and instruction through the innovative use of technology. The ALCs house computer laboratories and classrooms, as well as specialized learning labs such as the Science Place.

The ALC can assist any discipline in utilizing technology to augment traditional classroom instruction. Currently, English, foreign

language, and humanities classes are taught using the computer labs. The Science Place provides students with models for the study of anatomy and physiology.

American Sign Language and Interpreting Laboratories

The American Sign Language (ASL) Laboratory is designed to simulate, as close as possible, a Deaf Culture environment on a college campus. The college employs approximately 10 native, or near-native, ASL language models who work with students to develop culturally appropriate behavior and continuous language exposure and development in second language acquisition and in interpreting skills. The ASL Laboratory is located at the Spring Creek Campus in room BB108, and the Interpreting Laboratory also at the Spring Creek Campus is located in room BB221. Hours of operation are posted outside the lab each semester.

Computer Writing Classroom

Several sections of ENGL 1301 and ENGL 1302 are taught in computer classrooms located at the Central Park, Preston Ridge, and Spring Creek, campuses. Students in these classes have access to a word processor, the Internet, and an HTML editor.

Math Lab

The Math Labs assist Collin students enrolled in developmental mathematics, college-level mathematics, and natural science courses that have mathematics-based assignments. The staff includes faculty, lab instructors, and student tutors. Students may use videos, graphing calculators, and computers to complete homework assignments. Hours for drop-in assistance vary and are posted at each campus.

Writing Centers

The college's Writing Centers provide a place where students can seek advice on compositions assigned in classes across the curriculum. Each center's primary purpose is to help students become better writers by guiding them through the various stages of the writing process.

Writing Centers are located at the Central Park, Preston Ridge, and Spring Creek campuses. An appointment schedule is conveniently posted near the door of each center, and walk-ins are welcome at posted times. For further information, call the Writing Center (CPC-972.548.6857, PRC-972.377.1576, SCC-972.881.5843) or visit the Writing Center homepage at iws.ccccd.edu/wc/writingcenter.html.

FITNESS CENTERS

A major emphasis of the Physical Education Department at Collin is to encourage lifetime fitness. Students may use the Fitness Center at the Central Park, Preston Ridge, or Spring Creek campuses during the times posted.

The CPC Fitness Center consists of locker room facilities, a weight training room, a dance studio, and three racquetball courts.

The PRC Fitness Center consists of a gymnasium, dance studio, weight training room, natatorium, and locker room facilities.

The SCC Fitness Center consists of the main gymnasium with rubber running track, weight training room, two dance studios, four racquetball courts, locker room facilities, twelve lighted tennis courts, and use of the Oak Point Recreation Center natatorium (Mondays–Fridays, 8 a.m.– 4 p.m.).

Collin County residents who are not enrolled in classes at the college will have the opportunity to take advantage of these facilities by paying a membership fee. For further information and hours of operation, contact the Fitness Center at CPC-E121, 972.548.6891; PRC-A110, 972.377.1758; or SCC-A100, 972.881.5848.

INTERCOLLEGIATE ATHLETICS

The college offers intercollegiate athletic programs in men's and women's basketball and men's and women's tennis. These teams are affiliated with the National Junior College Athletic Association (NJCAA) and participate in the North Texas Junior College Athletic Conference (NTJCAC) and Region V events which may lead to national competition. To participate in intercollegiate athletic programs at Collin, students should contact the Athletic Director at 972.881.5888 for more information.

INTERNATIONAL STUDIES PROGRAM

The college offers international studies programs in a variety of fields to help prepare students to be successful in the increasingly global marketplace. These programs permit students to live and study abroad while completing degree/program requirements. In addition to college-sponsored programs, students may participate in exchange and other study abroad programs through some of the college's approved study abroad consortia. Exchange programs permit students to pay Collin tuition for overseas study. Scholarships and financial aid may be used to finance the international academic experience. For information about what programs are being offered and how to take advantage of this opportunity, call 972.881.5810.

LEARNING COMMUNITIES

Recognized by the Fund for the Improvement of Post-Secondary Education (FIPSE) and the Pew Charitable Trust, Collin's Learning Communities program emphasizes education in a synergistic environment, where learning is reciprocal. The program forms a single course by blending two disciplines with a common theme or central question. Students are then taught by the professors representing the areas of study and meet in a block of time equivalent to that of both classes, participating in class discussions and group projects. The extended time spent together and participating in collaborative activities forms a community-like atmosphere among students.

The blending of disciplines and the restructuring of students' time, credit, and learning experiences fosters more explicit intellectual

connections between students, between students and their faculty, and between students and their community. Students in Learning Communities apply concepts to the world around them and exhibit commitment and interest in civic engagement.

Learning Communities, in collaboration with Service-Learning, received national recognition when these programs were jointly awarded the 2001 Bellwether Award.

LEARNING RESOURCES CENTERS (LRC)

The Learning Resources Centers are located on the Central Park, Preston Ridge, and Spring Creek campuses. Each LRC consists of a library and other academic support services. The libraries offer reference and research assistance, as well as instruction on using library collections, systems, and services.

Collections:

The libraries offer over 160,000 books, 800 journals, 3,000 books and tape and CD, 12,000 circulating videotapes and DVDs, 4000 music CDs, and 1,000 self-paced instructional multimedia CDs on learning Excel, SQL, Word, PowerPoint, databases, programming, and more. The collections of libraries nationwide may be accessed through interlibrary loan. Faculty members place course reserve materials at the checkout desk for in-library use.

Systems:

Computer networking technologies are widely employed in the libraries. Millions of full-text documents, articles, and texts are available from the 78 databases to which the libraries subscribe. Two hundred PCs are available for use by students in the libraries. The library catalog system allows students to locate and request books from any campus. The libraries support wireless networking.

Services:

Many library resources and services are available via the Internet. The electronic reserve system, email reference, interlibrary loan, the library catalog, scholarly databases, and library instruction are among the web-based services that benefit both distance learners and off-campus students. The libraries provide quiet study areas and rooms for group collaboration. Library orientations and instruction on using library databases and systems may be scheduled for classes in order that students gain the full benefit of these complex and powerful systems. Visit the libraries' website, www.ccccd.edu/cs/lrc.html, for more information about services and resources.

SERVICE LEARNING

The Collin Service-Learning program is the recipient of the Campus Compact National Center for Community Colleges Collaboration Award, the nation's highest honor for service-learning programs in community colleges. Campus Compact also recognized the Service-Learning program as a model of exemplary civic

engagement practices. In collaboration with the college Learning Communities program, the Service-Learning program received the national Bellwether Award.

Service-Learning seeks to engage individuals in organized activities that combine both community-based service and academic learning. This unique experience strengthens academic, social, and practical skills, creates a sense of civic responsibility, and fosters a richer, deeper sense of connection to the community.

Service-Learning:

- is based on a reciprocal relationship in which the service reinforces and strengthens the learning, and the learning reinforces and strengthens the service.
- is integrated into the student's academic curriculum.
- provides students with opportunities to use newly acquired skills and knowledge in real-life situations.
- can be listed as "experience" on resume and college transfer applications.
- helps students to clarify or to discover their career path.

Service-Learning enhances what is taught in the classroom by extending student learning beyond the classroom; however, it is not giving credit for service, it is giving credit for learning. For more information about Service-Learning, go to www.ccccd.edu/servicelearning.

STUDENT LEADERSHIP ACADEMY (SLA)

POTENTIAL – "The possibility, capability, and capacity for growth" captures the spirit of the Student Leadership Academy (SLA). The academy is a semester long course designed to promote leadership practices that foster teamwork and integrity in personal and professional development through scholarship and service.

The academy will be offered in the fall of 2005. Class meetings will rotate between the Central Park, Preston Ridge, and Spring Creek campuses.

Topics will include: Communication/Leadership Styles, Leading Through Diversity, Visioning and Strategic Planning, Relationship Building and Group Dynamics, Wellness and Stress Management, and Problem Solving and Decision-Making. In addition, students will develop cumulative portfolios, deliver presentations, and work in teams. Guest speakers from business, industry, and academia will share their leadership experiences and the qualities they seek in potential leaders.

Students that have at least a 2.5 GPA and a desire to work hard and explore their leadership potential are invited to fill out an application. Applications are available from Student Life (CPC D109, PRC A185, and SCC F129). For more information, call 972.881.5787.

SPECIAL SERVICE PROGRAMS

Collin County Law Enforcement Academy

The Law Enforcement Academy received academy status in June of 1990 from the Texas Commission of Law Enforcement Officer

Standards and Education (TCLEOSE). Working with the Collin County Sheriff's Office and other law enforcement agencies, the Law Enforcement Academy provides quality training programs by and for experienced law enforcement officers.

These courses provide basic and advanced training designed to enhance both the technical skills as well as the professionalism of law enforcement officers. The Law Enforcement Academy provides TCLEOSE training credits as well as Continuing Education Units to all students successfully completing program requirements.

Some hands-on training is conducted in the college's Public Safety Training Complex—a 10-lane, indoor, computer controlled, and environmentally safe firearms training facility. The facility features an audiovisual classroom, weapons cleaning area, and armorer's repair room. The range master control room is equipped with closed-circuit television for monitoring range activities and a master control station for the moving target system. The range also features an environmentally safe rubber composite bullet trap. The range environment is equipped with a high quality air handling system that provides clean, climate controlled, filtered air for year-round firearms training.

Fire Protection Training

Collin County Community College recognizes the demand for specialized training for fire and rescue personnel. Fire suppression and rescue courses are designed for paid and volunteer firefighters. Experienced instructors from area fire departments are certified by the Texas Commission on Fire Protection. Classes are offered at a reasonable cost with convenient registration.

"Safety Smart" training provides industrial employees with a strong foundation in fire, hazardous materials, and confined-space hazard protection. Through specialized courses, students learn the latest techniques in handling emergencies, as well as protecting people, property, and the environment from harm.

For more information, contact the Fire Science Office at 972.548.6836.

Teacher Certification Program

Collin County Community College's Teacher Certification Program (TCP) is approved by the State Board for Educator Certification. The TCP offers a flexible training schedule for certification in various content areas.

To qualify for the TCP, applicants must hold a bachelor's degree in the content area for which they are seeking certification. Upon successful completion of this program and state mandated exams, individuals will be certified to teach in Texas public schools. Acceptance to the program is required to enroll.

For more information about teacher certification, please call the Center for Teaching, Learning, and Professional Development at 972.377.1062 or log on to its web site at www.ccccd.edu/teachered.

TRANSFER PROGRAMS

The ultimate goal of Collin County Community College District is to produce educated and productive students, knowledgeable in their chosen field of study. As part of Collin's commitment to transfer students, the college has partnered with various colleges and universities to establish transfer articulation agreements, dual admission agreements, and degree plans which provide students access to and linkages with their baccalaureate degree-granting institutions. Not only do these partnerships allow courses to transfer from one institution to another without misrepresentation or loss of credit; they foster a more confident and successful student.

Transfer Resources at Collin

Transfer services and resources are available to Collin students to help ensure easy transfer of course credits from Collin to the college or university of their choice. Some of the resources include individual assistance from academic advisors, TransferU website: <http://transferu.ccccd.edu>, Transfer Express, and Transfer Fairs.

Academic Advisors

Students planning to transfer Collin coursework to another college or university should contact an academic advisor. Students planning to earn associate degrees are also encouraged to contact an academic advisor. Academic advisors help students define short- and long-term transfer goals and assist with course selections. Collin academic advisors are located at each campus in the Student Development Center.

Transfer Express Program

During the spring semester, Collin County Community College hosts Transfer Express, a free program designed for Collin students who plan to transfer courses to other colleges and universities.

Transfer Express enables students to compare various schools without traveling to their campuses. Representatives from many well-known state colleges and universities are present to offer students valuable information including transferability of courses, academic programs, student activities, housing, and financial aid.

All students interested in transfer information are encouraged to attend Transfer Express. For more information, please contact the Recruitment and Programs for New Students Office at 972.377.1750.

Transfer Information/Resource Website

Collin's transfer information/resource website, <http://transferu.ccccd.edu>, provides students varied services which include:

- Course equivalencies for Collin and various colleges and universities
- Degree plans and transfer guides for colleges and universities
- Directory listing addresses, phone numbers, application deadlines, and transfer admission requirements for the "most-

requested” transfer colleges and universities

- Transfer scholarship information
- Frequently asked questions
- Calendar for college representative visits and Transfer Fairs
- General transfer of credit information
- Links to the Texas Common Application, The Texas Higher Education Coordinating Board (THE CB), College for Texans, and the Texas Common Course Numbering System (TCCNS)

Many of the website resources in addition to the following reference books and publications are also available in the Academic Advising Department located at CPC, PRC, and SCC.

- *College Handbook*
- *College Cost and Financial Aid Handbook*
- *Index of Majors and Graduate Degrees*
- *International Student Handbook*
- *Scholarship Handbook*
- Library of catalogs for Texas and out-of-state colleges and universities

NOTE: It is the responsibility of the student to check with the college or university to which they plan to transfer for all requirements. The student should know admissions policies, specific department requirements, deadlines, and courses that will satisfy specific degree requirements.

Tips for Transfer Students

- Students should start planning for transfer early in their college career. Seek individual assistance from a Collin academic advisor.
- Students who know their major can get transfer guides/2+2 guides from Collin’s transfer website: <http://transferu.ccccd.edu> or Collin academic advisors.
- Students who have not made a choice of a major should take core curriculum courses in the AA if leaning toward a liberal arts education and core curriculum courses in the AS if leaning toward a scientific or mathematical education.
- Check with the transfer college or university for deadlines and fees and make sure to meet all deadlines.
- Keep detailed records of all contacts and make copies of all documents sent to the college or university.
- Check with the college/university for GPA information. A minimum GPA of 2.0 (a “C” average) is required at most colleges and universities for admission to the college.
- Generally only credits (semester hours) transfer; grade point average (GPA) is used for admission to the college/university. Admission to certain programs and/or specific majors may vary greatly from the college admission GPA requirement.
- Many colleges and universities offer transfer orientation—attend if available.
- Try not to carry too many credit hours during the first semester transferred especially if students plan to work.
- Get involved—find an organization that sounds interesting and join the fun.

Dual Admissions Agreements

Southern Methodist University
Texas A&M University – Commerce
Texas Woman’s University
University of North Texas
University of Texas at Dallas

The Dual Admission Agreements allow qualified Collin students the opportunity to complete freshman and sophomore requirements for Southern Methodist University, Texas A&M University – Commerce, Texas Woman’s University, the University of North Texas, or the University of Texas at Dallas while enrolled at Collin.

Dual admissions will lower costs, making college more affordable and accessible. Students will complete the first two years of their bachelor’s degrees and pay Collin’s tuition rates.

Collin students participating in the Dual admissions programs will be rewarded for pursuing an academically rigorous program of study. They will be eligible for prestigious university scholarships and will receive recognition for completing honors courses at Collin.

These agreements extend select A&M – Commerce, SMU, TWU, UNT, and UTD student privileges, such as access to the libraries as well as cultural and athletic events, to Collin students.

For more information about Dual Admissions, please call 972.985.3734.

Transfer Guides and Articulation Agreements with Colleges and Universities

Collin has transfer guides and articulation agreements with the following colleges and universities. For details, please visit the website: <http://transferu.ccccd.edu> or visit the Academic Advising Department.

Baylor University
Dallas Baptist University
Hardin-Simmons University
LeTourneau University
Midwestern State University
Oklahoma State University
Sam Houston State University
Southeastern Oklahoma State University
Southern Methodist University
Stephen F. Austin State University
Tarleton State University
Texas A&M University – College Station
Texas A&M University – Commerce
Texas A&M University – Kingsville
Texas Christian University
Texas State University
Texas Tech University
Texas Woman’s University
University of Arkansas – Fayetteville
University of California – Northridge
University of Houston
University of North Texas
University of Oklahoma
University of Texas – Arlington
University of Texas – Austin

University of Texas – Dallas
University of Texas Southwestern
Allied Health Sciences School – Dallas
West Texas A&M University

Although officials at the various senior institutions have reviewed the information on these guides, the content is subject to change; therefore, it is the responsibility of the student to verify with the college or university of their choice the applicability of transfer information using the college/university catalog, website, and/or personal contact.

Common Course Numbering

To help meet the transfer needs of its students, Collin is a member of the Texas Common Course Numbering System Consortium (TCCNS). All Texas community/junior colleges and many Texas universities are also using this numbering system.

The Texas Common Course Numbering System provides a shared, uniform set of course designations for students and their advisors to use in determining both course equivalency and degree applicability of transfer credit on a statewide basis.

Students should not assume that only courses with common course numbers will transfer and should see a Collin academic advisor for assistance.

Guarantee for Transfer Credit

Collin guarantees to its students who have met the requirements for its Associate of Arts, Associate of Arts in Teaching, or Associate of Science degrees and students who have met the 60 credit-hour transfer plan the transferability of those course credits to the Texas colleges and/or universities that participate in the Guarantee for Transfer Credit program. This guarantee is designed for Collin students who have made firm decisions about their major, the transfer college or university to which they plan to transfer, and have followed a written transfer guide for that transfer institution.

If these courses are rejected, a student may take tuition-free alternate courses at Collin that are deemed acceptable by the college or university to which he/she wishes to transfer. Special conditions that apply to the guarantee program are available on request.

Resolution of Transfer Disputes

Collin works closely with colleges and universities to make the transfer process as smooth as possible for courses transferred to Collin from the other institutions and follows guidelines to resolve transfer disputes.

The Texas Higher Education Coordinating Board has established procedures (see below) to be followed when transfer credit for lower-division courses listed in the Academic Course Guide Manual (ACGM) is disputed. The individual courses covered by this procedure are defined in the Coordinating Board's guide entitled, "Transfer of Credit Policies and Curricula."

Procedures for Resolution of Transfer Disputes

The following procedures shall be followed by public institutions of higher education in the resolution of credit transfer disputes involving lower-division courses.

1. If an institution of higher education does not accept course credit earned by a student at another institution of higher education, the receiving institution shall give written notice to the student and to the sending institution that transfer of the course is denied. The receiving institution will also give the reasons for denying credit for a particular course or set of courses at the request of the sending institution.
2. The two institutions and the student shall attempt to resolve the transfer of the course credit in accordance with Board rule and/or guidelines.
3. If the transfer dispute is not resolved to the satisfaction of the student or the sending institution within 45 days after the date the student received written notice of denial, the institution whose credit is denied for transfer shall notify the commissioner of the denial.
4. The Commissioner of Higher Education or the Commissioner's designee shall make the final determination about the dispute concerning the transfer of course credit and give written notice of the determination to the involved student and institutions.

WEEKEND COLLEGE

Juggling the demands of work and home life can seem daunting; however, many adults have discovered that they can successfully balance work, family and college through a unique program designed specifically for working adults – the Weekend College. Collin's Weekend College offers students alternatives for those unable to attend college during the traditional time frame. Weekend College provides the opportunity to complete the entire core curriculum for the Associate of Arts (AA), Associate of Arts in Teaching (AAT), and Associate of Science (AS) degrees on Friday evenings, Saturday mornings, Saturday afternoons, Sunday afternoons or any combination without interrupting the work week. Courses are offered in express (eight-week courses or three-weekend courses) and standard sixteen week formats.

Students who wish to earn an AA, AAT, or AS degree and transfer to a four-year college or university can select general education courses that will apply to a bachelor's degree. Developmental courses that improve the basic skills of students whose academic foundation needs strengthening are available. A number of applied science and technical/workforce programs designed to prepare students for employment and update their technical skills are also available.

For additional information, please contact the Weekend College Office at 972.881.5801, visit the Weekend College website at www.ccccd.edu/student-services/weekend/index.html, or correspond via email to weekendcollege@cccd.edu.

ACADEMIC DEGREES: ASSOCIATE OF ARTS, ASSOCIATE OF ARTS IN TEACHING, *and associate of science*

GETTING STARTED AT COLLIN

Collin offers a variety of plans designed to prepare students for a college or university degree. Some options include pursuing an associate degree, completing the core curriculum or a field of study, or beginning coursework in a pre-professional program.

ASSOCIATE OF ARTS (AA), ASSOCIATE OF ARTS IN TEACHING (AAT), AND ASSOCIATE OF SCIENCE (AS) DEGREES

The Associate of Arts, Associate of Arts in Teaching, and Associate of Science degrees are designed for students planning to transfer course credits to a baccalaureate degree program at a college or university. The curriculum suggested in this catalog will satisfy the requirements of most colleges and universities.

Students should visit with an academic advisor to ensure that they take the correct courses for their Associate of Arts, Associate of Arts in Teaching, or Associate of Science degree program at Collin in addition to the major for their chosen transfer college or university. The selection of science, math, and elective credit courses is often based on the requirements of the specific transfer college or university.

CORE CURRICULUM

The Texas Education Code, as a result of Senate Bill 148, requires all public colleges and universities to have a core curriculum. Core curriculum is defined as “the curriculum in the liberal arts, humanities, sciences, and political, social, and cultural history that all undergraduate students of a particular Texas institution of higher education are required to complete before receiving an associate or bachelor’s degree.”

The purpose of the core curriculum is to provide the skills, knowledge, and perspectives that help define the educated person. The courses included in the core curriculum will contribute to the acquisition of these skills perspectives and to a basic core of knowledge.

The core curriculum is predicated on a series of basic intellectual competencies—reading, writing, speaking, listening, critical thinking,



and computer literacy—that are essential to the learning process in any discipline. Although students can be expected to come to college with some experience in exercising these competencies, they often need further instruction and practice to meet college standards and, later, to succeed in both their major field of academic study and their chosen career or profession.

Collin will designate core curriculum courses completed by a student on the official Collin transcript. If a student satisfies all component areas, the message “Core Curriculum Completed” will appear on the transcript. Students who make substitutions in the core curriculum may not be core complete. Contact a Degree Plan/Graduate Associate for more information.

Students should visit with an academic advisor to ensure that they take the correct courses for their Associate of Arts, Associate of Arts in Teaching, or Associate of Science degree program at Collin in addition to the major for their chosen transfer college or university.

The AA and AS core curricula follow:

ASSOCIATE OF ARTS CORE CURRICULUM¹

Communications **9 credit hours**

English	6 credit hours
ENGL 1301 and 1302	
Speech – <i>Select one course:</i>	3 credit hours
SPCH 1311, 1315, or 1321	

Humanities **3 credit hours**

Select one course:

ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2342, or 2343
 FREN 2303 or 2304
 HUMA 1301
 PHIL 1301, 1304, 2303, 2306, 2307, or 2321
 SPAN 2321 or 2322

Mathematics **3 credit hours**

Select one course:

MATH 1314, 1316, 1324, 1325, 1332², 1342, 1350, 1351, 1414, 2305, 2318 2320, 2412, 2413, 2414, 2415, 2417, or 2419

Natural Sciences **8 credit hours**

Select two courses (course sequence recommended):

BIOL 1406, 1407, 1408, 1409, 1411, 2401, 2402, 2404, 2406, 2416, 2421, or 2428
 CHEM 1405, 1407, 1411, 1412, 1419, 2401, 2423, or 2425
 ENVR 1401 or 1402
 GEOL 1401, 1402, 1403, 1404, 1405, 1445, or 1447
 PHYS 1401, 1402, 1405, 1411, 1415, 2425, or 2426

Social/Behavioral Sciences **3 credit hours**

Select one course:

ANTH 2346 or 2351
 ECON 2301 or 2302
 PSYC 2301
 SOCI 1301

Social Sciences **12 credit hours**

Legislative Mandate – Students must take BOTH of the following courses:

GOVT 2301 (Texas) and GOVT 2302 (U.S.)

Legislative Mandate – Students must take TWO of the following courses:

HIST 1301, 1302, or 2301

Visual/Performing Arts **3 credit hours**

Select one course:

ARTS 1301, 1303, or 1304
 DANC 2303
 DRAM 1310, 2361, or 2362
 MUSI 1306 or 1307

Institutional Options **4 credit hours**

Students must select one course in each of the following areas:

COSC 1300 or BCIS 1305³ (or higher level computer transfer course as determined by student’s area of emphasis)
 Any PHED/DANC Activity Course (1 credit hour) or PHED 1338

AA Core Curriculum **45 credit hours**

AA Graduation Requirement* **3 credit hours**

Electives/Areas of Emphasis⁴ **12 credit hours minimum**

Total **60 credit hours minimum**

AAT Graduation Requirements **Complete the AA core curriculum**

Complete 16-18 credit hours in required education courses and content area teaching fields/academic disciplines. See page 65-66.

NOTES:

- 1 Some courses in the core curriculum may require prerequisites. Please check course descriptions in the back of this catalog.
- 2 Check with academic advising regarding transferability. Some majors or institutions may require a higher-level mathematics course.
- 3 It is possible for students to test out of COSC 1300 and BCIS 1305; please contact the Computer Science Department Chair for more information.
- 4 In order to complete an area of emphasis, students must complete 12 credit hours of recommended electives.

To complete an Associate of Arts degree:

* One sophomore Literature course (3 credit hours) is required for graduation.

ASSOCIATE OF SCIENCE CORE CURRICULUM¹

Communications **9 credit hours**

English	6 credit hours
ENGL 1301 and 1302	
Speech – <i>Select one course:</i>	3 credit hours
SPCH 1311, 1315, or 1321	

NOTE: The second digit in a course number indicates the number of credit hours for that course.

Humanities **3 credit hours**

Select one course:

ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2342, or 2343

FREN 2303 or 2304

HUMA 1301

PHIL 1301, 1304, 2303, 2306, 2307, or 2321

SPAN 2321 or 2322

Mathematics **3 credit hours**

Select one course:

MATH 1314, 1316, 1342, 1414, 2305, 2318 2320, 2412, 2413,

2414, 2415, 2417, or 2419

Natural Sciences **8 credit hours**

Select two courses (course sequence recommended):

BIOL 1406, 1407, 1411, 2401, 2402, 2406, 2416, 2421, or 2428

CHEM 1411, 1412, 2401, 2423, or 2425

ENVR 1401 or 1402

GEOL 1403 or 1404

PHYS 1401, 1402, 2425, or 2426

Social/Behavioral Sciences **3 credit hours**

Select one course:

ANTH 2346 or 2351

ECON 2301 or 2302

PSYC 2301

SOCI 1301

Social Sciences **12 credit hours**

Legislative Mandate – Students must take BOTH of the following courses:

GOVT 2301 (Texas) and GOVT 2302 (U.S.)

Legislative Mandate – Students must take TWO of the following courses:

HIST 1301, 1302, or 2301

Visual/Performing Arts **3 credit hours**

Select one course:

ARTS 1301, 1303, or 1304

DANC 2303

DRAM 1310, 2361, or 2362

MUSI 1306 or 1307

Institutional Options **4 credit hours**

Students must select one course in each of the following areas:

COSC 1300 or BCIS 1305² (or higher level computer transfer course as determined by student's area of emphasis)

Any PHED/DANC Activity Course (1 credit hour) or PHED 1338

AS Core Curriculum **45 credit hours****AS Graduation Requirement*** **3 credit hours****Electives/Areas of Emphasis³** **12 credit hours minimum****Total** **60 credit hours minimum****AAT Graduation Requirements:****Complete the AS core curriculum**

Complete 16-18 credit hours in required education courses and content area teaching fields/academic disciplines. See pages 65-66.

NOTES:

- 1 Some courses in the core curriculum may require prerequisites. Please check course descriptions in the back of this catalog.
- 2 It is possible for students to test out of COSC 1300 and BCIS 1305; please contact the Computer Science Department Chair for more information.
- 3 In order to complete an area of emphasis, students must complete 12 credit hours of recommended electives.

To complete an Associate of Science degree:

- * One additional Mathematics course (3 credit hours) is required for graduation.

AA, AS, and AAT Degree Requirements Review

The Associate of Arts and Associate of Science degrees are awarded to students who meet the following requirements.

1. Earn a minimum of 60 credit hours (excluding developmental credit).
2. Complete the core curriculum of 45 credit hours.
3. Complete a minimum of 12 credit hours of recommended electives/areas of emphasis. See pages 53-72.
4. Complete the additional 3-credit hour course required for the Associate of Arts or Associate of Science degree.
5. Earn a minimum of 18 credit hours in residency at Collin.
6. Earn a minimum cumulative GPA of 2.0.
7. Complete TSI requirements.

The Associate of Arts in Teaching degree is awarded to students who meet following requirements (in addition to requirements 1, 2, 5, 6, and 7 listed above).

1. Complete the AA or AS core curriculum of 45 credit hours.
2. Complete 16-18 credit hours in required education courses and content area teaching fields/academic disciplines. See pages 65-66.

Choosing a Catalog Year

Students who plan to transfer to a college or university have a choice to make regarding their requirements for graduation. Specifically, they may choose the catalog year under which they wish to graduate. This choice is subject to restrictions that are outlined in the college or university catalog. Students should consult their Collin academic advisor or the catalog of their choice to learn about any limitations.

Students who plan to transfer should keep a copy of the *Collin Catalog* from the year they choose, the college or university's catalog, and the transfer guide that was valid at the time they enrolled in Collin and selected a major. Course syllabi should also be kept.

Fields of Study

Mandated in Senate Bill 148, the Fields of Study (FOS) curricula are intended to facilitate the transferability of lower-division courses among Texas public colleges and universities. FOS courses are defined by SB 148 as, "a set of courses that will satisfy the lower-division requirements for a bachelor's degree in a specific academic major at a general academic teaching institution." Receiving institutions may not require incoming transfer students to repeat courses with the same content as FOS courses. Collin offers FOS curricula for the Business, Computer Science, Communication, Criminal Justice, Engineering, Engineering Technology, Music, and Nursing areas of emphasis. Refer to the specific FOS curriculum in the Associate of Arts and Associate of Science sections of this catalog.

AREAS OF EMPHASIS FOR THE ASSOCIATE OF ARTS DEGREE

The Associate of Arts degree provides general academic courses and electives for students who plan to transfer to a college or university. Because of the various transfer requirements at colleges and universities, and to ensure enrollment in appropriate courses, students should verify course transferability with a Collin academic advisor and/or the college or university that they plan to attend.

ACCOUNTING

Students who are planning to major in Accounting as part of a bachelor's degree in Business at a four-year university should refer to Business on pages 54-55. Students should take ACCT 2301 and ACCT 2302. ACCT 2301 is a prerequisite for ACCT 2302.

AMERICAN SIGN LANGUAGE (DEAF EDUCATION)

60 credit hours

Department Chair:

Henry WhalenSCC-B135972.881.5152
(TTY) 972.881.5138

Academic Advisor:

Amy ThroopPRC-F132972.377.1513

The Associate of Arts degree with an emphasis in American Sign Language (Deaf Education) provides general academic courses and electives that enable students who intend to major in Deaf Education or Deaf Studies to transfer to a college or university.

The American Sign Language emphasis is designed to provide students with essential, foundational ASL skills, familiarity with Deaf Culture, and an introduction to the discipline of education.

Contact department chair regarding the 2+2 Program with Texas Woman's University.

Career Opportunities

Students selecting ASL as their emphasis at Collin may transfer into a college or university program. There is a dire shortage of teachers nationwide, and entry-level positions are available.

AA Core Curriculum **45 credit hours**
Additional Graduation Requirement **3 credit hours**

See page 51.

Recommended Electives **12 credit hours**

SGNL 1401	American Sign Language (ASL): Beginning I	4
SGNL 1402	American Sign Language (ASL): Beginning II	4
SGNL 2301	American Sign Language (ASL): Intermediate I	3
SGNL 2302	American Sign Language (ASL): Intermediate II ¹	3
SLNG 1311	Fingerspelling and Numbers ^{1,*}	3
SLNG 1447	Deaf Culture*	4
EDUC 1301	Introduction to the Teaching Profession ²	3
EDUC 2301	Introduction to Special Populations ²	3

- 1 Recommended for students pursuing degrees in Deaf Studies
- 2 Recommended for students pursuing degrees in Deaf Education
- * Students should verify course transferability with a Collin academic advisor and/or the college or university that they plan to attend.

ANTHROPOLOGY

60 credit hours

Department Chair:

Daphne BabcockSCC-I226972.578.5518

Academic Advisor:

LeCrecia RobinsonSCC-G146972.881.5854

The Anthropology program is designed to provide students with essential life skills and help them better understand themselves and the world around them. Anthropology asks, "What does it mean to be human?" "What different ways are there of being human?" and "How are we to understand these commonalities and differences?" These are critical questions for a world torn by racial and ethnic conflicts and divided by bigotry and unequal opportunities for individual growth and societal development. The study of such questions requires the integration of archaeological, biological, and cultural research — the basic components of anthropology. Anthropology majors or minors gain a solid foundation in the discipline that prepares them for transferring into a university program.

NOTE: The second digit in a course number indicates the number of credit hours for that course.

Career Opportunities

The majority of students that select Anthropology as their emphasis at Collin transfer into college or university programs. Entry-level positions are available in cultural resource management firms upon completion of an associate degree. Anthropology majors at colleges and universities typically seek careers in teaching the social sciences or research and planning in governmental or corporate settings. An anthropology minor is an excellent choice for students considering careers in business, medicine, law, government, or diplomacy.

AA Core Curriculum 45 credit hours

Additional Graduation Requirement 3 credit hours

See page 51.

Recommended Electives 12 credit hours

ANTH 2301	Physical Anthropology	.....3
ANTH 2302	Introduction to Archaeology	.....3
ANTH 2346	General Anthropology	.....3
ANTH 2351	Cultural Anthropology	.....3
ANTH 2389	Academic Co-op Anthropology	.....3
BIOL 2404	Human Anatomy and Physiology Basics	.....4
BIOL 2416	Genetics	.....4
GEOG 1302	Cultural Geography	.....3
SOCI 1301	Introduction to Sociology	.....3
SOCI 2319	Minority Studies	.....3

ART

60 credit hours

Also see Photography

Department Chair:

Luke SidesSCC-A243A972.516.5008

Academic Advisor:

Todd FieldsSCC-G139972.881.5903

The Visual Arts program offers courses in foundation classes such as drawing, design, and art appreciation and specialization classes such as painting, watercolor, ceramics, sculpture, printmaking, computer arts, and art history. All labs include professional quality equipment such as an intaglio printing press, a variety of ceramic kilns, electric pottery wheels, and a metal-casting foundry. Gallery spaces serve to acquaint students with current professional artists and to showcase student work in competitions and all-student shows. Seminars in professional practices help prepare the students to function as visual artists. Instructors are highly trained, practicing artists who are dedicated to encouraging the individual student to reach his or her highest level of skill and creativity.

Career Opportunities

Careers in visual arts are varied. Most visible are the practicing, professional visual artists and art teachers. Other career opportunities include work in museums as docents; museum curators; art historians; art restorers; exhibition designers; sales positions in galleries; artists'

representatives; art brokers; art therapists; medical illustrators; art administrators and directors of cultural arts programs; color, space or texture consultants; commercial artists; illustration and design of books and advertising; window display; interior design; and fabric, wall, and floor covering design. Students may enroll in an Academic Co-op course through Cooperative Work Experience to obtain practical experience in the career field.

AA Core Curriculum 45 credit hours

Additional Graduation Requirement 3 credit hours

See page 51.

Recommended Electives 12 credit hours

ARTS 1301	Art Appreciation	.....3
ARTS 1303	Art History I	.....3
ARTS 1304	Art History II	.....3
ARTS 1311	Design I (Basic 2-D)	.....3
ARTS 1312	Design II (Basic 3-D)	.....3
ARTS 1316	Drawing I	.....3
ARTS 1317	Drawing II	.....3
ARTS 2311	Introduction to Color/Painting	.....3
ARTS 2316	Painting I	.....3
ARTS 2317	Painting II	.....3
ARTS 2323	Life Drawing I	.....3
ARTS 2324	Life Drawing II	.....3
ARTS 2326	Sculpture I	.....3
ARTS 2327	Sculpture II	.....3
ARTS 2333	Printmaking I	.....3
ARTS 2334	Printmaking II	.....3
ARTS 2346	Ceramics I	.....3
ARTS 2347	Ceramics II	.....3
ARTS 2348	Digital Art I	.....3
ARTS 2349	Digital Art II	.....3
ARTS 2366	Watercolor I	.....3
ARTS 2367	Watercolor II	.....3
ARTS 2371	Portfolio	.....3
ARTS 2389	Academic Co-op Arts/Photography	.....3

BUSINESS

60 credit hours

Department Chair:

Tom HudginsSCC-G225972.516.5060

Academic Advisor:

Al GoberPRC-F134972.377.1780

The Associate of Arts degree with an emphasis in Business prepares students for transfer to colleges and universities that offer bachelor's degrees in various areas of business. Students interested in careers in business who are planning to major in accounting, business administration, finance, international business, management, or marketing should follow the Business Field of Study curriculum. The completed Field of Study will transfer to any Texas public college or university.

NOTE: The second digit in a course number indicates the number of credit hours for that course.

AA Core Curriculum **45 credit hours**
Additional Graduation Requirement **3 credit hours**
 See page 51.

Recommended Core Courses for Business Majors

Mathematics: MATH 1324 or MATH 1314/1414
 Communications: SPCH 1321
 Computer Science: BCIS 1305

Field of Study **12 credit hours**

Core courses

BCIS 1305 Business Computer Applications3
 MATH 1325 Calculus for Business and Economics I¹3
 SPCH 1321 Business and Professional Speaking (preferred) ...3
 OR
 SPCH 1315 Public Speaking I3

Business Content Courses

ACCT 2301 Financial Accounting3
 ACCT 2302 Managerial Accounting3
 ECON 2301 Principles of Macroeconomics3
 ECON 2302 Principles of Microeconomics3

Recommended Electives

The following recommended electives may also be taken toward a bachelor's degree; however, they are not part of the Field of Study:

BUSI 1301 Introduction to Business²3
 BUSI 2301 Business Law²3
 MATH 1342 Statistics²3

- 1 Collin Prerequisite: MATH 1314, 1414, or 1324. Individual colleges and universities will determine their own prerequisite requirements.
- 2 Please check with the receiving college or university for transfer requirements.

COMMUNICATION FIELD OF STUDY

12 credit hours

Department Chair:

Sherry RhodesSCC-I206972.516.5063

Academic Advisor:

Amy ThroopPRC-F132972.377.1513

The Communication Field of Study (FOS) will lead to the Bachelor of Arts degree with special emphasis or concentration in General Communication/Communication Studies/ Speech Communication/Speech and Rhetorical Studies/Organizational Communication.

The completed FOS will transfer to any Texas public college or university. The complete sub-area FOS Curriculum will be applied toward the appropriate communication degree plan. Each college or university will accept at least 12 hours of course work with an institutional prerogative to accept 15 hours. Students must complete 6

hours in Competency Area 1 to gain historical, theoretical, and/or analytical competency of the communication field. Students must also complete 6 hours in Competency Area 2 to demonstrate competency in writing/performance/production. Each course will only count toward one competency area. Students will be required to take additional courses at the receiving college or university to meet that institution's degree plan requirements.

General Communication

Field of Study **12 credit hours**

Competency Area 1 **6 hours**

SPCH 1311 Fundamentals of Speech Communication¹3
 SPCH 1318 Interpersonal Communication3

Competency Area 2 **6 hours**

SPCH 1315 Public Speaking I¹3
 SPCH 1321 Business and Professional Speaking¹3

1 Within the FOS, there are courses listed which will satisfy requirements for both the AA/AS Core Curriculum and the FOS.

Mass Communication

The Field of Study (FOS) in a Mass Communication-related sub-area will lead to the Bachelor of Arts degree with special emphasis or concentration in Advertising/Public Relations, Journalism/Mass Communication, or Radio and Television Broadcasting/Broadcast Journalism. The completed FOS in a given sub-area will transfer to any Texas public college or university. The complete sub-area FOS Curriculum will be applied toward the appropriate communication degree plan. Each college or university will accept at least 12 hours of course work with an institutional prerogative to accept 15 hours. Students must complete 6 hours in Competency Area 1 to gain historical, theoretical, and/or analytical competency of the mass communication field. Students must also complete 6 hours in Competency Area 2 to demonstrate competency in writing/performance/production. Each course will only count toward one competency area. Students will be required to take additional courses at the receiving college or university to meet that institution's degree plan requirements.

Field of Study **12 credit hours**

Collin offers more than the minimum number of courses required for the FOS in some of the sub-areas below. Students may choose 6 hours from each competency area to satisfy the FOS, or may take additional courses if the receiving institution agrees to accept them toward a 15-hour FOS. Check with a Collin academic advisor for assistance in selecting your courses.

NOTE: The second digit in a course number indicates the number of credit hours for that course.

Advertising/Public Relations

Competency Area 1	6 hours
COMM 1307 Introduction to Mass Communication	3
COMM 2300 Media Literacy	3

Competency Area 2	6 hours
COMM 2332 Radio/Television News	3
COMM 2339 Writing for Radio, TV, and Film	3

Journalism/Mass Communication

Competency Area 1	6 hours
COMM 1307 Introduction to Mass Communication	3
COMM 2300 Media Literacy	3

Competency Area 2	select 6 hours
COMM 1316 News Photography I	3
COMM 1317 News Photography II	3
COMM 2332 Radio/Television News	3
COMM 2339 Writing for Radio, TV, and Film	3

Radio and Television**Broadcasting/Broadcast Journalism**

Competency Area 1	select 6 hours
COMM 1307 Introduction to Mass Communication	3
COMM 1335 Survey of Radio/Television	3
COMM 2300 Media Literacy	3

Competency Area 2	select 6 hours
COMM 2331 Radio and TV Announcing	3
COMM 2332 Radio/Television News	3
COMM 2339 Writing for Radio, TV, and Film	3

CRIMINAL JUSTICE

60 credit hours

Department Chair:

David MarbleSCC-B230972.516.5051

Academic Advisor:

Carie AndrewsSCC-G145972.881.5773

The Associate of Arts degree with an emphasis in Criminal Justice provides general academic courses and electives which enable students who intend to major in criminal justice to transfer to a college or university which offers baccalaureate degrees in Criminal Justice. Students planning to transfer will have a solid foundation upon which to build as they pursue further studies in criminal justice.

The Field of Study (FOS) curriculum for Criminal Justice includes 15 credit hours of lower-division course work, which will transfer and apply to baccalaureate criminal justice programs at all public universities in Texas. Universities offering equivalent courses at the upper-division level will substitute the lower-division level courses for the upper-division ones, unless they can demonstrate substantial and significant difference in the content of the upper-division courses.

The FOS includes the five specified courses listed below. Students may also add an additional six credit hours of course work from the "Recommended Electives" which may be transferred by local agreement to the university or which may be required by the receiving university, as long as the additional course work does not duplicate content already covered in the other FOS courses.

Career Opportunities

Criminal Justice graduates are academically prepared for entry-level positions in law-enforcement, court services, and corrections at the local, state, and federal levels of government. Through classroom and laboratory experiences, students acquire the fundamental knowledge and skills necessary to understand the criminal justice system, its agencies, personnel, and functions. Challenging career opportunities await graduates at all levels of government as:

- Corrections Officers
- Law Enforcement Officers and Investigators
- Probation Officers and Parole Officers
- Victim Services Counselors
- Youth Service and Juvenile Court Officers

AA Core Curriculum	45 credit hours
Additional Graduation Requirement	3 credit hours
See page 51.	

Field of Study **15 credit hours**

CRIJ 1301	Introduction to Criminal Justice	3
CRIJ 1306	Court Systems and Practices	3
CRIJ 1310	Fundamentals of Criminal Law	3
CRIJ 2313	Correctional Systems and Practices	3
CRIJ 2328	Police Systems and Practices	3

Recommended Electives **12 credit hours**

CRIJ 1307	Crime in America	3
CRIJ 1313	Juvenile Justice System	3
CRIJ 2301	Community Resources in Corrections	3
CRIJ 2314	Criminal Investigation	3
CRIJ 2323	Legal Aspects of Law Enforcement	3

DANCE

60 credit hours

Department Chair:

Tiffanee ArnoldSCC-AA145972.881.5830

Academic Advisor:

Todd FieldsSCC-G139972.881.5903

Collin's Dance program has a strong reputation for excellence in dance education, choreography and performance, propelling students into several prestigious university dance programs. The dance curriculum includes multiple levels of: ballet, modern dance, jazz, tap, dance appreciation, improvisation, choreography and performance classes.

NOTE: The second digit in a course number indicates the number of credit hours for that course.

The Dance program provides a solid foundation of classes that focus on movement fundamentals, technique, performance and choreography. The curriculum provides a comprehensive approach to learning dance by integrating the aesthetics, historical, critical, cultural and fundamental aspects of dance as an art form.

Students interested in additional dance experience may audition for Collin's resident dance company. The mission of the company is to produce contemporary dance works at the highest level of artistic excellence. The dance company attends and performs at the American College Dance Festival annually and has received the Gala Award at that festival four times. Dance auditions for the dance company are held prior to the fall semester.

For more information about the Dance program, contact Tiffanee Arnold, chair of dance, at SCC-AA145, 972.881.5830 or tarnold@cccdd.edu.

Career Opportunities:

Dance students may select a career in a wide variety of areas. Students should bear in mind that most of these career areas require education beyond the Associate of Arts degree. Careers available to dance students include:

- Artistic Director
- Choreographer
- Dance Critic
- Dance Educator
- Dance Historian
- Dance/Movement Therapist
- Dance Notator/Labanotation
- Dance Studio Owner
- Performer

AA Core Curriculum

Additional Graduation Requirement

See page 51.

45 credit hours

3 credit hours

Recommended Electives

12 credit hours

DANC 1101	Dance Improvisation	.....1
DANC 1110	Tap Technique I	.....1
DANC 1111	Tap Technique II	.....1
DANC 1141	Ballet Technique I	.....1
DANC 1142	Ballet Technique II	.....1
DANC 1145	Modern Dance Technique I	.....1
DANC 1146	Modern Dance Technique II	.....1
DANC 1147	Jazz Dance Technique I	.....1
DANC 1148	Jazz Dance Technique II	.....1
DANC 1151	Dance Performance I	.....1
DANC 1152	Dance Performance II	.....1
DANC 1201	Dance Composition	.....2
DANC 1212	Dance Practicum I	.....2
DANC 1213	Dance Practicum II	.....2

DANC 2141	Ballet Technique III	.....1
DANC 2142	Ballet Technique IV	.....1
DANC 2145	Modern Dance Technique III	.....1
DANC 2146	Modern Dance Technique IV	.....1
DANC 2147	Jazz Dance Technique III	.....1
DANC 2148	Jazz Dance Technique IV	.....1
DANC 2151	Dance Performance III	.....1
DANC 2152	Dance Performance IV	.....1
DANC 2212	Dance Practicum III	.....2
DANC 2213	Dance Practicum IV	.....2
DANC 2303	Dance Appreciation	.....3
DANC 2389	Academic Co-Op Dance	.....3

ECONOMICS

Students who are planning to major in Economics as part of a bachelor's degree in Business at a four-year university should refer to Business on pages 54-55. Students wishing to major in Economics as part of a bachelor's degree in Economics at a four-year university should take the AA Core Curriculum and ECON 2301 and ECON 2302.

EDUCATION

See Associate of Arts in Teaching (AAT) on page 65.

ENGLISH

60 credit hours

Department Chair:

Shirley McBrideSCC-B193972.881.5675

Academic Advisor:

Amy ThroopPRC-F132972.377.1513

An emphasis in English promotes the development of writing skills, reasoning, and critical thinking. Composition and rhetoric courses focus on expository and persuasive writing including argumentation, logical thinking, and research. An integral part of each course is a lab component that is designed to help students identify weak areas in their writing, eliminate individual writing problems, which will strengthen writing skills.

The Writing Center, another part of the English program, provides professional consultation to students across the curriculum. At the center, students can get immediate help in composing, writing, and revising papers, resumes, reports, etc.

Some Composition/Rhetoric I courses are taught in computer classrooms. The department also offers distance learning classes. Students may also enroll in an Academic Co-op course through Cooperative Work Experience to gain practical work experience.

Career Opportunities

- Positions requiring writing skills
- Positions requiring editing/proofing skills
- Positions requiring critical thinking skills

NOTE: The second digit in a course number indicates the number of credit hours for that course.

- Positions requiring knowledge of the research process Combined with further study, the associate degree with an emphasis in English may equip students for a variety of careers in education, law, government, and public information.

AA Core Curriculum **45 credit hours**
Additional Graduation Requirement **3 credit hours**
 See page 51.

Recommended Electives **12 credit hours**

ENGL	2307	Creative Writing I	3
ENGL	2308	Creative Writing II	3
ENGL	2311	Technical and Business Writing	3
ENGL	2322	British Literature I	3
ENGL	2323	British Literature II	3
ENGL	2327	American Literature I	3
ENGL	2328	American Literature II	3
ENGL	2332	World Literature I	3
ENGL	2333	World Literature II	3
ENGL	2342	Introduction to Literature I - Short Story and Novel	3
ENGL	2343	Introduction to Literature II – Poetry and Drama	3
XXXX	x4xx	Foreign Language Sequence I	4
XXXX	x4xx	Foreign Language Sequence II	4

FRENCH

60 credit hours

Department Chair:

Sherry RhodesSCC-I206972.516.5063

Academic Advisor:

Amy ThroopPRC-F132972.377.1513

An emphasis in French provides the essential language background for the advanced study of French, for competency in understanding, speaking, and writing the language, and for a more rapid acquisition of other foreign languages (particularly romance languages such as Spanish). The courses are oral-proficiency based in order to enable the student to converse in French as quickly as possible.

Career Opportunities

When combined with further study beyond the associate degree, an emphasis in French may lead to careers in education, business, or government. In light of the opportunities presented by the emergence of a common European market, the mastery of French and other European languages may lead to exciting career opportunities when combined with a business or marketing degree.

AA Core Curriculum **45 credit hours**
Additional Graduation Requirement **3 credit hours**
 See page 51.

Recommended Electives **12 credit hours**

FREN	1100	French Conversation I ¹	1
FREN	1110	French Conversation II ²	1
FREN	1411	Beginning French I	4
FREN	1412	Beginning French II	4
FREN	2303	French Literature I	3
FREN	2304	French Literature II	3
FREN	2311	Intermediate French I ¹	3
FREN	2312	Intermediate French II ²	3

1 Corequisites: must be taken simultaneously

2 Corequisites: must be taken simultaneously

GEOGRAPHY

60 credit hours

Department Chair:

Kristen StreaterSCC-BB212972.578.5534

Academic Advisor:

Carie AndrewsSCC-G145972.881.5773

Because our world is immersed in the Information Age and we have entered a period in human history marked by increasing globalization, it is important for students to be geographically literate. The geography program is designed to expand students' knowledge about the physical and cultural environments of the world and prepare them for a career in the global market.

Career Opportunities

Students transferring into a college or university geography curriculum can prepare for diverse careers in urban planning, petroleum exploration, cartography (mapping), and corporate planning for expansion and development. Many universities require education majors to take a geography course as part of their degree.

AA Core Curriculum **45 credit hours**

Additional Graduation Requirement **3 credit hours**

See page 51.

Recommended Electives **12 credit hours**

GEOG	1301	Physical Geography	3
GEOG	1302	Cultural Geography	3
GEOG	1303	World Regional Geography	3
ANTH	2351	Cultural Anthropology	3
HIST	2311	Western Civilization I	3
HIST	2312	Western Civilization II	3
PSYC	2301	General Psychology	3
XXXX	x4xx	Foreign Language Sequence I	4
XXXX	x4xx	Foreign Language Sequence II	4

GERMAN

60 credit hours

Department Chair:

Sherry RhodesSCC-I206972.516.5063

Academic Advisor:

Amy ThroopPRC-F132972.377.1513

An emphasis in German provides the essential language background for the advanced study of German, for competency in understanding, speaking, and writing the language, and for a more rapid acquisition of other foreign languages (particularly Germanic languages such as Dutch). The courses are oral-proficiency based in order to enable students to converse in German as quickly as possible.

Career Opportunities

The reunification of Germany has created many job opportunities in international relations, business, and finance. German has emerged as an important language in both the European community and the world market. Combining the study of German with business or related degrees provides students with the tools to live and work in an international environment.

AA Core Curriculum **45 credit hours**
Additional Graduation Requirement **3 credit hours**
 See page 51.

Recommended Electives **12 credit hours**

GERM 1100	Conversational German I ¹	.....1
GERM 1110	Conversational German II ²	.....1
GERM 1411	Beginning German I	.....4
GERM 1412	Beginning German II	.....4
GERM 2311	Intermediate German I ¹	.....3
GERM 2312	Intermediate German II ²	.....3

1 Corequisites: must be taken simultaneously

2 Corequisites: must be taken simultaneously

GOVERNMENT

60 credit hours

Department Chair:

David MarbleSCC-B230972.516.5051

Academic Advisor:

Carie AndrewsSCC-G145972.881.5773

An Associate of Arts degree with an emphasis in Government is a stepping-stone to a liberal arts education. The second step is a bachelor's degree from a college or university. The Government program features introductory courses in political science, American, and Texas politics. The courses emphasize contemporary political analysis, critical thinking, and hands-on experiential learning exercises.

Career Opportunities

A major in government provides an excellent background for law school, a career in education, or a broad background in the liberal arts which is valued by employers in all areas.

AA Core Curriculum **45 credit hours**
Additional Graduation Requirement **3 credit hours**
 See page 51.

Recommended Electives **12 credit hours**

GOVT 2304	Introduction to Political Science	.....3
CRIJ 1301	Introduction to Criminal Justice	.....3
ECON 2301	Principles of Macroeconomics	.....3
ECON 2302	Principles of Microeconomics	.....3
PHIL 2303	Introduction to Logic	.....3
PHIL 2306	Introduction to Ethics	.....3
PSYC 2301	General Psychology	.....3
XXXX x4xx	Foreign Language Sequence I	.....4
XXXX x4xx	Foreign Language Sequence II	.....4

HISTORY

60 credit hours

Department Chair:

Kristen StreaterSCC-BB212972.578.5534

Academic Advisor:

Carie AndrewsSCC-G145972.881.5773

The History program is designed for students interested in completing an associate degree as well as students pursuing a bachelor's degree. The American survey history courses meet the state's requirement for six hours of American history. In addition to the survey courses, the program also includes classes in Western Civilization, History of Texas, History of Women in America, Survey of the History of American Religion, and Introduction to American and the World in the Twentieth Century.

Career Opportunities

Background acquired by students majoring in history prepares them for careers in a variety of fields such as journalism, law, politics, social work, television, radio, etc. A degree in history is not only beneficial to students seeking a career as a writer or teacher, but also will provide career opportunities in such adjacent fields as public history, museum curator, archivist, research associate for public and private agencies, and in developing fields like environmental historian for state agencies, contract work for legal firms and in the areas of computer/video/film documentaries.

AA Core Curriculum **45 credit hours**
Additional Graduation Requirement **3 credit hours**
 See page 51.

Recommended Electives		12 credit hours
HIST	2301	History of Texas3
HIST	2311	Western Civilization I3
HIST	2312	Western Civilization II3
ECON	2301	Principles of Macroeconomics3
ECON	2302	Principles of Microeconomics3
PHIL	1301	Introduction to Philosophy3
PHIL	2303	Introduction to Logic3
PSYC	2301	General Psychology3
SOCI	1301	Introduction to Sociology3
XXXX	x4xx	Foreign Language Sequence I4
XXXX	x4xx	Foreign Language Sequence II4

MUSIC

66 credit hours

Also see AAS – Music, Commercial

Department Chair:

Casey McClureSCC-B117972.516.5041

Academic Advisor:

Todd FieldsSCC-G139972.881.5903

The Associate of Arts degree with an emphasis in Music provides the approved Field of Study (FOS) for all music majors intending to transfer upon degree completion to a college or university. The curriculum offers the required music theory, ear training, keyboard skills, music literature, private applied study, and ensemble participation that all music majors must complete during their freshman and sophomore years.

Students should consult with the college or university that they plan attending before taking additional courses beyond those outlined in the Associate of Arts emphasis in music.

Career Opportunities

- Music Education
- Performer
- Composer

Music Core Curriculum 31 credit hours

ENGL	1301	Composition/Rhetoric I3
ENGL	1302	Composition/Rhetoric II3
GOVT	2301	American Government I3
GOVT	2302	American Government II3
HIST	1301	U. S. History I3
HIST	1302	U. S. History II3
MATH	1314	College Algebra ¹3
Natural Science ³		. . . . .4
PSYC	2301	General Psychology ²3
SPCH	1311	Fundamentals of Speech Communication ⁴3

Field of Study Courses		35 credit hours
MUAP	12xx	Principal Applied Music (one each semester)8
MUEN	x1xx	Ensemble (one each semester)4
MUSI	1116	Aural Skills I1
MUSI	1117	Aural Skills II1
MUSI	1181	Beginning Piano I ⁵1
MUSI	1182	Beginning Piano II ⁵1
MUSI	1307	Introduction to Music Literature3
MUSI	1311	Music Theory I3
MUSI	1312	Music Theory II3
MUSI	2116	Aural Skills III1
MUSI	2117	Aural Skills IV1
MUSI	2181	Beginning Piano III ⁵1
MUSI	2182	Beginning Piano IV ⁵1
MUSI	2311	Music Theory III3
MUSI	2312	Music Theory IV3

- 1 A higher level mathematics course may be substituted
- 2 May substitute SOCI 1301
- 3 Select from approved courses on page 51
- 4 May substitute SPCH 1315
- 5 All music majors must see the department chair. Students exempted from Beginning Piano classes must substitute up to four (4) credit hours from the following: MUAP 11xx, MUSI 1183, MUSI 1184, MUSI 1192, MUSI 1193, MUSI 2192, or MUSI 2193.

NURSING

71 credit hours

Program Director:

Nell Ard, Ph.D., CNS, RNC . .CPC-E310972.548.6883

Academic Advisor:

Lynne MeyerCPC-A108B972.548.6778

The Nursing Field of Study (FOS) was prepared by the Texas Higher Education Coordinating Board to delineate a set of courses which will satisfy the lower division requirements for a bachelor's degree in nursing. The courses identified in the FOS serve as the lower division requirements of all public four-year colleges and universities in the state of Texas for students seeking a Bachelor of Science in Nursing (BSN) degree and are fully transferable. The completed FOS is designed to facilitate the articulation of a nurse from the associate degree level to the BSN level. The FOS was also designed to facilitate transfer from one associate degree program to another within the state of Texas.

Collin's nursing program has adopted an integrated curriculum approach to the FOS. In order to complete the FOS, students must be admitted into the AAS RN program.

Students should check with an academic advisor or their transfer college or university for additional and/or specific degree requirements.

NOTE: The second digit in a course number indicates the number of credit hours for that course.

Career Opportunities

A nursing career is a wonderful opportunity to provide care and service to others. Currently, the United States is experiencing a shortage of nurses which has opened many career opportunities even for the beginning nurse. Nurses have a variety of settings they can work in: hospitals, clinics, home health agencies, schools, and industry. There are also a variety of areas to specialize in such as medical-surgical, maternal-child, pediatrics, critical care, psychiatric/mental health, perioperative, and community.

AA Core Curriculum **45 credit hours**
Additional Graduation Requirement **3 credit hours**
 See page 51.

Core curriculum courses are also included in the FOS listed below and will satisfy requirements for both the core curriculum and the FOS. In order to complete the FOS, students must be admitted into the AAS RN program.

Field of Study **35 credit hours**

Academic Courses

BIOL	1322	General Nutrition	.....3
BIOL	2401	Anatomy and Physiology I	.....4
BIOL	2402	Anatomy and Physiology II	.....4
BIOL	2421	Microbiology	.....4
CHEM	1405 or		
	1411	Introduction to -or- General Chemistry I	.....4
MATH	1342	Statistics	.....3
PSYC	2301	General Psychology	.....3
Nursing Content Courses			
RNSG	1523	Introduction to Professional Nursing for Integrated Programs ¹	.....5
RNSG	2504	Integrated Care of the Client with Common Health Care Needs ²	.....5

- 1 Corequisite courses include: RNSG 1219 and RNSG 1360
- 2 Corequisite courses include: RNSG 1229 and RNSG 1361

PARALEGAL/LEGAL ASSISTANT

60 credit hours

Also see Associate of Applied Science – Paralegal/Legal Assistant, page 123.

Department Chair:

Tom HudginsSCC-G225972.516.5060

Academic Advisor:

Al GoberPRC-F134972.377.1780

The Texas Woman’s University (TWU) and Collin Paralegal programs entered an articulation agreement, effective fall 1999, which establishes a plan for students to obtain an AA or AAS degree from Collin and a Bachelor of Science in Government – Legal Studies

Emphasis from TWU. Students pursuing this plan will be assured transfer of all Collin legal courses toward the BS at TWU. A similar articulation agreement for the AA, effective fall 2004, has been established with Texas A&M University-Commerce for the Bachelor of Arts/Science in Political Science with Emphasis in Paralegal Studies degree.

Career Opportunities

Employment opportunities for entry-level paralegals/legal assistants include the following:

- Law firms
- Corporations
- Governmental agencies

AA Core Curriculum **45 credit hours**
Additional Graduation Requirement **3 credit hours**
 See page 51.

Recommended Electives **12 credit hours***

LGLA	1303	Legal Research	.....3
LGLA	1307	Introduction to Law and the Legal Profession	.....3
LGLA	1346	Civil Litigation I	.....3
LGLA	1353	Wills, Trusts, and Public Administration	.....3
LGLA	1355	Family Law	.....3
LGLA	2307	Law Office Management	.....3

* LGLA 1303, LGLA 1307, LGLA 1346, LGLA 1353, LGLA 1355, and LGLA 2307 are accepted for transfer under the TWU/Collin articulation agreement. LGLA 1303, LGLA 1307, LGLA 1353, and LGLA 1355 are accepted for transfer under the A&M-Commerce/Collin articulation agreement. Additional hours may be required for transfer. Contact the department chair.

PHILOSOPHY

60 credit hours

Department Chair:

Carolyn PerrySCC-BB229972.881.5140

Academic Advisor:

Amy ThroopPRC-F132972.377.1513

The Philosophy program seeks to develop men and women dedicated to the pursuit of knowledge. Students become acquainted with the main problems of philosophy. Emphasis is placed on philosophical thinking that enables graduates to integrate their work and their lives.

Career Opportunities

- Preparation for those who plan to major in philosophy at a college or university
- Preparation for related fields such as law, government, education, business, science, and the humanities

NOTE: The second digit in a course number indicates the number of credit hours for that course.

AA Core Curriculum **45 credit hours**
Additional Graduation Requirement **3 credit hours**
 See page 51.

Recommended Electives **12 credit hours**

PHIL	1301	Introduction to Philosophy	3
PHIL	1304	Comparative Religion	3
PHIL	2303	Introduction to Logic	3
PHIL	2306	Introduction to Ethics	3
PHIL	2307	Introduction to Social and Political Philosophy	3
PHIL	2321	Philosophy of Religion	3
PHIL	2371	Philosophy of Art/Aesthetics	3
ENGL	2322	British Literature I	3
ENGL	2323	British Literature II	3
ENGL	2332	World Literature I	3
ENGL	2333	World Literature II	3
GOVT	2304	Introduction to Political Science	3
HIST	2311	Western Civilization I	3
HIST	2312	Western Civilization II	3
XXXX	x4xx	Foreign Language Sequence I	4
XXXX	x4xx	Foreign Language Sequence II	4

PHOTOGRAPHY

60 credit hours

Department Chair:

Byrd WilliamsSCC-H206972.881.5727

Academic Advisor:

Todd FieldsSCC-G139972.881.5903

The Photography world is now the Imaging universe. Contemporary industry paradigm change dictates a new breed of visual athlete. An emphasis in Photography will produce a student with the visual literacy needed to function in today's image obsessed environment. Technical skills with critical software/hardware applications, as well as conceptual understanding are covered in great detail.

This program includes intensive investigations into classic art photography techniques and approaches, studio lighting for portrait, fashion and product, comprehensive creative solutions, installation and image/text issues, graphic design specifics and contemporary digital workflow.

The state-of-the-art Photography facility is one of the best in the state and includes a fully equipped, 18 work station G5 lab, a digital media room with drum scanners and printers up to 44 inches, double studio with 3000 and 6000 watt second strobe set ups, two 20 station archival black and white dark rooms, 30-inch color C print processor, 2 film processing rooms, equipment check out with medium and large format cameras, digital equipment, and portable lighting equipment available.

The faculty is fully credentialed and consists of 3 full time and 10 associates, including professors from major graduate programs across

the country, as well as working professionals from the regional commercial industry. For more information about Collin's Photography Program, contact Byrd Williams, chair, at SCC-H206, 972.881.5727 or via email at bwilliams@ccc.edu.

Career Opportunities

Jobs in photography vary and can be applied to related disciplines:

- Architectural Photographer
- Commercial Illustration
- Digital Image Manipulation
- Freelance Work
- Historical Documentary Photographer
- Industrial Photography
- Multimedia Presentation
- News/Editorial
- Photo Lab Technician
- Portrait Studio
- Product Catalog Illustration
- Teaching

AA Core Curriculum **45 credit hours**
Additional Graduation Requirement **3 credit hours**
 See page 51.

Recommended Electives **12 credit hours**

ARTS	1313	Historical Foundation of Photography/Imaging Technology	3
ARTS	2356	Photography I	3
ARTS	2357	Photography II	3
ARTS	2371	Portfolio	3
ARTS	2389	Academic Co-op Arts/Photography	3
COMM	1316	News Photography I	3
COMM	1317	News Photography II	3
COMM	1319	Photo Editing and Layout	3

PSYCHOLOGY

60 credit hours

Department Chairs:

Valerie SmithSCC-B230972.578.5533

Academic Advisor:

Carie AndrewsSCC-G145972.881.5773

An Associate of Arts degree with an emphasis in Psychology serves as a foundation for continued studies in psychology. Since most careers in psychology require an advanced degree, many students transfer to a college or university and eventually enter graduate school in psychology. The Psychology program features a variety of introductory courses exploring the nature of behavior and mental processes. Course offerings include general psychology, applied psychology, and life-span psychology. These courses emphasize current psychological theory and research, as well as the practical application of the basic principles of

NOTE: The second digit in a course number indicates the number of credit hours for that course.

psychology to the student's daily life. Many courses in the program require participation in hands-on, experiential laboratory exercises that further emphasize practical application of course material.

Career Opportunities

Students who earn advanced degrees in psychology are often employed as counselors, psychotherapists, and mental health workers. With further study, a psychology degree may also be used as a stepping-stone to a career in education, business, law, or medicine.

AA Core Curriculum **45 credit hours**
 Additional Graduation Requirement **3 credit hours**
 See page 51.

Recommended Electives		12 credit hours
PSYC 2301	General Psychology	3
PSYC 2306	Human Sexuality	3
PSYC 2314	Life Span Psychology	3
PSYC 2315	Psychology of Adjustment	3
PSYC 2316	Psychology of Personality	3
PSYC 2319	Social Psychology	3
SOCI 1301	Introduction to Sociology	3
SOCI 1306	Social Problems	3
SOCI 2301	Marriage and Family	3

SOCIOLOGY

60 credit hours

Department Chair:

Valerie SmithSCC-B230972.578.5533

Academic Advisor:

Carie AndrewsSCC-G145972.881.5773

The Sociology program at Collin is designed to provide students with essential life skills and a deeper understanding of themselves, others, and the various social worlds that they inhabit. Sociology examines how social factors affect both behavior and the potential consequences of that behavior. It seeks to uncover the existence of social patterns, explain how they come to be so, and then explore the consequences of such patterns for different individuals, groups, collectives, and society at large. As such, sociology courses at Collin enable students to comprehend the widespread social changes that accompany society's immersion into the Information Age.

Critical thinking skills and a global perspective—attributes that will benefit students regardless of their major—are strongly emphasized in the program. Students who either major or minor in sociology will gain a solid foundation in the discipline and will be well prepared to transfer into a university program.

Career Opportunities

Sociology majors typically seek careers in teaching, social services, or research and planning in governmental or corporate settings.

Sociology is also an excellent minor for students considering careers in education, business, law, social work, medicine, or psychology. The knowledge gained from sociology courses enhances a student's chances of being successful in accomplishing their career and life goals.

AA Core Curriculum **45 credit hours**
 Additional Graduation Requirement **3 credit hours**
 See page 51.

Recommended Electives		12 credit hours
SOCI 1301	Introduction to Sociology	3
SOCI 1306	Social Problems	3
SOCI 2301	Marriage and Family	3
SOCI 2306	Human Sexuality	3
SOCI 2319	Minority Studies	3
ANTH 2351	Cultural Anthropology	3
PSYC 2301	General Psychology	3
PSYC 2314	Life Span Psychology	3
PSYC 2316	Psychology of Personality	3
PSYC 2319	Social Psychology	3

SPANISH

60 credit hours

Department Chair:

Sherry RhodesSCC-I206972.516.5063

Academic Advisor:

Amy ThroopPRC-F132972.377.1513

The Associate of Arts degree with an emphasis in Spanish provides the essential language background for the advanced study of Spanish, for the mastery of the competencies in listening, speaking, and writing the language, and for a more rapid acquisition of other foreign languages (such as romance languages like French.) The courses are oral-proficiency based in order to enable the student to converse in Spanish as quickly as possible.

Career Opportunities

The demand for Spanish both in the community and the business environment is growing rapidly. Combining Spanish with another field can expand opportunities in nursing, teaching, computer science, sociology, banking, counseling, law, and many other areas.

AA Core Curriculum **45 credit hours**
 Additional Graduation Requirement **3 credit hours**
 See page 51.

NOTE: The second digit in a course number indicates the number of credit hours for that course.

Recommended Electives		12 credit hours
SPAN 1300	Conversational Spanish I	.....3
SPAN 1310	Conversational Spanish II	.....3
SPAN 1411	Beginning Spanish I	.....4
SPAN 1412	Beginning Spanish II	.....4
SPAN 2311	Intermediate Spanish I	.....3
SPAN 2312	Intermediate Spanish II	.....3
SPAN 2321	Spanish Literature I	.....3
SPAN 2322	Spanish Literature II	.....3

SPEECH COMMUNICATION

60 credit hours
 For information on the Communication Field of Study, see pages 55-56.

Department Chair:

Sherry RhodesSCC-I206972.516.5063

Academic Advisor:

Amy ThroopPRC-F132972.377.1513

The Associate of Arts degree with an emphasis in Speech Communication gives students a broad background in communication competencies. Speech communication courses improve interpersonal communication skills and teach presentation techniques. Students taking courses in Speech Communication gain enhanced awareness of the impact communication skills have both in the personal and professional arenas. Both the traditional rhetorical approach (oral presentation) and the behavioristic approach (communication theory and skill) are reflected in speech communication course offerings.

Students who desire practical experience in their career fields may enroll in an academic co-op course through Cooperative Work Experience.

Career Opportunities

The Associate of Arts degree with an emphasis in Speech Communication provides students with a solid foundation for careers that involve a high degree of interaction with the public. Occupations involving marketing research, conference and special events planning, product/service demonstrations, and sales are possible careers. The emphasis also offers the academic foundation to successfully complete a bachelor's degree at a college or university, and then to pursue a career in fields such as mass media, public relations, law, government, personnel, employee relations, and education.

AA Core Curriculum

Additional Graduation Requirement

See page 51.

45 credit hours

3 credit hours

Recommended Electives		12 credit hours
SPCH 1311	Fundamentals of Speech Communication	.....3
SPCH 1315	Public Speaking I	.....3
SPCH 1321	Business and Professional Speaking	.....3
COMM 1307	Introduction to Mass Communication	.....3
COMM 2331	Radio and TV Announcing	.....3
COMM 2332	Radio/Television News	.....3

THEATRE

60 credit hours

Department Chair:

Brad BakerSCC-C155972.881.5679

Academic Advisor:

Todd FieldsSCC-G139972.881.5903

An emphasis in Theatre introduces students to the aesthetic and analytical elements of theatrical productions. It offers a full curriculum of theatre study including work in beginning and advanced acting, musical theatre, voice and diction, stage and lighting design, costume design and stage makeup, theatre history and dramatic literature, and specialty courses in circus skills, stunt work, stage combat, stage management and acting for the camera. The labs enable students to have hands-on experiences through performances, as well as shop and crew assignments. Studies include contemporary theories and classical aspects of theatrical productions.

The Theatre program has been nationally ranked among the Top 50 collegiate drama programs during five of the past eight years, and was the 1996 national champion of collegiate drama. Theatre program faculty and students have diverse experience in professional stage and motion picture work.

The state-of-the-art Theatre facility is comprised of three separate performance spaces including the 350 seat John Anthony Theatre, the 120 seat Black Box Theatre and the intimate ALT Lab Theatre. The multimillion dollar complex also houses two dressing rooms, a theatre box office, a costume vault and construction shop, a scene and paint shop, in addition to numerous acting and directing classroom spaces.

For more information about the Quad C Theatre program, contact Brad Baker, chair of theatre, at SCC-C155, 972.881.5679, or via e-mail at bbaker@cccdd.edu.

Career Opportunities

- Performer
- Producer/Director
- Theatre Education
- Scenic Artist
- Costume Technician
- Lighting Technician
- Sound Technician
- Technical Director/Stage Manager
- Theatre Marketing and Management

NOTE: The second digit in a course number indicates the number of credit hours for that course.

AA Core Curriculum
 Additional Graduation Requirement
 See page 51.

45 credit hours
 3 credit hours

Recommended Electives 12 credit hours

BMGT 1391	Special Topic: The Business of Theatre	.....3
DRAM 1120	Theatre Practicum - Performance	.....1
DRAM 1121	Theatre Practicum - Technical	.....1
DRAM 1161	Musical Theatre Workshop I	.....1
DRAM 1162	Musical Theatre Workshop II	.....1
DRAM 1310	Introduction to the Theatre	.....3
DRAM 1322	Stage Movement	.....3
DRAM 1323	Basic Theatre Practice	.....3
DRAM 1330	Stagecraft I	.....3
DRAM 1341	Theatrical Makeup	.....3
DRAM 1342	Introduction to Costuming	.....3
DRAM 1351	Acting I	.....3
DRAM 1352	Acting II	.....3
DRAM 1370	Stage Management	.....3
DRAM 1373	Sound Design for the Theatre	.....3
DRAM 2120	Demonstration Lab	.....1
DRAM 2331	Stagecraft II	.....3
DRAM 2336	Voice and Diction	.....3
DRAM 2351	Acting III: Improvisation	.....3
DRAM 2352	Acting IV: Acting for Film and Television	.....3
DRAM 2361	History of Theatre I	.....3
DRAM 2362	History of Theatre II	.....3
DRAM 2363	History of Musical Theatre	.....3
DRAM 2366	History of Film Making I	.....3
DRAM 2367	History of Film Making II	.....3
DRAM 2370	Theatre Outreach	.....3
DRAM 2372	Survey of Contemporary American Dramatic Literature	.....3
DRAM 2373	Costume Design II	.....3
DRAM 2374	Intermediate Makeup	.....3
DRAM 2375	Lighting Design	.....3
DRAM 2376	Stage Combat and Circus Skills	.....3
DRAM 2377	Shakespeare: Shakespeare on Stage (Acting Shakespeare)	.....3
DRAM 2378	Shakespeare: World and Words (Shakespearean Text Analysis)	.....3

AREAS OF EMPHASIS FOR THE ASSOCIATE OF ARTS IN TEACHING DEGREE

ASSOCIATE OF ARTS IN TEACHING

61-63 credit hours

Department Chair:

Elaine Boski-Wilkinson ...SCC-B132972.881.5967

Academic Advisor:

Carie AndrewsSCC-G145972.881.5773

Collin County Community College offers courses that fulfill the state requirements for an Associate of Arts in Teaching (AAT). Completion of an AAT will meet the lower division requirements for baccalaureate programs that lead to initial Texas teacher certification. Each of the three AAT specializations is designed to prepare teachers for the various certifications offered in Texas. The degree plan best suited to the desired certification should be followed and transferred to a university to complete Texas teacher certification requirements.

Students must contact the teacher education program at the specific college or university to which they plan to transfer for detailed information. Contact names and phone numbers are available from a Collin academic advisor, or go to <http://transferu.cccd.edu>.

To earn the AAT degree, students must complete a minimum of 60 credit hours including all of the required courses listed for the AAT area of emphasis which the student has selected (listed below) and earn a minimum cumulative GPA of 2.0.

AA or AS Core Curriculum 45 credit hours

See pages 51-52.

AAT in EC-4, 4-8, EC-12

The Early Childhood-Grade 4, Grade 4-8, Early Childhood-Grade 12 AAT satisfies the lower-division requirements for bachelor's degrees leading to initial Texas teacher certification in all EC-4 and 4-8 certification areas (except early childhood degree specialization) and EC-12 Special Education.

Required Courses 16 credit hours

EDUC 1301	Introduction to the Teaching Profession	.....3
EDUC 2301	Introduction to Special Populations	.....3
MATH 1350	Fundamentals of Mathematics I	.....3
MATH 1351	Fundamentals of Mathematics II	.....3
	Additional lab science ¹	.....4

1 Check with a Collin academic advisor and the receiving college or university for transfer requirements.

AAT in Grades 8-12, Other EC-12

The AAT for Grades 8-12 and other Early Childhood-Grade 12 licensure satisfies the lower-division requirements for bachelor's degrees leading to initial Texas teacher certification in all 8-12 and specialized EC-12 certification areas.

Required Courses		18 credit hours
EDUC 1301	Introduction to the Teaching Profession	3
EDUC 2301	Introduction to Special Populations	3
Courses in academic disciplines or content-area teaching fields content ¹		12

1 Check with a Collin academic advisor and the receiving college or university for recommended courses in teaching field prior to registering.

AAT in EC-4 Early Childhood Degree Specialization

The AAT in Early Childhood-Grade 4 Early Childhood Degree Specialization refers only to the degree program offered at a university and not to a particular SBEC certification area. All EC-4 Generalists (except EC-4 Generalist Bilingual and EC-4 Generalist ESL), no matter the university degree specialization, take the same TExES examination for certification and are certified to teach in any EC-4 classroom.

Required Courses		18 credit hours
MATH 1350	Fundamentals of Mathematics I	3
MATH 1351	Fundamentals of Mathematics II	3
TECA 1303	Family, School, and Community	3
TECA 1311	Educating Young Children	3
TECA 1318	Wellness of the Young Child	3
TECA 1354	Child Growth and Development	3

Teacher Certification Program

The Teacher Certification Program is located within the Center for Teaching, Learning, and Professional Development at CCCCD@ALLEN (inside Allen High School). For details, see page 47 or contact the program advisor.

Assistant Program Director:	
Sabrina Belt	AHS-A101972.377.1063
Program Advisor:	
Jyo Pai	AHS-A101972.377.1062

AREAS OF EMPHASIS FOR THE ASSOCIATE OF SCIENCE DEGREE

The Associate of Science degree provides general academic courses and electives for students who plan to transfer to a college or university. Because of the various transfer requirements at colleges and universities, and to ensure enrollment in appropriate courses, students should verify course transferability with a Collin academic advisor and/or the college or university that they plan to attend.

BIOLOGY

60 credit hours	
Department Chair:	
David McCulloch	SCC-I224972.881.5991
Academic Advisor:	
LeCrecia Robinson	SCC-G146972.881.5854

The Associate of Science degree with an emphasis in Biology provides an educational foundation to prepare students to pursue university studies leading to a bachelor's degree in a science-related field. Today, more than ever, an understanding of biology is critical to human life and the future of the planet. Fast-paced developments in medicine, genetics, and environmental issues can be bewildering without basic knowledge of biological science. An excellent instructional staff, computer-aided instruction, state-of-the-art laboratory facilities, and an emphasis on current research give biology students at Collin a personalized, high quality educational experience.

Career Opportunities

Many career opportunities are available in the biological sciences. In particular, the areas of health care, genetic research, and environmental science are predicted to provide many job opportunities in the coming decade. The career areas listed below require training beyond the Associate of Science degree and some will require a graduate degree.

- Agriculture
- Allied Health Sciences
- Biotechnology
- Botany
- Dentistry
- Ecology
- Environmental Science
- Genetic Counseling
- Genetic Engineering
- Marine Science
- Medical Research
- Medical Technology
- Medicine
- Microbiology

NOTE: The second digit in a course number indicates the number of credit hours for that course.

- Nutrition and Dietary Science
- Pharmacology
- Physical Therapy
- Science Education
- Toxicology
- Veterinary Science
- Wildlife Biology

AS Core Curriculum **45 credit hours**
Additional Graduation Requirement **3 credit hours**
 See pages 51-52.

Recommended Electives **12 credit hours**

BIOL	1322	General Nutrition	.....3
BIOL	1411	General Botany	.....4
BIOL	2389	Academic Co-op Biology	.....3
BIOL	2401	Anatomy and Physiology I	.....4
BIOL	2402	Anatomy and Physiology II	.....4
BIOL	2406	Environmental Biology	.....4
BIOL	2416	Genetics	.....4
BIOL	2421	Microbiology	.....4
BIOL	2428	Comparative Vertebrate Anatomy	.....4
CHEM	1411	General Chemistry I	.....4
CHEM	1412	General Chemistry II	.....4
CHEM	2423	Organic Chemistry I	.....4
CHEM	2425	Organic Chemistry II	.....4
MATH	1342	Statistics	.....3
PHYS	1401	General Physics I	.....4
PHYS	1402	General Physics II	.....4
PHYS	2425	University Physics I	.....4
PHYS	2426	University Physics II	.....4
SRGT	1301	Medical Terminology I	.....3

CHEMISTRY

60 credit hours

Department Chair:

Fred JurySCC-II03972.881.5883

Academic Advisor:

LeCrecia RobinsonSCC-G146972.881.5854

The Associate of Science degree with an emphasis in Chemistry establishes an academic foundation for further studies in the sciences. Courses include general chemistry and organic chemistry, as well as an introduction to chemistry designed for students who are novices in the science disciplines. Solving problems in chemistry requires creativity and curiosity as well as logic and reasoning. An excellent instructional staff, computer-aided instruction, laboratory facilities, and current scientific literature give chemistry students at Collin a personalized, high quality educational experience.

Career Opportunities

Careers listed below demand knowledge of chemistry and many require academic training beyond the Associate of Science degree and some will require graduate education.

- Biochemistry
- Chemistry
- Dentistry
- Environmental Science
- Forensic Chemistry
- Geophysics
- Materials Science
- Medicine
- Nanotechnology
- Pharmaceutical Science
- Science Education
- Toxicology
- Veterinary Science

AS Core Curriculum **45 credit hours**
Additional Graduation Requirement **3 credit hours**
 See pages 51-52.

Recommended Electives **12 credit hours**

CHEM	2389	Academic Co-op Chemistry	.....3
CHEM	2401	Analytical Chemistry	.....4
CHEM	2423	Organic Chemistry I	.....4
CHEM	2425	Organic Chemistry II	.....4
MATH	2320	Differential Equations	.....3
MATH	2415	Calculus III	.....4
PHYS	2425	University Physics I	.....4
PHYS	2426	University Physics II	.....4

COMPUTER SCIENCE

60 credit hours

Department Chair:

Bill SlaterSCC-J126972.881.5976

Academic Advisor:

Al GoberPRC-F134972.377.1780

The Associate of Science degree with an emphasis in Computer Science prepares students for work in a variety of related areas. In particular, students are prepared for transfer to a college or university where they can specialize in such disciplines as Computer Science and Computer Software Engineering. The coursework for a Bachelor of Science degree in Computer Science is similar at most colleges and universities; however, the student is advised to consult an academic advisor when deciding upon which university to attend and which course of study to pursue.

NOTE: The second digit in a course number indicates the number of credit hours for that course.

Career Opportunities

Software engineers and computer scientists currently occupy more than two-thirds of all technical and a large percentage of managerial positions in industry.

AS Core Curriculum

45 credit hours

Additional Graduation Requirement

3 credit hours

See pages 51-52.

Recommended Electives

12 credit hours

COSC 1436	Programming Fundamentals I – C++	.4
COSC 1337	Programming Fundamentals II – Java	.4
COSC 2336	Programming Fundamentals III – C++	.3
COSC 2325	Computer Organization and Machine Language	.3
COSC 1437	Programming Fundamentals II – C++	.4
COSC 2436	Programming Fundamentals III – Java	.4
MATH 2305	Discrete Mathematics I	.3
MATH 2413	Calculus I ¹	.4
MATH 2414	Calculus II ¹	.4

1 Recommended course for additional mathematics requirements

Field of Study

30 credit hours

Field of Study (FOS) curriculum is a set of courses that will satisfy the lower division requirements for a bachelor’s degree in a specific academic area at a general academic teaching institution. If a student successfully completes the field of study curriculum, that block of courses may be transferred to a general academic teaching institution and must be substituted for that institution’s lower division requirements for the degree program for the field of study into which the student transfers, and the student shall receive full academic credit toward the degree program for the block of courses transferred.

Within the FOS there are courses listed which will satisfy requirements for both the AS Core Curriculum and the FOS.

There are two tracks offered in the FOS (C++ Track and Java Track). Both tracks cover the same fundamental theory and material but use different languages.

Core Courses

COSC 1436	Programming Fundamentals I – C++ ¹	.4
COSC 2325	Computer Organization and Machine Language ²	.3
MATH 2413	Calculus I ³	.4
MATH 2414	Calculus II ³	.4
PHYS 2425	University Physics I ³	.4
PHYS 2426	University Physics II ³	.4

C++ Track Content Courses

COSC 1437	Programming Fundamentals II – C++ ¹	.4
COSC 2336	Programming Fundamentals III – C++ ¹	.3

Java Track Content Courses

COSC 1337	Programming Fundamentals II – Java ¹	.3
COSC 2436	Programming Fundamentals III – Java ¹	.4

- 1 COSC 1436 and COSC 1337/1437 are preparatory and sequential in nature; however, not all courses are required for the Computer Science major at all universities but may apply to general degree requirements.
 - a) COSC 1436 is not part of the Computer Science major requirements at The University of Texas at Austin, University of Texas at Arlington, University of Texas at Dallas, and Texas A&M University.
 - b) COSC 1337 and COSC 1437 are not part of the Computer Science major requirements at The University of Texas at Austin. Preparatory courses such as COSC 1436 and COSC 1337/1437 will assist students that need additional background but do not apply toward the computer science major requirements.
- 2 COSC 2325/2425 is not part of the Computer Science major requirements at the University of Texas at Austin or Texas A&M University but may be applied to general degree requirements.
- 3 It is recommended that students complete the math sequence, physics sequence, and computer science sequence at the same institution to reduce the likelihood of potential gaps in the curriculum.

ENGINEERING

60 credit hours

Department Chair:

Wayne JonesPRC-H230A972.377.1676

Academic Advisor:

Terrence BrennanPRC-F131972.377.1771

The Engineering Field of Study is preparation for a Bachelor of Science in several disciplines within the school of engineering at a college or university. The completed Field of Study is designed to transfer to any Texas public college or university.

Career Opportunities

Engineers presently occupy more than two-thirds of all technical and a large percentage of managerial positions in industry. The Engineering program prepares students for transfer to a college or university where they can specialize in such disciplines as:

- Aerospace Engineering
- Agriculture Engineering
- Biochemical and Food Engineering
- Bioengineering
- Chemical Engineering
- Civil Engineering
- Computer Science Engineering
- Electrical Engineering
- Forest Engineering

NOTE: The second digit in a course number indicates the number of credit hours for that course.

- Industrial Engineering
- Mechanical Engineering
- Nuclear Engineering
- Ocean Engineering
- Petroleum Engineering
- Radiological Health Engineering

AS Core Curriculum **45 credit hours**
Additional Graduation Requirement **3 credit hours**

See pages 51-52.

Students in this Field of Study need a higher proficiency in computer science and are advised to substitute COSC 1436 for COSC 1300. Within the FOS there are courses listed which will satisfy requirements for both the AS Core Curriculum and the FOS.

Field of Study **36 credit hours**

CHEM 1412	General Chemistry II ¹	.....4
ENGR 2301	Engineering Mechanics I	.....3
ENGR 2302	Engineering Mechanics II	.....3
ENGR 2305	Circuits I	.....3
MATH 2320	Differential Equations	.....3
MATH 2413	Calculus I ¹	.....4
MATH 2414	Calculus II	.....4
MATH 2415	Calculus III	.....4
PHYS 2425	University Physics I	.....4
PHYS 2426	University Physics II	.....4

1 Please check prerequisites for this course.

Recommended Elective

The following recommended elective may also be taken toward a bachelor's degree; however, it is not part of the FOS:

ENGR 1201	Introduction to Engineering2
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ENGINEERING TECHNOLOGY

Electronic and Computer Engineering Technology

60 credit hours

Department Chair:

Wayne JonesPRC-H230A972.377.1676
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Academic Advisor:

Terrence BrennanPRC-F131972.377.1771
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The Engineering Technology Field of Study (FOS) is preparation for a Bachelor of Science degree in Electronics and Computer Engineering Technology at a college or university. The completed Field of Study is designed to transfer to any Texas public college or university.

AS Core Curriculum **45 credit hours**
Additional Graduation Requirement **3 credit hours**

See pages 51-52.

Students in this FOS need a higher proficiency in computer science and are advised to substitute COSC 1436 for COSC 1300. Within the FOS there are courses listed which will satisfy requirements for both the AS Core Curriculum and the FOS.

Field of Study **35 credit hours**

CHEM 1411	General Chemistry I	.....4
ENGL 2311	Technical and Business Writing	.....3
ENGT 1401	Circuits I	.....4
ENGT 1402	Circuits II	.....4
ENGT 1407	Digital Fundamentals	.....4
MATH 2413	Calculus I ¹	.....4
MATH 2414	Calculus II	.....4
PHYS 2425	University Physics I	.....4
PHYS 2426	University Physics II	.....4

1 Please check prerequisites for this course

Recommended Elective

The following recommended elective may also be taken toward a bachelor's degree; however, it is not part of the FOS:

ENGR 1201	Introduction to Engineering2
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ENVIRONMENTAL SCIENCE

60 credit hours

Department Chair:

Daphne BabcockSCC-I226972.578.5518
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Academic Advisor:

LeCrecia RobinsonSCC-G146972.881.5854
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Environmental Science is a multidisciplinary field concerned with the interaction of processes that shape our natural environment, more specifically, understanding environmental problems and finding solutions to them. Students pursuing an Associate of Science degree with emphasis in Environmental Science will find that this field requires the understanding of a number of disciplines, including the biological, chemical, and physical sciences, engineering, law, economics, and environmental health and safety.

Career Opportunities

Environmental Science majors pursue careers in business and industry, government agencies, educational institutions, and private consulting firms in broad or specialized fields such as air pollution, laboratory services, solid and hazardous waste, natural resource management, regulatory affairs, remediation, risk assessment, toxicology, pollution prevention, health and safety, and water and wastewater.

NOTE: The second digit in a course number indicates the number of credit hours for that course.

AS Core Curriculum

Additional Graduation Requirement

See pages 51-52.

45 credit hours**3 credit hours**

- Land-use Planning
- Meteorology
- Mining Technology
- Oceanography
- Resource Management
- Seismology
- Soil Science
- Waste Management

Recommended Electives**12 credit hours**

ENVR	1401	Environmental Science I	.4
ENVR	1402	Environmental Science II	.4
BIOL	1406	General Biology I	.4
BIOL	2406	Environmental Biology	.4
CHEM	1411	General Chemistry I	.4
GEOL	1403	Physical Geology	.4
GEOL	1405	Earth Habitat	.4
GEOL	1445	Oceanography	.4
GEOL	1447	Introduction to Meteorology	.4
MATH	1342	Statistics	.3
MATH	2413	Calculus I	.4
PHYS	1401	General Physics I	.4

AS Core Curriculum

Additional Graduation Requirement

See pages 51-52.

45 credit hours**3 credit hours****Recommended Electives****12 credit hours**

BIOL	2406	Environmental Biology	.4
GEOL	1305	Natural Disasters	.3
GEOL	1346	Planetary Geology	.3
GEOL	1447	Introduction to Meteorology	.4
GEOL	1402	Dinosaurs!	.4
GEOL	1405	Earth Habitat	.4
GEOL	1445	Oceanography	.4
GEOL	2389	Academic Co-op Geology	.3
GEOL	2470	Archaeology Science	.4
CHEM	1411	General Chemistry I	.4
CHEM	1412	General Chemistry II	.4
ENGL	2311	Technical and Business Writing	.3
MATH	1342	Statistics	.3
MATH	2413	Calculus I	.4
MATH	2414	Calculus II	.4
PHYS	2425	University Physics I	.4
PHYS	2426	University Physics II	.4

GEOLOGY

60 credit hours

Department Chair:

Daphne BabcockSCC-I226972.578.5518

Academic Advisor:

LeCrecia RobinsonSCC-G146972.881.5854

The science of geology seeks to understand the earth and the natural processes that act within the earth's environment. The basic concepts of geology overlap several disciplines. Knowledge of geology provides a background for careers in geology and environmental fields.

The Associate of Science degree with an emphasis in Geology prepares the student to pursue university studies leading to a bachelor's degree. The basic AS program in geology prepares the student for further education in fields such as geology, environmental science, or resource management. Students seeking advanced degrees in geological or environmental fields should select electives related to their field of interest.

Career Opportunities

Geology students may select a career in a wide range of geological and environmental fields. The student should bear in mind that most of these career areas require education or training beyond the Associate of Science degree. Career fields available to the geology student include:

- Civil Engineering
- Environmental Engineering
- Environmental Science
- Geochemistry
- Geology
- Geophysics
- Hydrogeology

MATHEMATICS

60 credit hours

Department Chair:

Raja KhourySCC-J217972.881.5909

Academic Advisor:

LeCrecia RobinsonSCC-G146972.881.5854

The Mathematics program offers courses that meet general mathematics requirements for associate degrees and for transfer and technical programs. More advanced courses prepare students for majors in mathematics, science, and engineering. Most courses include a graphing calculator or computer use, and lab components emphasize applications of mathematical concepts. Mathematics instruction at Collin features a well-qualified instructional staff and a mathematics laboratory providing personal, computer, and audio-visual tutorial assistance.

NOTE: The second digit in a course number indicates the number of credit hours for that course.

Career Opportunities

Mathematics majors have many potential career opportunities. They may provide technical assistance in business, engineering, science, medicine, and many other fields. In addition, knowledge of mathematics plays a crucial role in providing access to a wide range of technical information in areas that are not so obviously dependent upon mathematics.

- Actuary
- Consultant
- Operations Researcher
- Statistician
- Teacher

AS Core Curriculum

Additional Graduation Requirement

See pages 51-52.

45 credit hours

3 credit hours

Recommended Electives

12 credit hours

MATH 1342	Statistics	.....3
MATH 1370	Introduction to the History of Mathematics	.....3
MATH 2305	Discrete Mathematics	.....3
MATH 2318	Linear Algebra	.....3
MATH 2320	Differential Equations	.....3
MATH 2373	Matrices Vectors, and Linear Programming	.....3
MATH 2412	Pre-Calculus for Mathematics and Science	.....4
MATH 2413	Calculus I	.....4
MATH 2414	Calculus II	.....4
MATH 2415	Calculus III	.....4
MATH 2417	Accelerated Calculus I	.....4
MATH 2419	Accelerated Calculus II	.....4
ENGL 2311	Technical and Business Writing	.....3
ENGL 23XX	Any Literature course	.....3
GEOL 2470	Archaeology Science	.....4
PHIL 2303	Introduction to Logic	.....3

PHYSICAL EDUCATION

60 credit hours

Department Chair:

Susan EvansSCC-A218972.881.5150

Academic Advisor:

Tom BaileySCC-G148972.578.5563

Students may earn an Associate of Science degree with an emphasis in Physical Education. The degree program emphasizes the inter-relatedness of several fields of study. Physical skills and knowledge are acquired through the physical education activity and theory classes.

Offerings in the humanities, social sciences, and biological sciences also prepare the student for a career in physical education.

Career Opportunities

Physical education offers challenging, rewarding careers. Listed below are some of the possibilities, many of which may require training beyond the Associate of Science degree.

- Aerobic Instructor
- Athletic Director
- Athletic Trainer
- Coach
- Fitness Center Instructor
- Personal Trainer
- Recreation Coordinator
- Sports Administrator
- Sports Medicine
- Teacher

AS Core Curriculum

Additional Graduation Requirement

See pages 51-52.

45 credit hours

3 credit hours

Recommended Electives

12 credit hours

PHED 1301	Foundations of Sport and Physical Activity	.....3
PHED 1304	Personal Health	.....3
PHED 1338	Concepts of Physical Fitness and Wellness	.....3
PHED 2389	Academic Co-op Physical Education	.....3
PHED/DANC	Any activity course	.....1
BIOL 2401	Anatomy and Physiology I	.....4
BIOL 2402	Anatomy and Physiology II	.....4
PSYC 2301	General Psychology	.....3

PHYSICS

60 credit hours

Department Chair:

Fred JurySCC-I103972.881.5883

Academic Advisor:

LeCrecia RobinsonSCC-G146972.881.5854

The science of physics seeks to understand the physical universe and deals with the behavior of matter and energy at the most fundamental level. By observation, physicists search for the basic principles that explain natural phenomena. The concepts of physics overlap many disciplines. Knowledge of physics provides a strong background for careers in science, engineering, computer technology, or education.

The Associate of Science degree with an emphasis in Physics prepares the student to pursue university studies leading to a bachelor's degree. The basic AS program, at the general physics level, prepares students for further education in fields such as biology, medicine, or secondary education. Students seeking a bachelor's degree in fields such as physics, engineering, or computer science will require the more advanced mathematics and physics.

Students planning to transfer to a college or university should check the specific degree plan requirements of their intended major.

Career Opportunities

Physics students may select a career in a wide range of scientific and technical fields. Students should bear in mind that most of these career areas require education or training beyond the Associate of Science degree. Depending on the career plans of the student, the Physics emphasis will be at the general physics or the college physics level. Career fields available to the physics student include:

- Aerospace Technology
- Astronomy
- Biophysics
- Chemistry
- Computer Science
- Elementary or Secondary Education
- Engineering Civil, Electrical, or Industrial
- Geophysics
- Hydrogeology
- Medicine
- Meteorology
- Patent Law
- Physics

AS Core Curriculum

Additional Graduation Requirement

See pages 51-52.

45 credit hours

3 credit hours

General Physics Level

Students seeking degrees in biology or pre-medicine should select general physics courses.

University Physics Level

Students seeking advanced degrees in science and engineering fields should select advanced levels of physics and mathematics courses (such as the courses listed below) for the AS degree.

PHYS	2425	University Physics I
PHYS	2426	University Physics II
MATH	2413	Calculus I
MATH	2414	Calculus II

Recommended Electives

12 credit hours

PHYS	1411	Elementary Astronomy	.....4
PHYS	2389	Academic Co-op Physics	.....3
CHEM	1411	General Chemistry I	.....4
CHEM	1412	General Chemistry II	.....4
ENGL	2311	Technical and Business Writing	.....3
MATH	2318	Linear Algebra	.....3
MATH	2320	Differential Equations	.....3
MATH	2412	Pre-Calculus for Mathematics and Science	.....4
MATH	2415	Calculus III	.....4

PRE-PROFESSIONAL PROGRAMS FOR TRANSFER STUDENTS

Professional schools, such as architecture, business, chiropractic, dental, engineering, law, medicine, pharmacy, and veterinary medicine require varying amounts of undergraduate preparation. Many of the required courses at the freshman and sophomore levels are offered at Collin. It is the responsibility of students to know the exact requirements for admission to the specific professional school to which they are applying. For assistance, additional information, and specific Texas and out-of-state requirements, consult a Collin academic advisor.

CENTER FOR ADVANCED STUDY IN MATHEMATICS AND NATURAL SCIENCES (CASMNS)

The Center includes advanced opportunities in biology, chemistry, mathematics, and physics. Upon successful completion of 12 or more CASMNS credit hours from the designated courses, the student will receive special recognition by the college, and a notation will be included on their official Collin transcript. Research opportunities are available for some students in the program.

Applicants are assessed on the following enrollment requirements and should:

- Be highly motivated majors in mathematics or natural science
- Maintain an overall grade point average of 3.0
- Have their transcripts evaluated to ensure that prerequisites have been met
- Be interviewed by a CASMNS instructor
- Be recommended by discipline faculty or be approved to participate by the Dean of Mathematics and Natural Sciences

Qualified students enrolled in these courses may be eligible for CASMNS credit activities:

- BIOL 1406, BIOL 1407, and BIOL 1411
- CHEM 1411, CHEM 1412, CHEM 2423, and CHEM 2425
- MATH 2417 and MATH 2419
- PHYS 2425 and PHYS 2426

See the course descriptions section in the back of this catalog for complete information on these courses.

PRE-ARCHITECTURE

Department Chair:

Warner RichesonPRC-H114972.377.1689

Collin offers the general education courses commonly required for students entering a baccalaureate degree program leading to careers in architecture, landscape architecture, building construction, and urban and regional planning. Recommended courses include:

NOTE: The second digit in a course number indicates the number of credit hours for that course.

Design	3 credit hours
ARTS 1311	
English	6 credit hours
ENGL 1301 and ENGL 1302	
Mathematics	8 credit hours
MATH 2413 and MATH 2414	
Physics	8 credit hours
PHYS 1401 and PHYS 1402	
Social and Behavioral Science	15 credit hours
GOVT 2301 and GOVT 2302	
HIST 1301 and HIST 1302	
PSYC 2301	

PRE-HEALTH PROGRAMS

Department Chairs:

Pre-Chiropractic, Pre-Clinical Lab Sciences, Pre-Pharmacy, Pre-Physician's Assistant, Pre-Veterinary Medicine

Mary WeisSCC-K244mweis@ccc cd.edu
Pre-Dental, Pre-Medicine

Jean HelgesonSCC-J138jhelgeson@ccc cd.edu
972.881.5885

Collin offers the courses that are most commonly recommended for the first two years of Pre-Chiropractic, Pre-Dental, Pre-Medicine, Pre-Pharmacy, and Pre-Veterinary Medicine programs at most colleges and universities. These courses provide a basic foundation in medical science and help establish basic clinical reasoning and clinical skills.

Most English, mathematics, and science courses have pre-requisite requirements. See the Course Descriptions section in the back of this catalog to determine the order in which to take these courses. To be assured students make correct choices from the courses listed below, and/or to learn of different or additional course requirements from the college or university; students should visit with a Collin academic advisor.

Recommended courses include:

Biology	8-16 credit hours
BIOL 1406 and BIOL 1407	
Two (2) sophomore-level Biology courses	
Chemistry	8-16 credit hours
CHEM 1411, CHEM 1412, CHEM 2423, and/or CHEM 2425	
English	6 credit hours
ENGL 1301 and ENGL 1302	
Mathematics	3-14 credit hours
MATH 1316, MATH 1342, MATH 2413, and/or MATH 2414	
Physics	0-8 credit hours
PHYS 1401, PHYS 1402, PHYS 2425, and/or PHYS 2426	
Social/Behavioral Science	15 credit hours
ANTH 2351, PSYC 2301, or SOCI 1301	
GOVT 2301 and GOVT 2302	
HIST 1301 and HIST 1302	

PRE-LAW

Department Chair:

Tom HudginsSCC-G225972.516.5060

Future Law School students should take courses that emphasize written and oral skills, research into problems facing society, logical reasoning, and business practices. For this occupation, students should consider taking courses in the following discipline areas:

- Accounting
- Business
- Economics
- English
- History
- Humanities
- Philosophy
- Psychology
- Sociology
- Speech

Course selections should always be discussed with a Collin academic advisor to ensure that students take the correct courses for their particular Pre-Law program.

An applicant for admission to a School of Law must have received, or have completed, all requirements for a baccalaureate degree from a college or university of approved standing prior to beginning work in a School of Law. Pre-Law students are encouraged to take the Law School Admission Test (LSAT) during the summer before their senior year.

WORKFORCE EDUCATION

programs

ASSOCIATE OF APPLIED SCIENCE DEGREE

The Associate of Applied Science degree (AAS) is awarded upon completion of a prescribed program of study designed to prepare students to enter and compete in the job market. AAS curricula are designed to enable the graduate to enter an occupation with marketable skills, an acceptable level of technical competency, and the ability to communicate effectively. In addition, the AAS degree helps prepare students for life-long learning.

The AAS degree is awarded to students who meet the specific degree requirements along with the graduation requirements listed on page 75. The Core Curriculum and the total number of hours required to graduate with an AAS degree vary among the programs; however, a minimum of 18 credit hours must be earned in residency at Collin.

WECM (Workforce Education Course Manual) courses are those courses designated by the Texas Higher Education Coordinating Board as workforce education (technical) courses offered for credit and CEUs (Continuing Education Units). While these courses are not designed to automatically transfer to public four-year colleges and universities, they will transfer to state community colleges, and selected colleges and universities.

PROGRAM ADVISORY COMMITTEES

Instructional divisions in each technical program area use advisory committees for program development, evaluation, long-range planning, development of employment opportunities for graduates, and other program issues. These committees provide an essential link between the education institution and the business community to ensure that graduates are adequately prepared for employment. Members of the advisory committees are selected from related industry, prospective employers, and other knowledgeable community representatives.

RECIPROCAL TUITION AGREEMENTS

Dallas County Community College District:

Collin County residents may enroll in select Workforce Education (WECM) programs offered by the Dallas County Community College



District (DCCCD) at in-county tuition rates. Likewise, Dallas County residents may enroll in select Workforce Education programs offered by Collin. For more information contact the Registrar's Office at CPC – 972.548.6710, PRC – 972.377.1744, or SCC – 972.881.5710.

AAS Core Curriculum

English 3 credit hours

Select one course:
ENGL 1301 or 1302

Speech Communications 3 credit hours

Select one course:
SPCH 1311, 1315, or 1321

Mathematics 3 credit hours

Select one course:
MATH 1xxx College-level mathematics course
MATH 2xxx College-level mathematics course
Math requirements may vary from the core curriculum. Check each degree plan.

Humanities/Fine Arts 3 credit hours

Select one course:
ARTS 1301, 1303, or 1304
DANC 2303
DRAM 1310, 2361, or 2362
ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2342, or 2343
FREN 2303 or 2304
HUMA 1301
MUSI 1306 or 1307
PHIL 1301, 1304, 2306, or 2307
SPAN 2321 or 2322

Social/Behavioral Science 3 credit hours

Select one course:
ANTH 2351
ECON 1301, 2301, or 2302
GOVT 2301 or 2302
HIST 1301, 1302, or 2301
PSYC 2301 or 2302
SOCI 1301

Physical Education/Dance 1 credit hour minimum

Select one course:
PHED/DANC Any activity course or PHED 1338

AAS Core Curriculum 16 credit hours minimum

Within each AAS program are suggested timelines for completion of degrees and certificates.

Note: The Biotechnology, Dental Hygiene, Emergency Medical Services Professions, Nursing, and Respiratory Care, programs at Collin have specific core curriculum requirements. Please refer to the respective degree plan for details.

Note: The computer literacy requirement is met through each AAS degree, either by integrating the competencies throughout the program's curriculum or by requiring a separate computer science course in the program's curriculum.

Certificate Programs

Collin offers certificate programs designed to meet specific employment needs of the community. Students who enroll in certificate programs are generally interested in re-entering the job market after an absence, changing careers, or upgrading job-related skills in order to enhance employment specialization. Although certificates are normally one year in length, the specific number of credit hours varies by program area.

Marketable Skills Achievement Awards

A Marketable Skills Achievement Award is a sequence of credit courses totaling 9-14 semester credit hours. Collin offers Marketable Skills Achievement Awards for the following:

- Child Development, contact Elaine Boski-Wilkinson at 972.881.5967
- Cisco Systems Networking (CCNA), contact Wayne Jones at 972.377.1676
- Computer-Aided Drafting and Design, contact Warner Richeson at 972.377.1689
- Computer Information Systems, contact George Jackson at 972.377.1613
- E-Business Media, contact George Jackson at 972.377.1613
- Interior and Architectural Design, contact Warner Richeson at 972.377.1689
- Marketing, contact Russell Kunz at 972.377.1702
- Office Systems Technology, contact Mary Jane Tobaben at 972.881.5170

APPLIED GRAPHIC DESIGN TECHNOLOGY

Department Chair:

Gaye Cooksey SCC-K119 972.881.5968

Academic Advisor:

Todd Fields SCC-G139 972.881.5903

The **Applied Graphic Design Technology** program (AAS and Certificate) focuses on traditional graphic design and art direction concepts while integrating the latest computer graphics techniques for executing designs for print media. The emphasis is on those skills that best prepare students for careers in advertising, commercial art, and corporate communication.

3-D Entertainment Animation/Interactive Media Specialization (AAS and Certificate): The 3-D Entertainment Animation emphasis focuses on 3-D animation incorporating high-end 3-D software. Students will develop skills in the concept and execution of 3-D animation targeted towards the entertainment industry as well as advertising and corporate communication. Skills are

NOTE: The second digit in a course number indicates the number of credit hours for that course.

developed in conceptualization, 2-D and 3-D computer graphics, 3-D animation techniques and digital video compositing. The Interactive Media emphasis helps students develop the skills necessary for creating interactive multimedia content which may be delivered via disk, computer networks, or the internet. Concepts include storyboard development, interactive design, digital graphics preparation, animation, and interactive scripting.

Digital Video/Web Design (AAS and Certificate): The Digital Video emphasis focuses on developing concept, design, and production skills necessary for creating digital video content. Students learn how to create concept storyboards, work with video cameras and lighting, and edit video with current software tools. The Web Design emphasis develops both traditional and cutting-edge skills. Students in this program learn techniques in concept development, graphic design, web graphics preparation, HTML/JavaScript and web animation. The emphasis in this program is on developing professional graphic design as well as vital technical skills.

The **Gaming Graphics and Animation Certificate Program** emphasizes the development of 2-D/3-D graphic and animation skills for the computer gaming industry. Students also learn the essentials of computer programming and how to integrate high-end 3-D computer graphic files with software game engines.

Contemporary industry paradigm change dictates a new breed of visual athlete. The **Commercial Photography Specialization** (AAS and Certificate) is designed to provide students with all the software skills needed as well as a solid visual foundation. This program includes intensive investigations into studio lighting, creative solutions, graphic design specifics, and contemporary digital workflow.

AAS – Applied Graphic Design Technology

64 credit hours

FIRST YEAR

First Semester

ARTC	1325	Introduction to Computer Graphics – Print
ARTC	2311	History of Communication Graphics
ARTS	1301	<i>Art Appreciation</i> ¹
ARTS	1316	Drawing I
ENGL	1301	<i>Composition/Rhetoric</i> ²

Second Semester

ARTC	1302	Digital Imaging I
ARTC	1305	Basic Graphic Design
ARTC	1321	Illustration Techniques I
ARTC	1353	Computer Illustration I
PHED/DANC		<i>Any activity course</i> ³
SPCH	1311	<i>Fundamentals of Speech Communication</i> ⁴

Summer

ARTC	1327	Typography
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SECOND YEAR

First Semester

ARTC	1349	Art Direction I
ARTC	2313	Digital Publishing II
ARTS	2356	Photography I
GRPH	2309	Electronic Pre-press Elective*

Second Semester

ARTC	2335	Portfolio Development for Graphic Design (Capstone)
ARTC	2349	Art Direction II
MATH	1332	<i>Contemporary Mathematics</i> ⁵
PSYC	2302	<i>Applied Psychology</i> ⁶
		Elective*

1 May substitute ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, HUMA 1301, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322

2 May substitute ENGL 1302

3 May substitute PHED 1338

4 May substitute SPCH 1315 or SPCH 1321

5 May substitute a higher level mathematics course – MATH 1314 is recommended for transfer students

6 May substitute ANTH 2351, ECON 1301, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, or SOCI 1301

* Suggested electives (6 credit hours): ARTC 2340, ARTS 1311, ARTS 1317, ARTS 2311, ARTS 2316, ARTS 2333, or GRPH 1380

3-D Entertainment Animation/Interactive Media Specialization

66 credit hours

FIRST YEAR

Summer

ARTC	1325	Introduction to Computer Graphics – Print
ARTV	1211	Storyboard
ENGL	1301	<i>Composition/Rhetoric I</i>
FLMC	1301	History of Animation

First Semester

ARTC	1302	Digital Imaging I
ARTV	1345	3-D Modeling and Rendering
MUSC	2351	Audio for Video
PHED/DANC		<i>Any activity course</i> ²
		Technical Course*

Second Semester

ARTC	1353	Computer Illustration I
ARTV	1303	Basic Animation

NOTE: *Italicized course numbers and titles denote AAS Core Curriculum.*

ARTS 1316 Drawing I
MATH 1332 Contemporary Mathematics³
Technical Course*

SECOND YEAR

First Semester

ARTV 1351 Digital Video
SPCH 1311 Fundamentals of Speech Communication⁴
Technical Course*
Technical Course*

Second Semester

ARTC 2335 Portfolio Development for Graphic Design
(Capstone)
ARTS 1301 Art Appreciation⁵
IMED 2313 Project Analysis and Design
PSYC 2301 General Psychology⁶
Technical Course*

1 May substitute ENGL 1302

2 May substitute PHED 1338

3 May substitute a higher level of mathematics – MATH 1314 is recommended for transfer students

4 May substitute SPCH 1315 or SPCH 1321

5 May substitute ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, HUMA 1301, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322

6 May substitute ANTH 2351, ECON 1301, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2302, or SOCI 1301

* Technical Courses:

If the student *emphasizes* 3-D Animation, they will take the following: ARTC 1341 (*Maya*); ARTC 2341 (*Maya*); ARTC 2372; FLMC 1331 (After Effects); FLMC 2331 (*Maya*)

If the student *emphasizes* Interactive Media, they will take the following: ARTC 1341 (Cinema or *Maya*); ARTC 2341 (Cinema or *Maya*); ARTC 2371; ARTC 2375; IMED 2301

Commercial Photography Specialization

60 credit hours

FIRST YEAR

First Semester

ARTC 1305 Basic Graphic Design
ARTC 1325 Introduction to Computer Graphics – Print
ARTS 1301 Art Appreciation¹
ARTS 2356 Photography I²
ENGL 1301 Composition/Rhetoric I³

Second Semester

GRPH 2309 Electronic Pre-Press
IMED 1316 Web Page Design I
PHED/DANC Any activity course⁴
PHTC 1349 Photo Digital Imaging I
SPCH 1311 Fundamentals of Speech Communication⁵
Option 1* Lighting Course

SECOND YEAR

First Semester

MATH 1332 Contemporary Mathematics⁶
PHTC 1328 Photographic Studio Management
PHTC 2349 Photo Digital Imaging II
Option 2** Creative Course
Elective***

Second Semester

ARTC 2335 Portfolio Development for Graphic Design
(Capstone)
ARTV 1351 Digital Video
PSYC 2302 Applied Psychology⁷
Elective***
Elective***

1 May substitute ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, HUMA 1301, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322

2 May substitute PHTC 1311

3 May substitute ENGL 1302

4 May substitute PHED 1338

5 May substitute SPCH 1315 or SPCH 1321

6 May substitute a higher-level mathematics course – MATH 1314 is recommended for transfer students

7 May substitute ANTH 2351, ECON 1301, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, or SOCI 1301

* Option 1 (Lighting course): PHTC 1306, PHTC 1345, or PHTC 1353

** Option 2 (Creative course): PHTC 1325 or PHTC 1343

*** Elective (minimum of 8 credit hours): ARTC 1353, ARTV 1211, COMM, 1316, PHTC 1341, PHTC 2331, or PHTC 2353

AAS Digital Video/Web Design

60 credit hours

FIRST YEAR

First Semester

ARTC 1325 Introduction to Computer Graphics – Print
ARTV 1211 Storyboard
MATH 1332 Contemporary Mathematics¹
Technical Course*

NOTE: The second digit in a course number indicates the number of credit hours for that course.

Second Semester

ARTC 1302 Digital Imaging I
ARTC 1353 Computer Illustration I
MUSC 2351 Audio for Video
SPCH 1311 Fundamentals of Speech Communication²
Elective**

Third Semester

IMED 1316 Web Page Design I
PHED/DANC Any activity course³
Technical Course*
Technical Course*

SECOND YEAR

First Semester

IMED 2315 Web Page Design II
ARTS 1301 Art Appreciation⁴
ENGL 1301 Composition/Rhetoric I⁵
Technical Course*
Technical Course*

Second Semester

ARTC 2335 Portfolio Development for Graphic Design
(Capstone)
IMED 2313 Project Analysis and Design
PSYC 2301 General Psychology⁶

1 May substitute a higher level mathematics course – MATH 1314 is recommended for transfer students

2 May substitute SPCH 1315 or SPCH 1321

3 May substitute PHED 1338

4 May substitute ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, HUMA 1301, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306; PHIL 2307, SPAN 2321, or SPAN 2322

5 May substitute ENGL 1302

6 May substitute ANTH 2351, ECON 1301, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2302, or SOCI 1301

* Technical Courses:

If the student *emphasizes* Digital Video, they will take the following: ARTV 1351; ARTV 2341; DRAM 2366; FLMC 1331 (After Effects); PHTC 1345

If the student *emphasizes* Web Design, they will take the following: ARTC 2311; ARTC 2375; ARTC 2378; GRPH 2305; IMED 2301.

** Suggested electives: (3 credit hours) ARTC 2340, ARTS 2356, COMM 1316, DRAM 1341, DRAM 2367, GRPH 1380, PHTC XXXX (maximum of 3 credit hours), or any other ARTC course approved by department chair.

Certificates

Applied Graphic Design Technology Certificate

39 credit hours

FIRST YEAR

Summer

ARTS 1316 Drawing I

First Semester

ARTC 1321 Illustration Techniques I
ARTC 1325 Introduction to Computer Graphics – Print
ARTC 2311 History of Communication Graphics

Second Semester

ARTC 1302 Digital Imaging I
ARTC 1305 Basic Graphic Design
ARTC 1353 Computer Illustration I

SECOND YEAR

First Semester

ARTC 1327 Typography
ARTC 1349 Art Direction I
GRPH 2309 Electronic Pre-press

Second Semester

ARTC 2313 Digital Publishing II
ARTC 2335 Portfolio Development for Graphic Design
(Capstone)
ARTC 2349 Art Direction II

3-D Entertainment Animation/Interactive Media Certificate

41 credit hours

FIRST YEAR

Summer

ARTC 1325 Introduction to Computer Graphics – Print
ARTV 1211 Storyboard
FLMC 1301 History of Animation

First Semester

ARTC 1302 Digital Imaging I
ARTV 1345 3-D Modeling and Rendering
Technical Course*

Second Semester

ARTC 1353 Computer Illustration I
ARTV 1303 Basic Animation
Technical Course*

SECOND YEAR

First Semester

ARTV 1351 Digital Video
Technical Course*
Technical Course*

Second Semester

ARTC 2335 Portfolio Development for Graphic Design
(Capstone)
Technical Course*

* Technical courses:

If the student *emphasizes* 3-D Animation, they will take the following: ARTC 1341 (*Maya*); ARTC 2341 (*Maya*); ARTC 2372; FLMC 1331 (After Effects); FLMC 2331 (*Maya*)

If the student *emphasizes* Interactive Media, they will take the following: ARTC 1341 (Cinema or *Maya*); ARTC 2341 (Cinema or *Maya*); ARTC 2371; ARTC 2375; IMED 2301

Commercial Photography Specialization

38-40 credit hours

FIRST YEAR

First Semester

ARTC 1305 Basic Graphic Design
ARTC 1325 Introduction to Computer Graphics – Print
ARTS 2356 Photography I¹

Second Semester

GRPH 2309 Electronic Pre-Press
IMED 1316 Web Page Design I
PHTC 1349 Photo Digital Imaging I
Option 1* Lighting Course

SECOND YEAR

First Semester

PHTC 1328 Photographic Studio Management
PHTC 2349 Photo Digital Imaging II
Option 2** Creative Course
Elective***

Second Semester

ARTC 2335 Portfolio Development for Graphic Design
(Capstone)
ARTV 1351 Digital Video

1 Student may substitute PHTC 1311

* Option 1 (Lighting course): PHTC 1306, PHTC 1345, or PHTC 1353

** Option 2 (Creative course): PHTC 1325 or PHTC 1343

*** Elective: ARTC 1353, or ARTV 1211

Digital Video/Web Design Certificate

38 credit hours

FIRST YEAR

First Semester

ARTC 1325 Introduction to Computer Graphics – Print
ARTV 1211 Storyboard
Technical Course *

Second Semester

ARTC 1302 Digital Imaging I
ARTC 1353 Computer Illustration I
Technical Course*

SECOND YEAR

First Semester

IMED 1316 Web Page Design I
IMED 2313 Project Analysis and Design
Technical Course*
Technical Course*

Second Semester

ARTC 2335 Portfolio Development for Graphic Design
(Capstone)
IMED 2315 Web Page Design II
Technical Course*

* Technical Courses:

If the student *emphasizes* Digital Video, they will take the following: ARTV 1351; ARTV 2341; DRAM 2366; FLMC 1331 (After Effects); PHTC 1345

If the student *emphasizes* Web Design, they will take the following: ARTC 2311; ARTC 2375; ARTC 2378; GRPH 2305; IMED 2301

Gaming Graphics and Animation Certificate

40 credit hours

FIRST YEAR

Summer

ARTC 1325 Introduction to Computer Graphics – Print
ARTV 1211 Storyboard

First Semester

ARTC 1302 Digital Imaging I
ARTV 1345 3-D Modeling and Rendering
COSC 1436 Programming Fundamentals I – C++

Second Semester

ARTC 1341 3-D Animation I (*Maya*)
ARTC 1353 Computer Illustration I
COSC 1437 Programming Fundamentals II – C++

SECOND YEAR

First Semester

ARTC 2341 3-D Animation II (*Maya*)
ARTV 1343 Digital Sound
IMED 2301 Instructional Design

Second Semester

ARTC 2379 Computer Game Development (Capstone)
FLMC 2331 Computers in Video Production II

BIOTECHNOLOGY

Program Coordinator:

Bridgette KirkpatrickSCC-I208972.578.5513

Academic Advisor:

LeCrecia RobinsonSCC-G146972.881.5854

Collin's Biotechnology program prepares students for entry-level positions in biological research and industrial laboratories. Returning students can also benefit from the new methods and technologies related to agriculture, medicine, pharmaceuticals, and other applications.

Students planning to transfer to a college or university should check with the Collin academic advisor prior to beginning this program.

Career Opportunities

Biotechnology laboratory positions are available at colleges, universities, medical schools, and pharmaceutical and industrial companies. Additionally, other new occupations are rapidly developing in Texas and other parts of the nation. Positions currently within the biotechnology field include:

- Biotechnology Production/QC Assistant/Technician
- Biotechnology Research Assistant/Technician
- Environmental Technical Work (Waste Products, Pollutants)
- Federal Government Technical Work in Agriculture, Defense, and Interior Departments
- Forensic Laboratory Assistant/Technician
- Laboratory Management and Support Positions
- Medical Research Assistant/Technician
- Microbiological Research Assistant/Technician
- Pharmaceutical Research Assistant/Technician
- Technical Work in Manufacturing, Chemical, and Food Processing Industries

AAS – Biotechnology

67 credit hours

FIRST YEAR

First Semester

BITC	1311	Introduction to Biotechnology
BITC	1402	Biotechnology Laboratory Methods and Techniques
BIOL	1406	General Biology I
CHEM	1411	General Chemistry I
MATH	1342	<i>Statistics</i> ¹

Second Semester

BIOL	1407	General Biology II ²
BITC	2431	Cell Culture Techniques
CHEM	1412	General Chemistry II
ENGL	1301	<i>Composition/Rhetoric I</i> ³

Summer

HUMA	1301	<i>Introduction to the Humanities</i> ⁴
PHED/DANC		<i>Any activity course</i> ⁵
		Elective*

SECOND YEAR

First Semester

BIOL	2401	Anatomy and Physiology I ⁶
BITC	2411	Biotechnology Laboratory Instrumentation
COSC	1300	Computer Essentials
PSYC	2301	<i>General Psychology</i> ⁷

Second Semester

BITC	1350	Special Studies and Bioethical Issues of Biotechnology
BITC	2387	Internship – Biology Technician/Biotechnology Laboratory Technician (Capstone)
BITC	2441	Molecular Biology Techniques
SPCH	1311	<i>Fundamentals of Speech Communication</i>

- 1 May substitute MATH 1314
- 2 May substitute BIOL 1411, BIOL 2401, or BIOL 2404
- 3 May substitute ENGL 1302
- 4 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
- 5 May substitute PHED 1338
- 6 May substitute BIOL 2416, BIOL 2421, or CHEM 2423
- 7 May substitute ANTH 2351, ECON 1301, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1302, HIST 1302, HIST 2301, PSYC 2302, OR SOCI 1301

* Electives (3 credit hours): BITC 2386, ENGL 2311, or ENVR 1401

Note: A course may not be counted as both an elective and a biology requirement.

Certificate

Biotechnology Certificate

29 credit hours

First Semester

BIOL	1406	General Biology I
BITC	1311	Introduction to Biotechnology
BITC	1402	Biotechnology Laboratory Methods and Techniques
CHEM	1411	General Chemistry I

Second Semester

BIOL	2401	Anatomy and Physiology I ¹
BITC	2386	Internship – Biology Technician/Biotechnology Laboratory Technician (Capstone)
BITC	2441	Molecular Biology Techniques ²
		Elective*

- 1 May substitute BIOL 2416, BIOL 2421 or CHEM 2423
- 2 May substitute BITC 2431

NOTE: *Italicized course numbers and titles denote AAS Core Curriculum.*

* Elective (3 credit hours): BIOL 2404, BITC 1350, COSC 1300, ENGL 2311, or ENVR 1401

Note: A course may not be counted as both an elective and a biology requirement.

CHILD DEVELOPMENT

Also a Tech Prep Program

Also a Marketable Skills Achievement Award Program

Department Chair:

Elaine Boski-WilkinsonSCC-B132972.881.5967

Academic Advisor:

Carie AndrewsSCC-G145972.881.5773

The Child Development degree and certificate programs are designed to prepare individuals for entry-level positions working with young children and their families. The coursework can also be applicable as in-service training for teachers, administrators, nannies, and family day home providers. A developmental approach is emphasized which promotes optimal physical, social, emotional, and cognitive growth of children. Students learn management skills that allow them to provide quality programs in safe, nurturing environments.

The Child Development Associate (CDA) program provides performance-based training, assessment, and credentialing of childcare professionals who work with children from birth through age five. These caregivers demonstrate their ability to nurture children's physical, social, emotional, and intellectual growth in a child development framework.

Students planning to transfer to a college or university should check with the Collin academic advisor prior to beginning this program.

Notes:

"TECA" is the prefix for transfer courses.

All CDEC and TECA courses, except TECA 1354, require the student to complete a one-hour lab component.

Program Requirements:

To participate in the Child Development Lab School and receive credit for the lab component of courses, the following requirements must be met:

1. Enroll in a Collin child development course.
2. Within the first week of the first child development course, provide a copy of acceptable tuberculosis test results. Continuing students must submit acceptable tuberculosis results every two years.
3. Complete and sign a student record form as a contract to ensure the following:
 - Verification that the student has read and agrees to abide by the Texas Minimum Standards for day care centers
 - Verification that the student has read and agrees to follow the laboratory student guidelines

- Information provided to a criminal history check by the Texas Department of Protective and Regulatory Services
- Confirmation that confidentiality and professional discretion will be observed at all times
- Notarized affidavit
- Personal release for videotaping for instructional purposes

Our records should always contain current personal information. It is the student's responsibility to keep this information current.

Career Opportunities

The Child Development degree and certificates are designed to provide the necessary preparation to work as a day care director, teacher's aide, director/assistant director or manager of children's programs, or an educational director. The skills acquired will be directly applicable in a variety of facilities, including:

- Before and After School Programs
- Child Care Centers
- Church-sponsored Child Care
- Community Center Programs
- Corporate-sponsored Child Care
- Employer-sponsored Child Care
- Family Day Homes
- Hospital-sponsored Child Care
- Infant/Toddler Programs
- In-Home Care Giver or Nanny
- Parent and Child Study Programs
- Preschool Programs
- Public School Paraprofessional/Teacher's Aide

AAS – Child Development

62 credit hours

FIRST YEAR

First Semester

CDEC	1319	Child Guidance ¹
CDEC	1323	Observation and Assessment
ENGL	1301	Composition/Rhetoric ²
TECA	1311	Educating Young Children
TECA	1354	Child Growth and Development

Second Semester

CDEC	2326	Administration of Programs for Children I
PHED/DANC		Any activity course ³
PSYC	2302	Applied Psychology ⁴
SPCH	1311	Fundamentals of Speech Communication ⁵
TECA	1303	Family, School, and Community
Elective**		

NOTE: The second digit in a course number indicates the number of credit hours for that course.

SECOND YEAR

First Semester

CDEC	1313	Curriculum Resources for Early Childhood Programs ¹
CDEC	2304	Child Abuse and Neglect
CDEC	2328	Administration of Programs for Children II
COSC	1300	Computer Essentials
TECA	1318	Wellness of the Young Child
Elective**		

Second Semester

CDEC	2166	Practicum – Child Care Provider/Assistant (Capstone)
CDEC	2336	Administration of Programs for Children III
HUMA	1301	<i>Introduction to the Humanities</i> ⁶
MATH	1332	<i>Contemporary Mathematics</i> ⁷
Elective**		

- 1 Tech Prep course which may have been completed in high school
- 2 May substitute ENGL 1302
- 3 May substitute PHED 1338
- 4 May substitute ANTH 2351, ECON 1301, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, or SOCI 1301
- 5 May substitute SPCH 1315 or SPCH 1321
- 6 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
- 7 May substitute MATH 1324 or MATH 1314 – recommended for transfer students.

** Suggested electives (9 credit hours): CDEC 1317, CDEC 1330, CDEC 1342, CDEC 1356, CDEC 1358, CDEC 1359, CDEC 1392, CDEC 1394, CDEC 1396, CDEC 2307, CDEC 2315, CDEC 2322, CDEC 2324, CDEC 2341, CDEC 2385

Certificates

Child Development Certificate

28 credit hours

First Semester

CDEC	1313	Curriculum Resources for Early Childhood Programs ¹
CDEC	1323	Observation and Assessment
TECA	1311	Educating Young Children
TECA	1318	Wellness of the Young Child
TECA	1354	Child Growth and Development

Second Semester

CDEC	1319	Child Guidance ¹
CDEC	1335	Early Childhood Development: 3-5 Years ¹
CDEC	1359	Children with Special Needs

CDEC	2166	Practicum – Child Care Provider/Assistant (Capstone)
TECA	1303	Family, School, and Community

- 1 Tech Prep course which may have been completed in high school

Child Development Associate Certificate

16 credit hours

First Semester

CDEC	1317	Child Development Associate Training I
CDEC	2166	Practicum – Child Care Provider/Assistant (Capstone)
CDEC	2322	Child Development Associate Training II
CDEC	2324	Child Development Associate Training III
TECA	1318	Wellness of the Young Child
TECA	1354	Child Growth and Development

Early Childhood Administrator Specialization

28 credit hours

First Semester

CDEC	1323	Observation and Assessment
CDEC	2326	Administration of Programs for Children I
TECA	1311	Educating Young Children
TECA	1318	Wellness of the Young Child
TECA	1354	Child Growth and Development

Second Semester

CDEC	2166	Practicum – Child Care Provider/Assistant (Capstone)
CDEC	2328	Administration of Programs for Children II
CDEC	2336	Administration of Programs for Children III
CDEC	2304	Child Abuse and Neglect
TECA	1303	Family, School, and Community

Early Childhood Special Educator Specialization

28 credit hours

First Semester

CDEC	1319	Child Guidance ¹
CDEC	1323	Observation and Assessment
CDEC	1359	Children with Special Needs
TECA	1311	Educating Young Children
TECA	1354	Child Growth and Development

Second Semester

CDEC	1340	Instructional Techniques for Children with Special Needs
CDEC	2166	Practicum – Child Care Provider/Assistant (Capstone)
CDEC	2304	Child Abuse and Neglect
TECA	1303	Family, School, and Community
TECA	1318	Wellness of the Young Child

- 1 Tech Prep course which may have been completed in high school

NOTE: *Italicized course numbers and titles denote AAS Core Curriculum.*

Infant and Toddler Educator Specialization

28 credit hours

First Semester

CDEC	1321	The Infant and Toddler
CDEC	1323	Observation and Assessment
CDEC	2304	Child Abuse and Neglect
TECA	1303	Family, School, and Community
TECA	1311	Educating Young Children

Second Semester

CDEC	1339	Early Childhood Development: 0-3 Years
CDEC	1359	Children with Special Needs
CDEC	2166	Practicum – Child Care Provider/Assistant (Capstone)
TECA	1318	Wellness of the Young Child
TECA	1354	Child Growth and Development

School-Age Educator Specialization

25 credit hours

First Semester

CDEC	2341	The School Age Child
TECA	1311	Educating Young Children
TECA	1318	Wellness of the Young Child
TECA	1354	Child Growth and Development

Second Semester

CDEC	1319	Child Guidance ¹
CDEC	1330	Growth and Development: 6-14 Years
CDEC	1359	Children with Special Needs
CDEC	2166	Practicum – Child Care Provider/Assistant (Capstone)
TECA	1303	Family, School, and Community

1 Tech Prep course which may have been completed in high school

Teacher Assistant Specialization

16 credit hours

First Semester

CDEC	1330	Growth and Development: 6-14 Years
CDEC	1356	Emergent Literacy for Early Childhood
CDEC	1359	Children with Special Needs
CDEC	2166	Practicum – Child Care Provider/Assistant (Capstone)
CDEC	2307	Math and Science for Early Childhood
CDEC	2341	The School Age Child

Marketable Skills Achievement Awards

Some of the course in these award programs may require prerequisites. Please check the course descriptions in the back of this catalog.

MCAA – Child Development Administration of Programs for Children

9 credit hours

CDEC	2326	Administration of Programs for Children I
CDEC	2328	Administration of Programs for Children II
CDEC	2336	Administration of Programs for Children III

MCAA – Child Development Associate Training

9 credit hours

CDEC	1317	Child Development Associate Training I
CDEC	2322	Child Development Associate Training II
CDEC	2324	Child Development Associate Training III

COMPUTER-AIDED DRAFTING AND DESIGN

Also a Tech Prep Program

Also a Marketable Skills Achievement Award Program

Department Chair:

Warner RichesonPRC-H114972.377.1689

Academic Advisor:

Terrence BrennanPRC-F131972.377.1771

High-tech industries are constantly creating new career opportunities in exciting, highly specialized fields. The degree opportunities in Computer-Aided Drafting and Design (CADD) provide both an educational foundation in computer-aided design and insight into current industry practices. Students in Collin's intensive CADD hands-on training program are taught the skills a designer, CADD operator, architect, or engineer needs for successful CADD operations.

Students planning to transfer to a college or university should check with the Collin academic advisor prior to beginning this program to verify course transferability.

Career Opportunities

Enjoy a profitable career in a modern business environment. Expanding job market possibilities related to drafting and design are available in:

- Aircraft Industry
- Architectural Firms
- Computer Centers
- Electronics Firms
- Governmental Agencies
- Manufacturing Firms
- Printed Circuit Board Design Companies
- Research Organizations
- Semiconductor Manufacturing Firms
- Telecommunications Industry

AAS – Computer-Aided Drafting and Design

61 credit hours

FIRST YEAR

First Semester

DFTG	1309	Basic Computer-Aided Drafting ¹
ENGL	1301	Composition/Rhetoric I
MATH	1314	College Algebra
PHYS	1401	General Physics I
SPCH	1311	Fundamentals of Speech Communication ³

Second Semester

DFTG	1305	Technical Drafting ¹
DFTG	2319	Intermediate Computer-Aided Drafting ¹
MATH	1316	Trigonometry
PHYS	1402	General Physics II

SECOND YEAR

First Semester

CETT	1409	DC-AC Circuits
DFTG	2332	Advanced Computer-Aided Drafting
HUMA	1301	Introduction to the Humanities ⁴
PHED/DANC		Any activity course ⁵
		Elective*
		Elective*

Second Semester

DFTG	2336	Computer-Aided Drafting Programming
DFTG	2381	Cooperative Education – Drafting and Design Technology/Technician, General (Capstone)
ECON	1301	Introduction to Economics ⁶
		Elective*
		Elective*

- 1 Tech Prep course which may have been completed in high school
 - 2 May substitute ENGL 1302
 - 3 May substitute SPCH 1315 or SPCH 1321
 - 4 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
 - 5 May substitute PHED 1338
 - 6 May substitute ANTH 2351, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301
- * Electives (12 credit hours): BMGT 2331, BUSI 1301, BUSI 2301, DFTG 1317, DFTG 1358, DFTG 1371, DFTG 1373, DFTG 1380, DFTG 1391, DFTG 2312, DFTG 2328, DFTG 2340, DFTG 2352, DFTG 2372, or ENGL 2311

AAS – Electronic Design and Electronic Design Automation

can be found on page 99.

AAS – Integrated Circuit Design and Layout Specialization

63 credit hours

FIRST YEAR

First Semester

CETT	1403	DC Circuits
DFTG	1309	Basic Computer-Aided Drafting ¹
ENGL	1301	Composition/Rhetoric I
HUMA	1301	Introduction to the Humanities ³
MATH	1314	College Algebra

Second Semester

CETT	1325	Digital Fundamentals
DFTG	1358	Electrical/Electronics Drafting
DFTG	2413	Basic Integrated Circuit Design
PHED/DANC		Any activity course ⁴
SMFT	1343	Semiconductor Manufacturing Technology I

Summer

DFTG	1305	Technical Drafting ⁵
ECON	1301	Introduction to Economics ⁶

SECOND YEAR

First Semester

CETT	1405	AC Circuits
CETT	1421	Electronic Fabrication
DFTG	2305	Printed Circuit Board Design
ITNW	2373	Linux Operating System
SPCH	1311	Fundamentals of Speech Communication ⁷

Second Semester

DFTG	1394	Special Topics in Electrical/Electronics Drafting and Electrical/Electronics CAD/CADD
DFTG	2433	Advanced Integrated Circuit Design (Capstone)
		Elective*

- 1 Tech Prep course which may have been completed in high school
- 2 May substitute ENGL 1302
- 3 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
- 4 May substitute PHED 1338
- 5 May substitute ENGR 1304
- 6 May substitute ANTH 2351, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301

NOTE: *Italicized course numbers and titles denote AAS Core Curriculum.*

7 May substitute SPCH 1315 or SPCH 1321

* Electives (3 credit hours): DFTG 1317, DFTG 1373, DFTG 1380, DFTG 1391, DFTG 2300, DFTG 2332, DFTG 2336, DFTG 2356, or EECT 1448

Certificates

Computer-Aided Drafting and Design Certificate

30 credit hours

FIRST YEAR

First Semester

DFTG 1309 Basic Computer-Aided Drafting¹

Second Semester

DFTG 1305 Technical Drafting¹

DFTG 2319 Intermediate Computer-Aided Drafting¹

SECOND YEAR

First Semester

DFTG 2312 Technical Illustration

DFTG 2332 Advanced Computer-Aided Drafting

Elective*

Second Semester

DFTG 1373 3-D Studio Max²

DFTG 2336 Computer-Aided Drafting Programming (Capstone)

Elective*

Elective*

1 Tech Prep course which may have been completed in high school

2 May substitute DFTG 1391

* Electives (9 credit hours): DFTG 1317, DFTG 1321, DFTG 1380, DFTG 2300, DFTG 2310, DFTG 2317, DFTG 2321, DFTG 2328, DFTG 2340, DFTG 2350, DFTG 2352, DFTG 2372, or DFTG 2381

AutoCAD Specialization

15 credit hours

FIRST YEAR

First Semester

DFTG 1309 Basic Computer-Aided Drafting¹

Second Semester

DFTG 2319 Intermediate Computer-Aided Drafting¹

SECOND YEAR

First Semester

DFTG 1373 3-D Studio Max²

DFTG 2332 Advanced Computer-Aided Drafting

DFTG 2336 Computer-Aided Drafting Programming (Capstone)

1 Tech Prep course which may have been completed in high school

2 May substitute DFTG 1391

Integrated Circuit Design and Layout Certificate

34 credit hours

First Semester

CETT 1403 DC Circuits

DFTG 1309 Basic Computer-Aided Drafting¹

DFTG 1358 Electrical/Electronics Drafting

DFTG 2413 Basic Integrated Circuit Design

Second Semester

CETT 1325 Digital Fundamentals

DFTG 2305 Printed Circuit Board Design

ITNW 2373 Linux Operating System

SMFT 1343 Semiconductor Manufacturing Technology I

Summer

CETT 1405 AC Circuits

DFTG 2433 Advanced Integrated Circuit Design (Capstone)

1 Tech Prep course which may have been completed in high school

Enhanced Skills Certificate – CADD

9 credit hours

The Enhanced Skills Certificate in Computer-Aided Drafting and Design provides additional training in specific job skills that supplement those acquired within the AAS degree program.

Prerequisite: Completion of the AAS in Computer-Aided Drafting and Design.

First Semester

DFTG 2340 Solid Modeling/Design Pro/Engineer

DFTG 1373 3-D Studio Max¹

DFTG 2312 Technical Illustration

1 May substitute DFTG 1391 or DFTG 2372

Marketable Skills Achievement Awards

MCAA – AutoCAD

9 credit hours

This program prepares students to design and draft in 2 dimensions and 3 dimensions. Also, students will be taught how to customize AutoCAD to enhance productivity.

Prerequisite: Basic computer skills. Having working knowledge of geometry will be a plus for students.

Career Options:

This program prepares students for job opportunities such as the following:

- Draftsman for a wide range of industries
- Graduate engineers and architects who need to update of add CADD skills to their capabilities

DFTG	1309	Basic Computer-Aided Drafting ¹
DFTG	2319	Intermediate Computer-Aided Drafting ¹
DFTG	2332	Advanced Computer-Aided Drafting

1 Tech Prep course which may have been completed in high school

MSAA – Integrated Circuit Design and Layout

9 credit hours

This program provides specific training in Integrated Circuit Design and Layout in preparation for work in the Semiconductor Industry. Mentor Graphics software is the tool utilized in this program.

Prerequisite: Training or industrial experience in electronics.

Career Options:

This program prepares students for job opportunities such as the following:

- Working for semiconductor companies as an Integrated Circuit Design and Layout technician
- Graduate engineers who are interested in a new career path

DFTG	1358	Electrical/Electronics Drafting
DFTG	2413	Basic Integrated Circuit Design
DFTG	2433	Advanced Integrated Circuit Design

MSAA – Pro/Engineer

9 credit hours

This program prepares students to design mechanical parts and assemblies using Pro/Engineer's Wildfire software.

Prerequisite: Basic computer and CADD or drafting skills. Having working knowledge of geometry will be a plus for students.

Career Options:

This program prepares students for job opportunities such as the following:

- Draftsman for a wide range of industries that design mechanical parts
- Graduate engineers who need to update or add CADD skills to their capabilities

DFTG	2340	Solid Modeling/Design Pro/Engineer
DFTG	2372	Intermediate Pro/Engineer
DFTG	2335	Advanced Technologies in Mechanical Design and Drafting

COMPUTER INFORMATION SYSTEMS

Also a Tech Prep Program

Also a Marketable Skills Achievement Award Program

Department Chair:

George JacksonPRC-H118972.377.1613

Academic Advisor:

Al GoberPRC-F134972.377.1780

Computer Information Systems is an exciting field that presents many opportunities for a student who is proficient in both applications and computer systems. The rapid spread of computers and information technology has generated a need for highly trained workers to design and develop new information systems that use these technologies to meet the needs of the business organization. The skills acquired in this program will enable the student to solve problems that are encountered when working in this ever-changing and growing field. These skills include planning and developing new computer systems while applying the resources of existing systems to additional operations.

This degree program offers specializations in computer systems and computer applications. Areas of study include business applications, business programming, management skills, computer applications, and technical skills. The degree can provide a broad business background and professional skills needed to succeed in a career in information technologies.

Two certificates are offered, which can be applied toward the AAS degree. The certificates provide the knowledge to update current job requirements. After successfully completing a certificate students can continue to toward an AAS degree in Computer Information Systems.

Two Marketable Skills Achievement Awards are also offered, providing quick acknowledgement of success with a minimum of coursework. After successfully completing an award, students can continue to work toward a certificate and then an AAS degree.

Career Options:

The Computer Information Systems program prepares students for many new job opportunities, such as the following:

- Computer Applications Specialist
- Computer Systems Analyst
- Computer Systems Specialist
- Computer Systems Design Specialist

AAS – Computer Information Systems

62 credit hours

FIRST YEAR

First Semester

BCIS	1305	Business Computer Applications ¹
ENGL	1301	Composition/Rhetoric I
HUMA	1301	Introduction to the Humanities ³
IMED	1301	Introduction to Multimedia ⁴
MATH		Any 1XXX or 2XXX College-Level Mathematics Course ⁵

NOTE: Italicized course numbers and titles denote AAS Core Curriculum.

Second Semester

CPMT 1411 Introduction to Computer Maintenance
 ITSE 1311 Beginning Web Page Programming
 ITSW 1304 Introduction to Spreadsheets – Excel
 PHED/DANC *Any activity course*⁶
 Programming Course*

Summer

SPCH 1311 *Fundamentals of Speech Communication*⁷

SECOND YEAR**First Semester**

BCIS 2390 Systems Analysis and Design
 ECON 1301 *Introduction to Economics*⁸
 ENGL 2311 Technical and Business Writing
 ITSW 1307 Introduction to Database – Access
 Elective**

Second Semester

IMED 2309 Internet Commerce
 INEW 2301 Macro for Applications – VBA
 ITNW 1358 Network+
 ITSC 2380 Cooperative Education – Computer and Information
 Sciences, General (Capstone)⁹

Elective**

- 1 May substitute COSC 1300
- 2 May substitute ENGL 1302
- 3 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
- 4 Tech Prep course which may have been completed in high school
- 5 With the exception of MATH 1370
- 6 May substitute PHED 1338
- 7 May substitute SPCH 1315 or SPCH 1321
- 8 May substitute ANTH 2351, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301
- 9 May substitute INEW 2330

*Programming Course: Take any one of the following: COSC 1337, COSC 1436, or ITSE 1431

**Electives (6 credit hours): Any COSC, IMED, ITSC, ITSE, or ITSW course not listed above, except ITSC 1380, ITSE 1380, ITSE 2380, or ITSW 1380

AAS – Computer Applications Specialization

61 credit hours

FIRST YEAR**First Semester**

BCIS 1305 Business Computer Applications¹
 ENGL 1301 *Composition/Rhetoric I*
 HUMA 1301 *Introduction to the Humanities*³
 IMED 1301 Introduction to Multimedia⁴
 MATH Any 1XXX or 2XXX College-Level Mathematics Course⁵

Second Semester

GRPH 1357 Digital Imaging II – Photoshop
 ITSE 1311 Beginning Web Page Programming
 ITSW 1304 Introduction to Spreadsheets – Excel
 ITSW 1307 Introduction to Database – Access
 PHED/DANC *Any activity course*⁶
 Programming Course*

Summer

SPCH 1311 *Fundamentals of Speech Communication*⁷

SECOND YEAR**First Semester**

ECON 1301 *Introduction to Economics*⁸
 IMED 2309 Internet Commerce
 INEW 2301 Macros for Applications – VBA
 ITNW 1358 Network+
 Elective**

Second Semester

BCIS 2390 Systems Analysis and Design
 ITSC 2380 Cooperative Education – Computer and Information
 Sciences, General (Capstone)⁹
 ITSE 2313 Web Authoring – Dreamweaver
 Elective**

- 1 May substitute COSC 1300
- 2 May substitute ENGL 1302
- 3 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
- 4 Tech Prep course which may have been completed in high school
- 5 With the exception of MATH 1370
- 6 May substitute PHED 1338
- 7 May substitute SPCH 1315 or SPCH 1321
- 8 May substitute ANTH 2351, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301
- 9 May substitute INEW 2330

NOTE: The second digit in a course number indicates the number of credit hours for that course.

*Programming Course: Take any one of the following: COSC 1337, COSC 1436, or ITSE 1431

**Electives (6 credit hours): Any COSC, IMED, ITSC, ITSE, or ITSW course not listed above, except ITSC 1380, ITSE 1380, ITSE 2380, or ITSW 1380

Certificates

Some of the courses in these certificate programs may require prerequisites. Please check the course descriptions in the back of this catalog.

Applications Programming Certificate

30 credit hours

First Semester

BCIS 1305 Business Computer Applications¹
ITNW 1358 Network+
ITSE 1311 Beginning Web Page Programming
ITSW 1307 Introduction to Database – Access
Programming Course*

Second Semester

BUSG 1310 Scripting for E-Commerce
INEW 2301 Macro for Applications – VBA
INEW 2334 Advanced Web Page Programming – ASP.NET
(Capstone)
ITSE 2302 Intermediate Web Programming
ITSE 2309 Database Programming – SQL

1 May substitute COSC 1300

* Programming Course: Take any one of the following: COSC 1337, COSC 1436, or ITSE 1431

Computer Applications Certificate

30 credit hours

First Semester

BCIS 1305 Business Computer Applications¹
IMED 1301 Introduction to Multimedia²
ITSE 1311 Beginning Web Page Programming
ITSW 1304 Introduction to Spreadsheets – Excel
Computer Graphics Course*

Second Semester

BCIS 2390 Systems Analysis and Design (Capstone)
INEW 2301 Macro for Applications – VBA
ITNW 1358 Network+
ITSE 2313 Web Authoring – Dreamweaver
ITSW 1307 Introduction to Database – Access

1 May substitute COSC 1300

2 Tech Prep course which may have been completed in high school

* Computer Graphics Course: Take one of the following: GRPH 1357 or GRPH 1359

Marketable Skills Achievement Awards

Some of the courses in these award programs may require prerequisites. Please check the course descriptions in the back of this catalog.

MSAA – Computer Applications

9 credit hours

IMED 1301 Introduction to Multimedia¹
ITSW 1304 Introduction to Spreadsheets – Excel
ITSW 1307 Introduction to Database – Access

1 Tech Prep course may have been completed in high school

MSAA – Database Applications

9 credit hours

ITSE 2309 Database Programming – SQL
ITSE 2313 Web Authoring – Dreamweaver
ITSW 1307 Introduction to Database – Access

COMPUTER NETWORKING TECHNOLOGY

Also a Tech Prep Program

Also a Marketable Skills Achievement Award Program

Department Chair:

Wayne JonesPRC-H230A972.377.1676

Academic Advisor:

Terrence BrennanPRC-F131972.377.1771

The Computer Networking Technology program prepares graduates who will be able to design and install secure network systems based on customer requirements, monitor and maintain network traffic and security, and maintain network hardware and software. Courses and hands-on labs in this program will assist the graduate in preparing to take a variety of Cisco, Microsoft, and CompTIA certification examinations. Students planning to transfer to a college or university should check with the Collin academic advisor prior to beginning this program.

Career Opportunities

Computer Networking Technology is a fast-growing and high-demand field and includes career opportunities in the following areas:

- Cybersecurity Analyst
- Security Administrator
- Equipment Repair
- Hardware/Software Installation
- Network Management
- Technical Support

AAS – Computer Networking Technology

69 credit hours

All ITCC, ITMC, ITNW, and ITSY courses are offered in eight-week express sessions.

FIRST YEAR

First Semester

ENGL 1301	Composition/Rhetoric I
ITMC 1358	Supporting Microsoft Windows Client Network Operating Systems (XP Pro)
ITNW 1358	Network+
ITNW 2401	Administering Servers
MATH 1314	College Algebra
PHED/DANC	Any activity course ²

Second Semester

CPMT 1411	Introduction to Computer Maintenance
ITCC 1302	CCNA 1: Networking Basics ³
ITNW 2373	Linux Operating System
ITNW 2404	Implementing, Managing, and Maintaining a Microsoft Windows 2003 Environment

Summer

ECON 1301	Introduction to Economics ⁴
ITCC 1306	CCNA 2: Router and Routing Basics ³

SECOND YEAR

First Semester

ITMC 2477	Planning and Maintaining a MS Server 2003 Network Infrastructure
ITMC 2478	Planning, Implementing, and Maintaining a MS Server 2003 Active Directory
ITMC 2479	Implementing and Administering Security in a MS Server 2003 Network
SPCH 1311	Fundamentals of Speech Communication ⁵

Second Semester

HUMA 1301	Introduction to the Humanities ⁶
ITSY 2300	Operating System Security (Capstone)
Advanced Microsoft Design Elective*	
Elective**	
Elective**	

- 1 May substitute ENGL 1302
- 2 May substitute PHED 1338
- 3 Tech Prep course which may have been completed in high school
- 4 May substitute ANTH 2351, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301
- 5 May substitute SPCH 1315 or SPCH 1321
- 6 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342,

ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322

* Advanced Microsoft Design Elective (4 credit hours): ITMC 2431 or ITMC 2433

**Electives (7 credit hours): Any ITCC, ITMC, ITNW, or ITSY course not listed above with approval of Department Chair

Cisco Systems Networking Specialization

66 credit hours

All ITCC, ITMC, ITNW, and ITSY courses are offered in eight-week express sessions.

FIRST YEAR

First Semester

ENGL 1301	Composition/Rhetoric I
ITCC 1302	CCNA 1: Networking Basics ²
ITCC 1306	CCNA 2: Router and Routing Basics ²
ITNW 1358	Network+
MATH 1314	College Algebra

Second Semester

CPMT 1411	Introduction to Computer Maintenance ³
ITCC 1342	CCNA 3: Switching Basic and Intermediate Routing
ITCC 1346	CCNA 4: WAN Technologies ²
ITNW 2401	Administering Servers

Summer

ECON 1301	Introduction to Economics ³
HUMA 1301	Introduction to the Humanities ⁴

SECOND YEAR

First Semester

ITCC 2432	CCNP 5: Advanced Routing ²
ITCC 2436	CCNP 6: Remote Access ²
ITNW 2404	Implementing, Managing and Maintaining a Microsoft Windows 2003 Environment
ITSY 2300	Operating System Security
SPCH 1311	Fundamentals of Speech Communication ⁵

Second Semester

ITCC 2440	CCNP 7: Multilayer Switching ²
ITCC 2444	CCNP 8: Network Troubleshooting ² (Capstone)
ITNW 1492	Special Topics in Computer Systems Networking and Telecommunications

PHED/DANC Any activity course⁶

- 1 May substitute ENGL 1302
- 2 Tech Prep course which may have been completed in high school
- 3 May substitute ANTH 2351, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301
- 4 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342,

NOTE: The second digit in a course number indicates the number of credit hours for that course.

- ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
- 5 May substitute SPCH 1315 or SPCH 1321
- 6 May substitute PHED 1338

Information Systems Cybersecurity Specialization

69 credit hours

All ITCC, ITMC, ITNW, and ITSY courses are offered in eight-week express sessions.

FIRST YEAR

First Semester

- ENGL 1301 *Composition/Rhetoric I*¹
- ITMC 1358 Supporting Microsoft Windows Client Network Operating Systems (XP Pro)
- ITNW 1358 Network+
- ITNW 2401 Administering Servers
- MATH 1314 *College Algebra*
- PHED/DANC *Any activity course*²

Second Semester

- ECON 2301 *Macroeconomics*³
- ITCC 1302 CCNA 1: Networking Basics⁴
- ITMC 2479 Implementing and Administering Security in a MS Server 2003 Network
- ITNW 2373 Linux Operating System
- ITNW 2404 Implementing, Managing, and Maintaining a Microsoft Windows 2003 Environment

Summer

- ITCC 1306 CCNA 2: Router and Routing Basics⁴

SECOND YEAR

First Semester

- ITCC 1342 CCNA 3: Switching Basic and Intermediate Routing⁴
- ITCC 1346 CCNA 4: WAN Technologies⁴
- ITSY 2300 Operating System Security
- ITSY 2401 Firewalls and Network Security
- SPCH 1311 *Fundamentals of Speech Communication*⁵

Second Semester

- HUMA 1301 *Introduction to the Humanities*⁶
- ITSY 2342 Incident Response and Handling
- ITSY 2343 Computer System Forensics
- ITSY 2359 Security Assessment and Auditing (Capstone)
- ITSY 2441 Security Management Practices

- 1 May substitute ENGL 1302
- 2 May substitute PHED 1338
- 3 May substitute ANTH 2351, ECON 1301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301
- 4 Tech Prep course which may have been completed in high school

- 5 May substitute SPCH 1315 or SPCH 1321
- 6 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322

Certificates

Advanced Cisco Systems Networking (CCNP) Certificate

28 credit hours

All ITCC, ITMC, ITNW, and ITSY courses are offered in eight-week express sessions.

FIRST YEAR

First Semester

- ITCC 1302 CCNA 1: Networking Basics¹
- ITCC 1306 CCNA 2: Router and Routing Basics¹

Second Semester

- ITCC 1342 CCNA 3: Switching Basic and Intermediate Routing¹
- ITCC 1346 CCNA 4: WAN Technologies¹

SECOND YEAR

First Semester

- ITCC 2432 CCNP 5: Advanced Routing¹
- ITCC 2436 CCNP 6: Remote Access¹

Second Semester

- ITCC 2440 CCNP 7: Multilayer Switching¹
- ITCC 2444 CCNP 8: Network Troubleshooting¹ (Capstone)

- 1 Tech Prep course which may have been completed in high school

Computer Networking Technology Software (MCSA) Certificate

18 credit hours

All ITCC, ITMC, ITNW, and ITSY courses are offered in eight-week express sessions

First Semester

- ITMC 1358 Supporting Microsoft Windows Client Network Operating Systems (XP Pro)
- ITNW 1358 Network+

Second Semester

- ITNW 2401 Administering Servers
- ITNW 2404 Implementing, Managing, and Maintaining a Microsoft Windows 2003 Environment

Elective*

- * Elective (4 credit hours) ITMC 2403, ITMC 2404, or ITMC 2479

Computer Networking Technology Advanced Software (MCSE) Specialization

29 credit hours

All ITCC, ITMC, ITNW, and ITSY courses are offered in eight-week express sessions.

First Semester

ITMC	1358	Supporting Microsoft Windows Client Network Operating Systems (XP Pro)
ITNW	1358	Network+
ITNW	2401	Administering Servers
ITNW	2404	Implementing, Managing, and Maintaining a Microsoft Windows 2003 Environment

Second Semester

ITMC	2477	Planning and Maintaining a MS Server 2003 Network Infrastructure
ITMC	2478	Planning, Implementing, and Maintaining a MS Server 2003 Active Directory (Capstone)

Advanced Microsoft Design Elective*
Elective**

* Advanced Microsoft Design Elective (4 credit hours): ITMC 2431 or ITMC 2433

** Electives (3 credit hours): Any ITCC, ITMC, ITNW, or ITSY course not listed above with approval of Department Chair

Information Systems Cybersecurity Specialization

41 credit hours

All ITCC, ITMC, ITNW, and ITSY courses are offered in eight-week express sessions.

First Semester

ITCC	1302	CCNA 1: Networking Basics ¹
ITCC	1306	CCNA 2: Router and Routing Basics ¹
ITNW	1358	Network+
ITNW	2401	Administering Servers

Second Semester

ITMC	2479	Implementing and Administering Security in a MS Server 2003 Network
ITNW	2404	Implementing, Managing, and Maintaining a Microsoft Windows 2003 Environment
ITSY	2300	Operating System Security
ITSY	2342	Incident Response and Handling
ITSY	2401	Firewalls and Network Security

Summer

ITSY	2343	Computer System Forensics
ITSY	2359	Security Assessment and Auditing (Capstone)
ITSY	2441	Security Management Practices

1 Tech Prep course which may have been completed in high school

Marketable Skills Achievement Awards

MCAA – Cisco Systems Networking (CCNA)

12 credit hours

All ITCC, ITMC, ITNW, and ITSY courses are offered in eight-week express sessions

ITCC	1302	CCNA 1: Networking Basics ¹
ITCC	1306	CCNA 2: Router and Routing Basics ¹
ITCC	1342	CCNA 3: Switching Basic and Intermediate Routing ¹
ITCC	1346	CCNA 4: WAN Technologies ¹

1 Tech Prep course which may have been completed in high school

COMPUTER PROGRAMMING

Also a Tech Prep Program

Department Chair:

Bill SlaterSCC-J126972.881.5976

Academic Advisor:

Al GoberPRC-F134972.377.1780

Many career opportunities are available in computer-related industries. Computer scientists and/or computer software engineers occupy a large percentage of all technical and managerial positions within the industry. The Computer Programming program prepares students with the marketable skills and technical competencies to enter this career field.

This degree program offers specializations in software development and database programming. Areas of study include C++, Java, Visual Basic, and database languages.

Several certificates are offered which can be applied toward the AAS degree. The certificates provide the knowledge to update current job requirements. After successfully completing one or more certificates, students can continue at Collin and receive an AAS degree in Computer Programming.

Students planning to transfer to another college or university should check with the Collin academic advisor prior to beginning this program to verify course transferability.

Career Opportunities

Computer Programming prepares students for many new job opportunities, such as the following:

- Applications Analyst
- Applications Programmer
- Business Analyst
- Business Programmer
- Customer Service Representative
- Database Administrator
- Database Programmer
- Production Analyst
- Software Developer

AAS – Software Development

67 credit hours

FIRST YEAR

First Semester

COSC 1300	Computer Essentials
COSC 1436	Programming Fundamentals I – C++
ENGL 1301	<i>Composition/Rhetoric I¹</i>
HUMA 1301	<i>Introduction to the Humanities²</i>
MATH 1314	<i>College Algebra</i>

Second Semester

COSC 1437	Programming Fundamentals II – C++
COSC 2325	Computer Organization and Machine Language
ITSW 1307	Introduction to Database – Access ³
MATH 2412	Pre-Calculus for Mathematics and Science
SPCH 1311	<i>Fundamentals of Speech Communication⁴</i>

Summer

COSC 2336	Programming Fundamentals III – C++
ECON 1301	<i>Introduction to Economics⁵</i>

SECOND YEAR

First Semester

ENGL 2311	Technical and Business Writing
ITSE 2301	Windows Programming Using C++
ITSE 2374	Computer Programming – C#
PHED/DANC	<i>Any activity course⁶</i>
Elective*	
Elective*	

Second Semester

INEW 2340	Object-Oriented Design
ITSE 2317	Java Programming
ITSE 2380	Cooperative Education – Computer Programming/ Programming, General (Capstone) ⁷
Elective*	

- 1 May substitute ENGL 1302
- 2 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
- 3 Tech Prep course which may have been taken in high school
- 4 May substitute SPCH 1315 or SPCH 1321
- 5 May substitute: ANTH 2351, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301
- 6 May substitute PHED 1338
- 7 May substitute INEW 2330
- * Electives (9 credit hours): BCIS 1332, BCIS 2390, INEW 2301, ITNW 2373, ITSE 1344, ITSE 2309³, ITSE 2339, ITSE 2347, ITSE 2349, or ITSE 2373

Java Specialization

67 credit hours

FIRST YEAR

First Semester

COSC 1300	Computer Essentials
COSC 1436	Programming Fundamentals I – C++
ENGL 1301	<i>Composition/Rhetoric I¹</i>
HUMA 1301	<i>Introduction to the Humanities²</i>
MATH 1314	<i>College Algebra</i>

Second Semester

COSC 1337	Programming Fundamentals II – Java
COSC 2325	Computer Organization and Machine Language
ITSW 1307	Introduction to Database – Access ³
MATH 2412	Pre-Calculus for Mathematics and Science
SPCH 1311	<i>Fundamentals of Speech Communication⁴</i>

Summer

ECON 1301	<i>Introduction to Economics⁵</i>
ITSE 2309	Database Programming – SQL ³

SECOND YEAR

First Semester

COSC 2436	Programming Fundamentals III – Java
ENGL 2311	Technical and Business Writing
ITSE 2374	Computer Programming – C#
PHED/DANC	<i>Any activity course⁶</i>
Elective*	
Elective*	

Second Semester

INEW 2338	Advanced Java Programming
INEW 2340	Object-Oriented Design
ITSE 2380	Cooperative Education – Computer Programming/ Programmer, General (Capstone) ⁷
Elective*	

- 1 May substitute ENGL 1302
- 2 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
- 3 Tech Prep course which may have been taken in high school
- 4 May substitute SPCH 1315 or SPCH 1321
- 5 May substitute: ANTH 2351, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301
- 6 May substitute PHED 1338
- 7 May substitute INEW 2330
- * Electives (9 credit hours): BCIS 1332, BCIS 2390, INEW 2301, ITNW 2373, ITSE 1344, ITSE 2339, ITSE 2347, ITSE 2349, ITSE 2373, or ITSE 2431

NOTE: *Italicized course numbers and titles denote AAS Core Curriculum.*

Certificates

Some of the courses in these certificate programs may require prerequisites. Please check the course descriptions in the back of this catalog.

Software Development Certificate

29 credit hours

Summer

COSC 1436 Programming Fundamentals I – C++

First Semester

COSC 1437 Programming Fundamentals II – C++

COSC 2325 Computer Organization and Machine Language Elective *

Second Semester

COSC 2336 Programming Fundamentals III – C++

INEW 2340 Object-Oriented Design

ITSE 2301 Windows Programming Using C++ Elective *

Summer

ITSE 2380 Cooperative Education – Computer Programming/Programmer, General (Capstone)¹

1 May substitute INEW 2330

2 Tech Prep course which may have been taken in high school

* Electives (6 credit hours): BCIS 2390, ITSE 1344, ITSE 2309², ITSE 2317, ITSE 2339, ITSE 2349, or ITSE 2373

Java Specialization

32 credit hours

Summer

COSC 1436 Programming Fundamentals I – C++

ITSW 1307 Introduction to Database – Access¹

First Semester

COSC 1337 Programming Fundamentals II – Java

ITSE 2309 Database Programming – SQL¹ Elective*

Second Semester

COSC 2436 Programming Fundamentals III – Java

INEW 2340 Object-Oriented Design

Elective*

Summer

INEW 2338 Advanced Java Programming

ITSE 2380 Cooperative Education – Computer Programming/Programmer, General (Capstone)²

1 Tech Prep course which may have been taken in high school

2 May substitute INEW 2330

* Electives (6 credit hours): BCIS 2390, COSC 2325, INEW 2301, ITNW 2373, ITSE 1344, ITSE 2347, ITSE 2349, or ITSE 2431

Visual Basic Specialization

31 credit hours

Summer

ITSE 1431 Introduction to Visual Basic Programming [.NET] Level I Elective*

First Semester

ITSE 1311 Beginning Web Page Programming

ITSE 1344 Mastering Microsoft Visual Basic Development [.NET]

ITSE 2309 Database Programming – SQL¹

Second Semester

ITSE 2302 Intermediate Web Programming

ITSE 2347 Advanced Database Programming: SQL

ITSE 2349 Advanced Visual Basic Programming [.NET] Level II Elective**

Summer

ITSE 2380 Cooperative Education – Computer Programming/Programmer, General (Capstone)²

1 Tech Prep which may have been completed in high school

2 May Substitute INEW 2330

* Level I Elective (3 credit hours – choose one course): COSC 1436, INEW 2301, ITSW 13071

** Level II Elective (3 credit hours – choose one course): BCIS 2390, COSC 1437, ITSE 2354, ITSE 2374

Database Programming Certificate

25 credit hours

Summer

ITSE 1431 Introduction to Visual Basic Programming [.NET]

ITSW 1307 Introduction to Database – Access¹

First Semester

ITNW 2373 Linux Operating System

ITSE 1344 Mastering Microsoft Visual Basic Development [.NET]

ITSE 2309 Database Programming – SQL¹

Second Semester

ITSE 2347 Advanced Database Programming – SQL

ITSE 2349 Advanced Visual Basic Programming [.NET]

Summer

ITSE 2380 Cooperative Education, Computer Programming/Programmer, General (Capstone)²

1 Tech Prep which may have been completed in high school

2 May substitute INEW 2330

C++ Specialization

25 credit hours

Summer

COSC 1437 Programming Fundamentals II – C++

ITSW 1307 Introduction to Database – Access¹

First Semester

ITNW 2373 Linux Operating System

ITSE 2301 Windows Programming Using C++

ITSE 2309 Database Programming – SQL¹

Second Semester

ITSE 2347 Advanced Database Programming – SQL

ITSE 2373 Database Programming with Visual C++ and SQL

Summer

ITSE 2380 Cooperative Education – Computer Programming/Programmer, General (Capstone)²

1 Tech Prep which may have been completed in high school

2 May substitute INEW 2330

CONVERGENCE TECHNOLOGY

Formerly Telecommunications Technology

Also a Tech Prep Program

Department Chair:

Wayne JonesPRC-H230A972.377.1676

Academic Advisor:

Terrence BrennanPRC-F131972.377.1771

Collin's new Convergence Technology program introduces the "triple play" combining Voice, Video, and Integrated Data over an IP network. The program focuses on key content in all three areas and gives students experience in solving real-world problems through case study courses. The two novel Case Study courses address contemporary Small Office Home Office (SOHO) and the Enterprise network business situations, allowing students to utilize the college state-of-the-art Convergence Lab to build a portfolio of completed projects prior to entering the workforce. The student's ability to design and maintain those networks will give them excellent marketability in this future high-demand, fast-paced industry of Information and Communications Technology (ICT) as described by the Texas Workforce Commission and Career Development Resources.

Convergence is:

- The blending or integration of voice, video, and data into a single but flexible global communications network.
- The merging together of products and capabilities of multiple vendors to create an integrated solution for the customer.

With curriculum designed by industry area experts and taught by experienced professionals, the Convergence Technology program at Collin will give students extensive hands-on training and prepares students for the workforce and for professional certification exams including CCNA, MCSA, A+, Network +, Security +, Linux +, HTI+

and others. Students planning to transfer to a college or university should check with a Collin academic advisor prior to beginning this program.

Career Opportunities

Students successfully completing the Convergence Technology program will be prepared for employment in the following career areas:

- Convergence Specialist in an enterprise, responsible for supporting and integrating voice, data, and video for the business
- Home Technology Integrator responsible for integrating high-tech home communication systems
- Information and Communication Technology Specialist
- Wireless Communications Specialist

AAS – Convergence Technology

72 credit hours

Many CPMT, EECT (except EECT 2371 and EECT 2372) ITCC, ITMC, ITNW, and ITSY courses are offered in eight-week express sessions

FIRST YEAR

First Semester

CPMT 1411 Introduction to Computer Maintenance¹

EECT 1407 Convergent Technologies – Convergence+

ITCC 1302 CCNA 1: Networking Basics¹

ITCC 1306 CCNA 2: Router and Routing Basics¹

MATH 1314 College Algebra

Second Semester

ENGL 1301 Composition/Rhetoric I

ITCC 1342 CCNA 3: Switching Basic and Intermediate Routing¹

ITCC 1346 CCNA 4: WAN Technologies¹

ITMC 1358 Supporting Microsoft Windows Client Network Operating Systems (XP Pro)

ITNW 2401 Administering Servers

PHED/DANC Any activity course³

Summer

ECON 2301 Principles of Macroeconomics⁴

SPCH 1321 Business and Professional Speaking⁵

SECOND YEAR

First Semester

CPMT 2302 Home Technology Integration

EECT 1371 Voice-over-Internet Protocol

EECT 2371 Case Study I: SOHO (Small Office Home Office)

EECT 2437 Wireless Telephony Systems

ITNW 2404 Implementing, Managing, and Maintaining a Microsoft Windows 2003 Environment

Second Semester

EECT 2372 Case Study II: Enterprise Network (Capstone)

HUMA 1301 Introduction to the Humanities⁶

NOTE: *Italicized course numbers and titles denote AAS Core Curriculum.*

ITNW 2373 Linux Operating System
 ITSY 2300 Operating System Security
 Elective*

- 1 Tech Prep course which may have been completed in high school
 - 2 May substitute ENGL 1302
 - 3 May substitute PHED 1338
 - 4 May substitute ANTH 2351, ECON 1301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301
 - 5 May substitute SPCH 1311 or SPCH 1315
 - 6 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
- * Elective (3 credit hours): CPMT 2371, EECT 1380, or EECT 2374

Certificate

Convergence Technology Certificate

20 credit hours

First Semester

EECT 1407 Convergence Technologies – Convergence+
 ITCC 1302 CCNA 1: Networking Basics¹
 ITCC 1306 CCNA 2: Router and Routing Basics¹

Second Semester

EECT 1371 Voice-over-Internet Protocol
 EECT 2437 Wireless Telephony Systems
 Elective* (Capstone)

- 1 Tech Prep course which may have been completed in high school

* Elective (3 credit hours): EECT 2371 or EECT 2372

DENTAL HYGIENE

Program Director:

Joanne FletcherCPC-A121972.548.6535

Academic Advisor:

Lynne MeyerCPC-A108B972.548.6778

The Dental Hygiene program is designed to prepare individuals to become licensed health care professionals who specialize in non-surgical periodontal therapy and oral health education. A broad-based education in biological sciences, humanities, dental sciences, and clinical technologies prepares the graduate for work, under the supervision of a dentist, in private practice and community settings as a member of the dental health team.

Dental Hygiene is a two-year program that begins during the fall semester each year. Classes are scheduled at the Central Park Campus in McKinney. Enrollment is limited and admission to the program is competitive. Courses listed in the curriculum must be taken in

sequence to assure progression in content from simple to complex. Clinical students are required to submit a physical, dental, and visual acuity report on an annual basis.

Dental hygiene students must meet eligibility requirements for licensure as established by the State Board of Dental Examiners (www.tsbde.state.tx.us) in the State of Texas. If a student has reason to believe he/she is ineligible for licensure, he/she should contact the Board regarding their specific concerns prior to entrance into the program.

A drug scan and background check will be required upon acceptance into the program. Requirements for dental hygiene licensure as set by The Texas State Board of Dental Examiners (SBDE) defines that individuals be “of good moral character.” All individuals accepted into the program must meet licensure eligibility requirements. Information received from the background check or drug scan may result in dismissal from the program.

The applicant must be in good health, emotionally stable, and furnish physical, dental, and eye examination records. Forms will be provided by the dental hygiene department. In addition, the State of Texas requires the applicant to provide proof of all immunizations required by the State.* Other requirements include Hepatitis C screening and annual TB testing. A letter of declamation must be signed if the candidate is unable to receive the Hepatitis B series.

The student is awarded an AAS degree upon successful completion of the program. The graduate is eligible for national and regional examinations.

Students planning to transfer to a college or university should check with a Collin academic advisor prior to beginning this program.

Accreditation

Collin’s Dental Hygiene program is accredited by the American Dental Association’s Council on Dental Accreditation and has been granted the accreditation status of approval without reporting requirements. The Council is a specialized accrediting body recognized by the Department of Education.

Special Admission Requirements

- Provide proof of high school graduation or GED
- Earn a GPA of 2.5 or greater on all courses applicable to the Dental Hygiene program
- Submit official copies of all college transcripts
- Complete pre-entrance course requirements with a minimum GPA of 2.5
- Complete the PSB exam with a satisfactory result
- Completion of immunizations required by the Texas Department of Health (TDH)*
- Submit a handwritten, one- to two-page essay that discusses why dental hygiene has been selected as a profession
- Submit two reference forms: one from an employer and one from an educator

NOTE: The second digit in a course number indicates the number of credit hours for that course.

* It is important to note that one of the required vaccinations, Hepatitis B, consists of a three dose series, which can take up to 7 months to complete. Individuals unable to receive the HBV must inform the program director. In such cases the applicant must sign a declination form. All immunizations must be complete before the first clinical visit.

Admission to this program is selective. Admission to the college does not guarantee admission to the Dental Hygiene program. Registration is by permission only. Information and applications may be obtained from the program director or the Social Sciences, Health, and Public Services Office.

AAS – Dental Hygienist

72 credit hours

Pre-Entrance Requirements

BIOL	2401	Anatomy and Physiology I
BIOL	2402	Anatomy and Physiology II
CHEM	1405	Introduction to Chemistry I ¹

FIRST YEAR

First Semester

BIOL	2421	Microbiology
DHYG	1301	Orofacial Anatomy, Histology and Embryology
DHYG	1331	Preclinical Dental Hygiene
<i>ENGL</i>	<i>1301</i>	<i>Composition/Rhetoric I</i>

Second Semester

DHYG	1207	General and Dental Nutrition
DHYG	1227	Preventive Dental Hygiene Care
DHYG	1235	Pharmacology for the Dental Hygienist
DHYG	1261	Clinical I – Dental Hygiene/Hygienist
DHYG	1304	Dental Radiology
DHYG	1319	Dental Materials
<i>PSYC</i>	<i>2301</i>	<i>General Psychology</i>

SECOND YEAR

First Semester

DHYG	1123	Dental Hygiene Practice
DHYG	1215	Community Dentistry
DHYG	1311	Periodontology
DHYG	1339	General and Oral Pathology
DHYG	2201	Contemporary Dental Hygiene Care I
DHYG	2361	Clinical II – Dental Hygiene/Hygienist

Second Semester

DHYG	1275	Community Dental Health Applications
DHYG	1375	Strategies of Oral Medicine (Capstone)
DHYG	2231	Contemporary Dental Hygiene Care II
DHYG	2363	Clinical III – Dental Hygiene/Hygienist
<i>HUMA</i>	<i>1301</i>	<i>Introduction to the Humanities³</i>
<i>SOCI</i>	<i>1301</i>	<i>Introduction to Sociology</i>

- 1 May substitute CHEM 1411
- 2 May substitute ENGL 1302
- 3 May substitute: ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322

Note: The communication, and mathematics competencies are being met throughout the degree.

E-BUSINESS MEDIA

Also a Tech Prep Program

Also a Marketable Skills Achievement Award Program

Department Chair:

George JacksonPRC-H118972.377.1613

Academic Advisor:

Al GoberPRC-F134972.377.1780

With the global impact of the web, interactive multimedia technology professionals are in demand. The E-Business Media program prepares students for this role, teaching them to create dynamic web sites for distribution of information, web-based tutorials, business presence, and e-commerce.

This degree program offers specialization in e-business media and web development. Areas of study include multimedia, computer graphics, web authoring, web design, project analysis, Internet commerce, business applications, computer applications, and technical skills. The degree can provide a broad business background and professional skills needed to succeed in a career in e-business.

Three certificates are also offered, which can be applied toward the AAS degree. The certificates provide the knowledge to update current job requirements. After successfully completing a certificate, students can continue to work toward an AAS degree in E-Business Media.

Three Marketable Skills Achievement Awards are also offered providing quick acknowledgement of success with a minimum of coursework. After successfully completing an award, students can continue to work toward a certificate and then an AAS degree.

Career Opportunities

The E-Business Media program prepares students for many new job opportunities, such as the following:

- Web Developer
- Web Designer
- Web Programmer
- Webmaster
- E-Commerce Manager
- Interactive Media Specialist
- Multimedia Designer
- Multimedia Developer

NOTE: Italicized course numbers and titles denote AAS Core Curriculum.

AAS – E-Business Media

61 credit hours

FIRST YEAR

First Semester

BCIS	1305	Business Computer Applications ¹
ENGL	1301	Composition/Rhetoric I
GRPH	1359	Object-Oriented Computer Graphics
HUMA	1301	Introduction to the Humanities ³
IMED	1301	Introduction to Multimedia ⁴

Second Semester

GRPH	1357	Digital Imaging II – Photoshop
IMED	1341	2-D Interface Design – Fireworks
IMED	1345	Interactive Multimedia I – Flash
ITSE	1311	Beginning Web Page Programming
MATH		Any 1XXX or 2XXX College-Level Mathematics Course ⁵
PHED/DANC		Any activity course ⁶

Summer

SPCH	1311	Fundamentals of Speech Communication ⁷
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SECOND YEAR

First Semester

BCIS	2390	Systems Analysis and Design
ECON	1301	Introduction to Economics ⁸
ITSE	1356	Introduction to XML
ITSE	2313	Web Authoring – Dreamweaver
		Elective*

Second Semester

IMED	2309	Internet Commerce
ITSC	2380	Cooperative Education – Computer and Information Sciences, General (Capstone) ⁹
ITSE	2302	Intermediate Web Programming
		Elective*

1 May substitute COSC 1300

2 May substitute ENGL 1302

3 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322

4 Tech Prep course which may have been completed in high school

5 With the exception of MATH 1370

6 May substitute PHED 1338

7 May substitute SPCH 1315 or SPCH 1321

8 May substitute ANTH 2351, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301

9 May substitute INEW 2330

* Electives (6 credit hours): Any COSC, IMED, ITSC, ITSE, or ITSW course not listed above, except ITSC 1380, ITSE 1380, ITSE 2380, ITSW 1380, or ITSW 2380

AAS – Web Developer Specialization

61 credit hours

FIRST YEAR

First Semester

BCIS	1305	Business Computer Applications ¹
ENGL	1301	Composition/Rhetoric I
HUMA	1301	Introduction to the Humanities ³
IMED	1301	Introduction to Multimedia ⁴
		Computer Graphics Course*

Second Semester

IMED	1345	Interactive Multimedia I – Flash
IMED	2309	Internet Commerce
ITSE	1311	Beginning Web Page Programming
ITSW	1307	Introduction to Database – Access
MATH		Any 1XXX or 2XXX College-Level Mathematics Course ⁵
PHED/DANC		Any activity course ⁶

Summer

SPCH	1311	Fundamentals of Speech Communication ⁷
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SECOND YEAR

First Semester

ECON	1301	Introduction to Economics ⁸
IMED	2349	Internet Communications – Web Servers
ITSE	1356	Introduction to XML
ITSE	2302	Intermediate Web Programming
ITSE	2313	Web Authoring – Dreamweaver

Second Semester

BCIS	2390	Systems Analysis and Design
BUSG	1310	Scripting for E-Commerce
INEW	2334	Advanced Web Programming – ASP.NET
ITSC	2380	Cooperative Education – Computer and Information Sciences, General (Capstone) ⁹

1 May substitute COSC 1300

2 May substitute ENGL 1302

3 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322

4 Tech Prep course which may have been completed in high school

5 With the exception of MATH 1370

6 May substitute PHED 1338

7 May substitute SPCH 1315 or SPCH 1321

NOTE: The second digit in a course number indicates the number of credit hours for that course.

- 8 May substitute ANTH 2351, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301
- 9 May substitute INEW 2330
- * Computer Graphics Course: Take any one of the following: GRPH 1357, GRPH 1359, or IMED 1341

Certificates

Some of the course in these certificate programs may require prerequisites. Please check the course descriptions in the back of this catalog.

E-Business Media Certificate

30 credit hours

First Semester

BCIS	1305	Business Computer Applications ¹
GRPH	1357	Digital Imaging II – Photoshop
IMED	1301	Introduction to Multimedia ²
IMED	1345	Interactive Multimedia – Flash
ITSE	1311	Beginning Web Page Programming

Second Semester

GRPH	1359	Object-Oriented Computer Graphics
IMED	1341	2-D Interface Design – Fireworks
IMED	2345	Interactive Multimedia II – Flash II
ITSE	2302	Intermediate Web Programming (Capstone)
ITSE	2313	Web Authoring – Dreamweaver

- 1 May substitute COSC 1300
- 2 Tech Prep course which may have been completed in high school

Web Developer Specialization

30 credit hours

First Semester

BCIS	1305	Business Computer Applications ¹
IMED	1301	Introduction to Multimedia ²
IMED	2349	Internet Communications – Web Servers
ITSE	1311	Beginning Web Page Programming
ITSE	2313	Web Authoring – Dreamweaver

Second Semester

BUSG	1310	Scripting for E-Commerce
IMED	2309	Internet Commerce
INEW	2334	Advanced Web Page Programming – ASP.NET (Capstone)
ITSE	1356	Introduction to XML
ITSE	2302	Intermediate Web Programming

- 1 May substitute COSC 1300
- 2 Tech Prep course which may have been completed in high school

E-Commerce Certificate

30 credit hours

First Semester

BCIS	1305	Business Computer Applications ¹
IMED	1301	Introduction to Multimedia ²
IMED	1341	2-D Interface Design – Fireworks ³
IMED	2309	Internet Commerce
ITSE	1311	Beginning Web Page Programming

Second Semester

BUSG	1310	Scripting for E-Commerce
IMED	2349	Internet Communications – Web Servers (Capstone)
ITSE	1356	Introduction to XML
ITSE	2313	Web Authoring – Dreamweaver
ITSW	1307	Introduction to Database – Access

- 1 May substitute COSC 1300
- 2 Tech Prep course which may have been completed in high school
- 3 May substitute GRPH 1357, GRPH 1359, or IMED 1345

Marketable Skills Achievement Awards

Some of the courses in these award programs may require prerequisites. Please check the course descriptions in the back of this catalog.

MSAA – Interactive Web Programming

9 credit hours

IMED	1301	Introduction to Multimedia ¹
ITSE	1311	Beginning Web Page Programming
ITSE	2302	Intermediate Web Programming

- 1 Tech Prep course which may have been completed in high school

MSAA – Multimedia Graphics Applications

9 credit hours

GRPH	1357	Digital Imaging II – Photoshop
GRPH	1359	Object-Oriented Computer Graphics
IMED	1341	2-D Interface Design – Fireworks ¹

- 1 May substitute IMED 1345

MSAA – MX Studio

9 credit hours

IMED	1341	2-D Interface Design – Fireworks
IMED	1345	Interactive Multimedia I – Flash
ITSE	2313	Web Authoring – Dreamweaver

ELECTRONIC DESIGN

Also a Tech Prep Program

Department Chair:

Warner RichesonPRC-H114972.377.1689

Academic Advisor:

Terrence BrennanPRC-F131972.377.1771

The Electronic Design AAS and the Electronic Design Automation Certificate programs introduce students to the techniques and skills required to design printed circuit boards for industry.

Printed circuit boards may be found in almost all electronic products such as cell phones, televisions, electronic watches, aircraft, and automobiles. These high-tech assemblies integrate electronic devices and their interconnections into a functional electronic device. Students in the program, experience intensive hands-on training and are taught the rules and guidelines necessary to produce designs that may be manufactured economically and functionally correct.

Career Opportunities:

Enjoy a profitable career in a high-tech industry. The job market for these skills include, but are not limited to:

- Aircraft Industry
- Defense
- Space
- Electronic Firms
- Custom Printed Circuit Board Companies
- Research Organizations
- Semiconductor Manufacturing Firms
- Telecommunications Industry

AAS – Electronic Design

69 credit hours

FIRST YEAR

First Semester

CETT	1325	Digital Fundamentals
CETT	1403	DC Circuits ¹
DFTG	1309	Basic Computer-Aided Drafting ¹
DFTG	1358	Electrical/Electronics Drafting
HUMA	1301	Introduction to the Humanities ²
MATH	1314	College Algebra

Second Semester

CETT	1405	AC Circuits ¹
CETT	1421	Electronic Fabrication
CETT	1429	Solid State Devices ¹
DFTG	2305	Printed Circuit Board Design
MATH	1316	Trigonometry
		Elective*

SECOND YEAR

First Semester

CETT	1457	Linear Integrated Circuits
DFTG	2356	Advanced Printed Circuit Board Design
PHED/DANC		Any activity course ³
SPCH	1311	Fundamentals of Speech Communication ⁴
		Elective*

Second Semester

DFTG	2381	Cooperative Education – Drafting and Design Technology/Technician, General (Capstone)
ECON	1301	Introduction to Economics ⁶
ENGL	1301	Composition/Rhetoric ⁵
		Elective*
		Elective*

- 1 Tech Prep course which may have been completed in high school
 - 2 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
 - 3 May substitute PHED 1338
 - 4 May substitute SPCH 1315 or SPCH 1321
 - 5 May substitute ENGL 1302
 - 6 May substitute ANTH 2351, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301
- * Electives (12 credit hours): BMGT 2331, BUSI 1301, BUSI 2301, DFTG 1305, DFTG 1394, DFTG 2319, DFTG 2332, DFTG 2336, or ENGL 2311

Certificate

Electronic Design Automation Certificate

38 credit hours

FIRST YEAR

First Semester

CETT	1325	Digital Fundamentals
CETT	1403	DC Circuits
DFTG	1309	Basic Computer-Aided Drafting ¹
DFTG	1358	Electrical/Electronics Drafting

Second Semester

CETT	1405	AC Circuits ¹
CETT	1421	Electronic Fabrication
CETT	1429	Solid State Devices
DFTG	2305	Printed Circuit Board Design

NOTE: The second digit in a course number indicates the number of credit hours for that course.

SECOND YEAR

First Semester

CETT	1457	Linear Integrated Circuits
DFTG	1394	Special Topics in Electrical/Electronics Drafting
DFTG	2356	Advanced Printed Circuit Board Design (Capstone)

1 Tech Prep course which may have been completed in high school

ELECTRONIC ENGINEERING TECHNOLOGY

Also a Tech Prep Program

Department Chair:

Wayne JonesPRC-H230A972.377.1676

Academic Advisor:

Terrence BrennanPRC-F131972.377.1771

Students in the Electronic Engineering Technology degree program will receive training in several diversified areas of electronics. This program emphasizes the application of mathematical theorems and applied physics toward the design and analysis of electronic circuits. Students will be exposed to a combination of classroom theory and hands-on laboratory design and analysis experiments.

Program curriculum and laboratory equipment have been formally evaluated and endorsed by an advisory committee consisting of members of the electronics industry.

Through articulation agreements, students can transfer their completed program toward a bachelor's degree into several colleges and universities. Students planning to transfer to a college or university should check with the Collin academic advisor prior to beginning this program to verify course transferability.

Career Opportunities

Students completing the Electronic Engineering Technology degree program will receive quality training for the following fields:

- Advanced Manufacturing Equipment Applications
- Avionics and Space Communications
- Biomedical Applications and Design
- Computer Systems Applications
- Laser and Fiber Optics Applications
- Printed Circuit Board Design and Manufacturing
- Semiconductor Wafer Fabrication
- Telecommunications

AAS – Electronic Engineering Technology

68 credit hours

FIRST YEAR

First Semester

CETT	1403	DC Circuits ¹
CETT	1425	Digital Fundamentals ¹
ENGL	1301	<i>Composition/Rhetoric I</i>
ENGR	1201	Introduction to Engineering
MATH	1314	<i>College Algebra</i>

Second Semester

CETT	1405	AC Circuits ¹
DFTG	1309	Basic Computer-Aided Drafting ¹
MATH	1316	<i>Trigonometry</i>
PHYS	1401	General Physics I

Summer

ECON	1301	<i>Introduction to Economics</i> ³
SPCH	1311	<i>Fundamentals of Speech Communication</i> ⁴

SECOND YEAR

First Semester

CETT	1431	Technical Programming
CETT	1445	Microprocessor
HUMA	1301	<i>Introduction to the Humanities</i> ⁵
MATH	2412	Pre-Calculus for Mathematics and Science
PHYS	1402	General Physics II

Second Semester

CETT	1457	Linear Integrated Circuits
EECT	1448	Digital Signal Processing (DSP)
ELMT	2435	Certified Electronics Technician Training (Capstone)
PHED/DANC		<i>Any activity course</i> ⁶

1 Tech Prep course which may have been completed in high school

2 May substitute ENGL 1302

3 May substitute ANTH 2351, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301

4 May substitute SPCH 1315 or SPCH 1321

5 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322

6 May substitute PHED 1338

Note: Students must pass with a C or better in all CETT, EECT, ELMT, ENGR, MATH, and PHYS courses.

Electro-Optical Specialization

67 credit hours

FIRST YEAR

First Semester

CETT	1403	DC Circuits ¹
CETT	1425	Digital Fundamentals ¹
ENGL	1301	<i>Composition/Rhetoric I</i>
ENGR	1201	Introduction to Engineering
MATH	1314	<i>College Algebra</i>

NOTE: *Italicized course numbers and titles denote AAS Core Curriculum.*

Second Semester

CETT	1405	AC Circuits ¹
DFTG	1309	Basic Computer-Aided Drafting ¹
MATH	1316	Trigonometry
PHYS	1401	General Physics I

Summer

ECON	1301	Introduction to Economics ³
SPCH	1311	Fundamentals of Speech Communication ⁴

SECOND YEAR

First Semester

HUMA	1301	Introduction to the Humanities ⁵
LOTT	1401	Introduction to Fiber Optics
LOTT	1443	Geometrical Optics I
LOTT	1444	Fundamentals of Laser and Laser Safety
PHED/DANC		Any activity course ⁶

Second Semester

ELMT	2435	Certified Electronics Technician Training (Capstone)
LOTT	2436	Wave Optics
LOTT	2449	Photonics
		Elective*

- 1 Tech Prep course which may have been completed in high school
 - 2 May substitute ENGL 1302
 - 3 May substitute ANTH 2351, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301
 - 4 May substitute SPCH 1315 or SPCH 1321
 - 5 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
 - 6 May substitute PHED 1338
- * Elective (3 credit hours): Any CETT (excluding CETT 1325 and CETT 1409), CPMT, EECT, ELMT, ENGR, ENTC, INMT, INTC, LOTT, or SMFT course not listed above with approval of Department Chair.

Certificates

Electronic Engineering Technology Certificate

33 credit hours

First Semester

CETT	1403	DC Circuits ¹
CETT	1425	Digital Fundamentals ¹
CETT	1445	Microprocessor
ENGR	1201	Introduction to Engineering
MATH	1314	College Algebra

Second Semester

CETT	1405	AC Circuits ¹
CETT	1457	Linear Integrated Circuits
EECT	1448	Digital Signal Processing (DSP)
ELMT	2435	Certified Electronics Technician Training (Capstone)

- 1 Tech Prep course which may have been completed in high school

Note: Students must pass with a C or better in all CETT, EECT, ELMT, ENGR, and MATH courses.

Electro-Optical Specialization

34 credit hours

First Semester

CETT	1403	DC Circuits ¹
CETT	1425	Digital Fundamentals ¹
ENGR	1201	Introduction to Engineering
LOTT	1401	Introduction to Fiber Optics
LOTT	1443	Geometrical Optics I

Second Semester

CETT	1405	AC Circuits ¹
ELMT	2435	Certified Electronics Technician Training (Capstone)
LOTT	1444	Fundamentals of Laser and Laser Safety
LOTT	2436	Wave Optics

- 1 Tech Prep course which may have been completed in high school

ELECTRONIC TECHNOLOGY

Also a Tech Prep Program

Department Chair:

Wayne JonesPRC-H230A972.377.1676

Academic Advisor:

Terrence BrennanPRC-F131972.377.1771

Trained electronic technicians are in high demand in our area. Industry at present has a shortage of over 3,000 technicians and forecasts this to increase over the next decade. Students in the Electronic Technology program can pursue training in one of three specialized areas: computer maintenance, general electronics, or instrumentation.

Program curriculum and laboratory equipment have been formally evaluated and endorsed by an advisory committee consisting of members of the electronics industry.

Through articulation agreements, students can transfer their completed program toward a bachelor's degree into several colleges and universities. Students planning to transfer to a college or university should check with the Collin academic advisor prior to beginning this program to verify course transferability.

Career Opportunities

Students completing the Electronic Technology degree program will receive quality training for the following fields:

- Advanced Manufacturing Equipment Applications
- Avionics and Space Communications
- Biomedical Applications and Design
- Computer Systems Applications
- Laser and Fiber Optics Applications
- Printed Circuit Board Design and Manufacturing
- Semiconductor Wafer Fabrication
- Telecommunications

AAS – Electronic Technology

67 credit hours

FIRST YEAR

First Semester

CETT 1403	DC Circuits ¹
CETT 1425	Digital Fundamentals ¹
<i>ENGL 1301</i>	<i>Composition/Rhetoric I</i>
ENGR 1201	Introduction to Engineering
<i>MATH 1314</i>	<i>College Algebra</i>

Second Semester

CETT 1405	AC Circuits ¹
DFTG 1309	Basic Computer-Aided Drafting ¹
<i>MATH 1316</i>	<i>Trigonometry</i>
PHYS 1401	General Physics I

Summer

<i>ECON 1301</i>	<i>Introduction to Economics</i> ³
<i>SPCH 1311</i>	<i>Fundamentals of Speech Communication</i> ⁴

SECOND YEAR

First Semester

CETT 1421	Electronic Fabrication
CETT 1429	Solid State Devices ¹
ELMT 2437	Electronic Troubleshooting, Service, and Repair
<i>HUMA 1301</i>	<i>Introduction to the Humanities</i> ⁵
<i>PHED/DANC</i>	<i>Any activity course</i> ⁶

Second Semester

CETT 1457	Linear Integrated Circuits
EECT 1448	Digital Signal Processing (DSP)
ELMT 2435	Certified Electronics Technician Training (Capstone)
Elective*	

- 1 Tech Prep course which may have been completed in high school
- 2 May substitute ENGL 1302
- 3 May substitute ANTH 2351, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301
- 4 May substitute SPCH 1315 or SPCH 1321

- 5 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
- 6 May substitute PHED 1338
- * Elective (3 credit hours): Any CETT (excluding CETT 1325 and CETT 1409), CPMT, EECT, ELMT, ENGR, ENTC, INMT, INTC, LOTT, or SMFT course not listed above with approval of Department Chair

Biomedical Instrumentation Electronic Specialization

67 credit hours

FIRST YEAR

First Semester

CETT 1403	DC Circuits ¹
CETT 1425	Digital Fundamentals ¹
<i>ENGL 1301</i>	<i>Composition/Rhetoric I</i>
ENGR 1201	Introduction to Engineering
<i>MATH 1314</i>	<i>College Algebra</i>

Second Semester

CETT 1405	AC Circuits ¹
DFTG 1309	Basic Computer-Aided Drafting ¹
<i>MATH 1316</i>	<i>Trigonometry</i>
PHYS 1401	General Physics I

Summer

<i>ECON 1301</i>	<i>Introduction to Economics</i> ³
<i>SPCH 1311</i>	<i>Fundamentals of Speech Communication</i> ⁴

SECOND YEAR

First Semester

BIOM 1355	Medical Electronic Applications
CETT 1429	Solid State Devices ¹
ELMT 2437	Electronic Troubleshooting, Service, and Repair
<i>HUMA 1301</i>	<i>Introduction to Humanities</i> ⁵
INTC 1307	Electronic Test Equipment
<i>PHED/DANC</i>	<i>Any activity course</i> ⁶

Second Semester

BIOM 1280	Cooperative Education – Biomedical Technology/Technician
CETT 1457	Linear Integrated Circuits
ELMT 2435	Certified Electronics Technician Training (Capstone)
Elective*	

- 1 Tech Prep course which may have been completed in high school
- 2 May substitute ENGL 1302
- 3 May substitute ANTH 2351, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301
- 4 May substitute SPCH 1315 or SPCH 1321

- 5 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
- 6 May substitute PHED 1338
- * Elective (3 credit hours): Any CETT (excluding CETT 1325 and CETT 1409), CPMT, EECT, ELMT, ENGR, ENTC, INMT, INTC, LOTT, or SMFT course not listed above with approval of Department Chair

Computer Maintenance Electronic Specialization

67 credit hours

FIRST YEAR

First Semester

CETT	1403	DC Circuits ¹
CETT	1425	Digital Fundamentals ¹
ENGL	1301	Composition/Rhetoric I
ENGR	1201	Introduction to Engineering
MATH	1314	College Algebra

Second Semester

CETT	1405	AC Circuits ¹
DFTG	1309	Basic Computer-Aided Drafting ¹
MATH	1316	Trigonometry
PHYS	1401	General Physics I

Summer

ECON	1301	Introduction to Economics ³
SPCH	1311	Fundamentals of Speech Communication ⁴

SECOND YEAR

First Semester

CETT	1431	Technical Programming
CETT	1445	Microprocessor
CPMT	1411	Introduction to Computer Maintenance ¹
HUMA	1301	Introduction to the Humanities ⁵
PHED/DANC		Any activity course ⁶

Second Semester

CETT	1457	Linear Integrated Circuits
CPMT	1445	Computer Systems Maintenance
ELMT	2435	Certified Electronics Technician Training (Capstone) Elective*

- 1 Tech Prep course which may have been completed in high school
- 2 May substitute ENGL 1302
- 3 May substitute ANTH 2351, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301
- 4 May substitute SPCH 1315 or SPCH 1321
- 5 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342,

- ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
- 6 May substitute PHED 1338
- * Elective (3 credit hours): Any CETT (excluding CETT 1325 and CETT 1409), CPMT, EECT, ELMT, ENGR, ENTC, INMT, INTC, LOTT, or SMFT course not listed above with approval of Department Chair

Certificates

Electronic Technology Certificate

34 credit hours

First Semester

CETT	1403	DC Circuits ¹
CETT	1421	Electronic Fabrication
CETT	1425	Digital Fundamentals ¹
CETT	1429	Solid State Devices ¹
ENGR	1201	Introduction to Engineering

Second Semester

CETT	1405	AC Circuits ¹
EECT	1448	Digital Signal Processing (DSP)
ELMT	2435	Certified Electronics Technician Training (Capstone)
ELMT	2437	Electronic Troubleshooting, Service, and Repair

- 1 Tech Prep course which may have been completed in high school

Biomedical Instrumentation Electronic Specialization Certificate

30 credit hours

FIRST YEAR

First Semester

BIOM	1355	Medical Electronic Applications
CETT	1403	DC Circuits ¹
CETT	1425	Digital Fundamentals ¹
ENGR	1201	Introduction to Engineering
INTC	1307	Electronic Test Equipment

Second Semester

BIOM	1280	Cooperative Education – Biomedical Technology/Technician
CETT	1405	AC Circuits ¹
ELMT	2435	Certified Electronics Technician Training (Capstone)
ELMT	2437	Electronic Troubleshooting, Service and Repair

- 1 Tech Prep course which may have been completed in high school

Computer Maintenance Electronic Specialization

34 credit hours

First Semester

CETT	1403	DC Circuits ¹
CETT	1425	Digital Fundamentals ¹
CETT	1431	Technical Programming
CPMT	1411	Introduction to Computer Maintenance ¹

NOTE: The second digit in a course number indicates the number of credit hours for that course.

ENGR	1201	Introduction to Engineering
Second Semester		
CETT	1405	AC Circuits ¹
CETT	1445	Microprocessor
CPMT	1445	Computer Systems Maintenance
ELMT	2435	Certified Electronics Technician Training (Capstone)

1 Tech Prep course which may have been completed in high school

EMERGENCY MEDICAL SERVICES PROFESSIONS

Program Director:

Pat McAuliffCPC-A206972.548.6836

Academic Advisor:

Tori HoffmanCPC-A108C972.548.6779

Collin's Emergency Medical Services Professions program establishes an excellent foundation for careers in emergency medicine and other related health care fields. Three tracks are available, including:

- Emergency Medical Technician – Basic 5 credit hours
- (Included in the prerequisites for degree and certificate)
- AAS Emergency Medical Services Professions 70 credit hours
- Emergency Medical Services Professions Certificate 39 credit hours

Students planning to transfer to a college or university should check with a Collin academic advisor prior to beginning this program to verify course transferability.

Admission Requirements

All students:

- High school diploma or GED
- 18 years of age
- Completion of program application
- Complete Collin reading and mathematics assessment tests
- Certified as American Heart Association CPR for Health Care Provider or Red Cross CPR for the Professional Rescuer
- Personal interview
- Completion of immunizations required by the Texas Department of Health (TDH)*
- Drug screen
- Criminal history check

* *It is important to note that one of the required vaccinations, Hepatitis B, consists of a three dose series, which can take up to 7 months to complete. Individuals unable to receive the HBV must inform the program director. In such cases the applicant must sign a declination form. All immunizations must be complete before the first clinical visit.*

Registration is by permission only. Additional information and applications may be obtained from the program director or the Social Sciences, Health, and Public Services Office.

AAS – Emergency Medical Services Professions or Emergency Medical Services Professions Certificate (Paramedic Students):

- Texas Department of Health or National Registry EMT-Basic Certification
- PSB examination for Allied Health Professionals (offered at specific times throughout the year)
- Completion of local college assessments in reading, writing, and mathematics (must place at or above college-level in all assessments)

Career Opportunities

- Cardiac Lab Technician
- Emergency Department Assistant
- Patient Care Technician
- Intensive Care Technician
- Firefighter/Paramedic
- Paramedic (non-911)
- Emergency Medical Technician (non-911)

AAS – Emergency Medical Services Professions

70 credit hours

Prerequisites

BIOL	1406	General Biology I
EMSP	1160	Clinical – Emergency Medical Technology/Technician – Basic ¹
EMSP	1401	Emergency Medical Technician – Basic ¹
ENGL	1301	<i>Composition/Rhetoric I</i>
MATH	1314	<i>College Algebra</i> ³

FIRST YEAR

First Semester

BIOL	2401	Anatomy and Physiology I
EMSP	1338	Introduction to Advanced Practice
EMSP	1356	Patient Assessment and Airway Management
SPCH	1315	<i>Public Speaking I</i>
PHED	1100	Beginning Weight Training

Second Semester

BIOL	2402	Anatomy and Physiology II
EMSP	1161	Clinical – Advanced I
EMSP	2434	Medical Emergencies
EMSP	2444	Cardiology

Summer

COSC	1300	Computer Essentials
EMSP	1162	Clinical – Advanced II
EMSP	1355	Trauma Management

SECOND YEAR

First Semester

EMSP	2260	Clinical – Advanced III
EMSP	2330	Special Populations
EMSP	2338	EMS Operations

NOTE: *Italicized course numbers and titles denote AAS Core Curriculum.*

PHIL 2306 Introduction to Ethics⁵

PSYC 2301 General Psychology⁶

Second Semester

EMSP 2243 Assessment Based Management (Capstone)

EMSP 2563 Clinical – Advanced IV

- 1 A student that has the EMT–Basic certification has met this requirement
- 2 May substitute ENGL 1302
- 3 May substitute a higher-level mathematics course
- 4 May substitute SPCH 1321
- 5 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, HUMA 1301, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2307, SPAN 2321, or SPAN 2322
- 6 May substitute ANTH 2351, ECON 1301, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2302, or SOCI 1301

Certificate

Emergency Medical Services Professions Certificate

39 credit hours

Prerequisites

EMSP 1160 Clinical – Emergency Medical Technology/Technician – Basic¹

EMSP 1401 Emergency Medical Technician – Basic¹

FIRST YEAR

First Semester

EMSP 1338 Introduction to Advanced Practice

EMSP 1356 Patient Assessment and Airway Management

Second Semester

EMSP 1161 Clinical – Advanced I

EMSP 2434 Medical Emergencies

EMSP 2444 Cardiology

Summer

EMSP 1162 Clinical – Advanced II

EMSP 1355 Trauma Management

SECOND YEAR

First Semester

EMSP 2260 Clinical – Advanced III

EMSP 2330 Special Populations

EMSP 2338 EMS Operations

Second Semester

EMSP 2243 Assessment Based Management (Capstone)

EMSP 2563 Clinical – Advanced IV

- 1 A student that has the EMT–Basic certification has met this requirement

FIRE SCIENCE

Program Director:

Pat McAuliffCPC-A206972.548.6837

Academic Advisor:

Tori HoffmanCPC-A108C972.548.6779

The firefighter with a well-balanced educational background will be better prepared to serve and protect the community. Collin's Associate of Applied Science degree in Fire Science is designed to give a broad perspective on various facets of providing fire protection. The program is applicable for students wishing to enter the fire service and for persons already employed as firefighters or in related career fields. Students acquire the technical knowledge needed to combat the fire problems created by modern living.

Full-time, full-paid firefighters employed by any political subdivision who are enrolled in fire science courses within Collin's Fire Science program are exempt from paying tuition and laboratory fees.

Students planning to transfer to a college or university should check with the Collin academic advisor prior to beginning this program.

Students completing the Basic Firefighter Certificate program (Fire Academy) are eligible to take the State Certification Exam for Basic Firefighter.

Students interested in enrolling in the Fire Academy should contact the Fire Science Office at 972.548.6836.

Additional information may be obtained from the Director of Fire Science, the Social Sciences, Health, and Public Services Office, or at the Fire Science web site: iws.ccccd.edu/firescience/fire.html.

Additional Admissions Requirements for Firefighter Certification Courses

- Have proof of high school graduation or GED
- Complete program application
- Complete Collin reading and mathematics assessments
- Complete the physical ability exam and personal interview scheduled through the program director
- Candidates to the Fire Academy must be in good academic standing
- Criminal history check

Registration is by permission only. Additional information and applications may be obtained from the program director or the Social Sciences, Health, and Public Services Office.

Career Opportunities

Today's fire protection responsibilities provide new and exciting challenges in both the public and private sectors. Students enrolled in the Fire Science program prepare for occupations involving fire suppression, investigation, prevention, and education. These challenging job opportunities include:

- Fire Department Officer
- Fire Equipment Sales and Service Representative

NOTE: The second digit in a course number indicates the number of credit hours for that course.

- Firefighter
- Hazardous Material Team Member
- Industrial Fire Protection Technician
- Municipal Emergency Administrator
- Safety Technician

AAS – Fire Science

62 credit hours

FIRST YEAR

First Semester

ECON	1301	Introduction to Economics ¹
ENGL	1301	<i>Composition/Rhetoric I</i>
FIRT	1301	Fundamentals of Fire Protection
MATH	1332	<i>Contemporary Mathematics</i> ³
PHED	1100	<i>Beginning Weight Training</i> ⁴

Second Semester

CHEM	1405	Introduction to Chemistry I
FIRT	1315	Hazardous Materials I
GOVT	2301	American Government I
HUMA	1301	<i>Introduction to the Humanities</i> ⁵
SPCH	1311	<i>Fundamentals of Speech Communication</i> ⁶

SECOND YEAR

First Semester

ENGL	2311	Technical and Business Writing
FIRT	1329	Building Codes and Construction
FIRT	1338	Fire Protection Systems
PSYC	2302	<i>Applied Psychology</i> ⁷

Second Semester

FIRT	1303	Fire and Arson Investigation I
FIRT	1305	Public Education Programs
FIRT	1307	Fire Prevention Codes and Inspections
FIRT	1309	Fire Administration I
FIRT	1345	Hazardous Materials II
FIRT	1347	Industrial Fire Protection
FIRT	1349	Fire Administration II (Capstone)

- 1 May substitute ECON 2301 or ECON 2302
- 2 May substitute ENGL 1302
- 3 May substitute MATH 1324 or MATH 1314 (recommended for transfer students)
- 4 May substitute PHED 1338
- 5 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
- 6 May substitute SPCH 1315 or SPCH 1321
- 7 May substitute ANTH 2351, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, or SOCI 1301

AAS – Basic Firefighter Certification Specialization

66 credit hours

FIRST YEAR

First Semester

ENGL	1301	<i>Composition/Rhetoric I</i>
FIRT	1301	Fundamentals of Fire Protection
MATH	1332	<i>Contemporary Mathematics</i> ²
PHED	1100	<i>Beginning Weight Training</i> ³

Second Semester

CHEM	1405	Introduction to Chemistry I
FIRT	1315	Hazardous Materials I
GOVT	2301	American Government I
HUMA	1301	<i>Introduction to the Humanities</i> ⁴
SPCH	1311	<i>Fundamentals of Speech Communication</i> ⁵

SECOND YEAR

First Semester

ENGL	2311	Technical and Business Writing
FIRT	1329	Building Codes and Construction
FIRT	1338	Fire Protection Systems
PSYC	2302	<i>Applied Psychology</i> ⁶

Second Semester

FIRS	1301	Firefighter Certification I
FIRS	1407	Firefighter Certification II
FIRS	1313	Firefighter Certification III
FIRS	1319	Firefighter Certification IV
FIRS	1323	Firefighter Certification V
FIRS	1329	Firefighter Certification VI

Third Semester

EMSP	1160	Clinical – Emergency Medical Technology/Technician – Basic
EMSP	1401	Emergency Medical Technician – Basic
FIRS	1433	Firefighter Certification VII (Capstone)

- 1 May substitute ENGL 1302
- 2 May substitute MATH 1324 or MATH 1314 (recommended for transfer students)
- 3 May substitute PHED 1338
- 4 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
- 5 May substitute SPCH 1315 or SPCH 1321
- 6 May substitute ANTH 2351, ECON 1301, ECON 2301, ECON 2302, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, or SOCI 1301

NOTE: Italicized course numbers and titles denote AAS Core Curriculum.

AAS – Fire Officer Certification Specialization

62 credit hours

FIRST YEAR

First Semester

ECON	1301	Introduction to Economics ¹
ENGL	1301	Composition/Rhetoric I
FIRT	1301	Fundamentals of Fire Protection
MATH	1332	Contemporary Mathematics ³
PHED	1100	Beginning Weight Training ⁴

Second Semester

CHEM	1405	Introduction to Chemistry I
FIRT	1315	Hazardous Materials I
GOVT	2301	American Government I
HUMA	1301	Introduction to the Humanities ⁵
SPCH	1311	Fundamentals of Speech Communication ⁶

SECOND YEAR

First Semester

ENGL	2311	Technical and Business Writing
FIRT	1329	Building Codes and Construction
FIRT	1338	Fire Protection Systems
PSYC	2302	Applied Psychology ⁷

Second Semester

FIRT	1303	Fire and Arson Investigation I
FIRT	1307	Fire Prevention Codes and Inspections
FIRT	1309	Fire Administration I
FIRT	1331	Firefighting Strategies and Tactics I
FIRT	1349	Fire Administration II
FIRT	1355	Methods of Teaching
FIRT	2351	Company Fire Officer (Capstone)

1 May substitute ECON 2301 or ECON 2302

2 May substitute ENGL 1302

3 May substitute MATH 1324 or MATH 1314 (recommended for transfer students)

4 May substitute PHED 1338

5 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322

6 May substitute SPCH 1315 or SPCH 1321

7 May substitute ANTH 2351, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, or SOCI 1301

Certificates

Basic Firefighter Certificate

28 credit hours

First Semester

EMSP	1160	Clinical – Emergency Medical Technology/Technician – Basic
EMSP	1401	Emergency Medical Technician – Basic
FIRS	1301	Firefighter Certification I
FIRS	1407	Firefighter Certification II
FIRS	1313	Firefighter Certification III

Second Semester

FIRS	1319	Firefighter Certification IV
FIRS	1323	Firefighter Certification V
FIRS	1329	Firefighter Certification VI
FIRS	1433	Firefighter Certification VII (Capstone)

Fire Officer Certificate

21 credit hours

First Semester

FIRT	1303	Fire and Arson Investigation I
FIRT	1307	Fire Prevention Codes and Inspections
FIRT	1309	Fire Administration I

Second Semester

FIRT	1331	Firefighting Strategies and Tactics I
FIRT	1349	Fire Administration II
FIRT	1355	Methods of Teaching

Summer

FIRT	2351	Company Fire Officer (Capstone)
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HOSPITALITY AND FOOD SERVICE MANAGEMENT

Also a Tech Prep Program

Department Chair:

Karen MusaPRC-F112972.377.1672

Academic Advisor:

Terrence BrennanPRC-F131972.377.1771

Students completing the Hospitality and Food Service Management program at Collin will be qualified for a variety of mid-management positions and career advancement in the hospitality industry. Students in this program may choose from three degree options: Hotel/Restaurant Management degree, Culinary Arts specialization, or Dietary Manager specialization.

The Hospitality and Food Service Management curriculum emphasizes problem-solving, creativity, and industry involvement, in addition to practical on-the-job experience. Upon completion of this degree, the student will have achieved almost 1,000 hours of work experience directly related to this chosen field.

Day and night classes are open-entry courses that provide a flexible schedule and meet a variety of individual needs. These classes may also be taken for continuing education credit.

Students planning to transfer to a college or university should check with the Collin academic advisor prior to beginning this program to verify course transferability.

Accreditation and Transfer

Collin's Dietary Manager program curriculum has been approved by the Dietary Manager's Association (DMA). Articulation agreements are being developed with nationally recognized hospitality programs such as the University of North Texas, Johnson & Wales University, Texas Tech University, and the University of Houston.

Certifications

Students completing the Dietary Manager specialization will be eligible to take the Dietary Manager Certification exam offered by the Dietary Manager's Association. Students will be classified as a Certified Dietary Manager (CDM) and Certified Food Protection Professional (CFPP) upon successful completion of the certification examination. The Dietary Manager Program curriculum meets the minimum requirements set by the Texas Department of Health for food service directors employed in long-term care facilities.

Additional Admissions Requirements

- Complete program application procedure
- Complete Collin's reading, writing, and mathematics assessments

Additional information and applications for the program may be obtained from the department chair or the Business and Computer Science Office.

Career Opportunities

The Hotel/Restaurant Management degree prepares students for many different job opportunities in a variety of firms including hotels, bed and breakfasts, retirement facilities, restaurants, country clubs, and hospitals. Management and supervisory positions may be found in the following occupational areas:

- Accounting and Finance
- Facilities Management
- Food and Beverage Management
- Human Resources
- Rooms Division
- Sales and Marketing
- Security

AAS – Hotel/Restaurant Management

63 credit hours

FIRST YEAR

First Semester

<i>ENGL 1301</i>	<i>Composition/Rhetoric I</i>
HAMG 1321	Introduction to Hospitality Industry ²
HAMG 1340	Hospitality Legal Issues

HAMG 1380 Cooperative Education – Hospitality Administration and Management, General

HAMG 2332 Hospitality Financial Management

SPCH 1321 Business and Professional Speaking³

Second Semester

COSC 1300 Computer Essentials

HAMG 1313 Front Office Procedures

HAMG 1324 Hospitality Human Resources Management

HAMG 2307 Hospitality Marketing and Sales

HAMG 2337 Hospitality Facilities Management

Summer

CHEF 1301 Basic Food Preparation

HAMG 2301 Principles of Food and Beverage Operations

SECOND YEAR

First Semester

CHEF 1305 Sanitation and Safety^{2, 4, 5}

HAMG 2305 Hospitality Management and Leadership

HUMA 1301 Introduction to the Humanities⁶

MATH 1332 Contemporary Mathematics⁷

PHED/DANC Any activity course⁸

ECON 1301 Introduction to Economics⁹

TRVM 2301 Introduction to Convention/Meeting Management

Second Semester

HAMG 2581 Cooperative Education – Hospitality Administration and Management, General (Capstone)

1 May substitute ENGL 1302

2 Tech Prep course which may have been completed in high school

3 May substitute SPCH 1311 or SPCH 1315

4 Certification in ServSafe

5 Certification in Food Protection Management

6 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322

7 May substitute MATH 1324 or MATH 1314 (recommended for transfer students)

8 May substitute PHED 1338

9 May substitute ANTH 2351, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301

Culinary Arts Specialization

69 credit hours

FIRST YEAR

First Semester

BIOL 1322 General Nutrition

CHEF 1301 Basic Food Preparation

NOTE: *Italicized course numbers and titles denote AAS Core Curriculum.*

CHEF 1305 Sanitation and Safety^{1,2,3}
 CHEF 1380 Cooperative Education – Culinary Arts/Chef Training

ENGL 1301 *Composition/Rhetoric I*⁴

HAMG 1321 Introduction to Hospitality Industry¹

HAMG 2332 Hospitality Financial Management

SPCH 1321 *Business and Professional Speaking*⁵

Second Semester

COSC 1300 Computer Essentials

CHEF 1341 American Regional Cuisine

CHEF 1345 International Cuisine

CHEF 2301 Intermediate Food Preparation

HAMG 2301 Principles of Food and Beverage Operations

PSTR 1301 Fundamentals of Baking

Summer

MATH 1332 *Contemporary Mathematics*⁶

SECOND YEAR

First Semester

CHEF 2331 Advanced Food Preparation

HAMG 1340 Hospitality Legal Issues

HAMG 2305 Hospitality Management and Leadership

HAMG 2307 Hospitality Marketing and Sales

HUMA 1301 *Introduction to the Humanities*⁷

PHED/DANC *Any activity course*⁸

ECON 1301 *Introduction to Economics*⁹

Second Semester

CHEF 2581 Cooperative Education – Culinary Arts/Chef Training (Capstone)

- 1 Tech Prep course which may have been completed in high school
- 2 Certification in ServSafe
- 3 Certification in Food Protection Management
- 4 May substitute ENGL 1302
- 5 May substitute SPCH 1311 or SPCH 1315
- 6 May substitute MATH 1324 or MATH 1314 (recommended for transfer students)
- 7 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
- 8 May substitute PHED 1338
- 9 May substitute ANTH 2351, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301

Certificates

Hotel/Restaurant Management Certificate

27 credit hours

First Semester

HAMG 1321 Introduction to Hospitality Industry¹

HAMG 1340 Hospitality Legal Issues

HAMG 2307 Hospitality Marketing and Sales

HAMG 2332 Hospitality Financial Management

Second Semester

CHEF 1305 Sanitation and Safety^{1,2,3}

HAMG 2301 Principles of Food and Beverage Operations

HAMG 2305 Hospitality Management and Leadership

HAMG 2337 Hospitality Facilities Management

RSTO 1380 Cooperative Education – Food and

Beverage/Restaurant Operations Manager (Capstone)

- 1 Tech Prep course which may have been completed in high school
- 2 Certification in ServSafe
- 3 Certification in Food Protection Management

Catering Management Specialization

24 credit hours

First Semester

BUSG 2309 Small Business Management

CHEF 1305 Sanitation and Safety

HAMG 2307 Hospitality Marketing and Sales

HAMG 2332 Hospitality Financial Management

Second Semester

HAMG 2301 Principles of Food and Beverage Operations

HAMG 2337 Hospitality Facilities Management

RSTO 1380 Cooperative Education – Restaurant, Culinary, and Catering Management/Manager (Capstone)

Elective*

- * Elective (3 credit hours): Any BUSG, CHEF, HAMG, or TRVM course (excluding CHEF 1380, CHEF 2581, HAMG 1380, HAMG 2581, and TRVM 1380)

Culinary Arts Specialization

27 credit hours

First Semester

CHEF 1301 Basic Food Preparation

CHEF 1341 American Regional Cuisine

CHEF 2301 Intermediate Food Preparation

HAMG 1321 Introduction to Hospitality Industry¹

Second Semester

CHEF 1305 Sanitation and Safety^{1,2,3}

CHEF 1345 International Cuisine

CHEF 1380 Cooperative Education – Culinary Arts/Chef Training (Capstone)

NOTE: The second digit in a course number indicates the number of credit hours for that course.

CHEF 2331 Advanced Food Preparation
 HAMG 2301 Principles of Food and Beverage Operations

- 1 Tech Prep course which may have been completed in high school
- 2 Certification in ServSafe
- 3 Certification in Food Protection Management

Dietary Manager Specialization

18 credit hours

First Semester

BIOL 1323 Nutrition and Diet Therapy
 HAMG 1324 Hospitality Human Resources Management
 HAMG 1380 Cooperative Education – Hospitality Administration and Management, General

Second Semester

CHEF 1305 Sanitation and Safety^{1,2,3}
 CHEF 1380 Cooperative Education – Culinary Arts/Chef Training (Capstone)
 HAMG 2301 Principles of Food and Beverage Operations

- 1 Tech Prep course which may have been completed in high school
- 2 Certification in ServSafe
- 3 Certification in Food Protection Management

Hotel Management Specialization

24 credit hours

First Semester

HAMG 1321 Introduction to Hospitality Industry¹
 HAMG 1340 Hospitality Legal Issues
 HAMG 2307 Hospitality Marketing and Sales
 HAMG 2332 Hospitality Financial Management

Second Semester

HAMG 1313 Front Office Procedures
 HAMG 1324 Hospitality Human Resources Management
 HAMG 1380 Cooperative Education – Hospitality Administration and Management (Capstone)
 HAMG 2337 Hospitality Facilities Management

- 1 Tech Prep course which may have been completed in high school

Meetings and Event Management Specialization

24 credit hours

First Semester

HAMG 1321 Introduction to Hospitality Industry¹
 HAMG 2307 Hospitality Marketing and Sales
 TRVM 1327 Special Events Design
 TRVM 2301 Introduction to Convention/Meeting Management

Second Semester

HAMG 2301 Principles of Food and Beverage Operations
 TRVM 1380 Cooperative Education – Tourism and Travel Services Management (Capstone)

TRVM 2333 Applied Convention/Meetings Management
 TRVM 2355 Exposition and Trade Show Operations

- 1 Tech Prep course which may have been completed in high school

Pastry Arts Specialization

15 credit hours

First Semester

CHEF 1305 Sanitation and Safety¹
 PSTR 1301 Fundamentals of Baking
 PSTR 1340 Plated Desserts

Second Semester

PSTR 1380 Cooperative Education – Baking and Pastry Arts/Baker/Pastry Chef (Capstone)
 PSTR 2331 Advanced Pastry Shop

- 1 Tech Prep course which may have been completed in high school

INFORMATION SYSTEMS CYBERSECURITY

Also a Tech Prep Program

69 credit hours

Department Chair:

Wayne JonesPRC-H230A972.377.1676

Academic Advisor:

Terrence BrennanPRC-F131972.377.1778

The Information Systems Cybersecurity AAS degree prepares students for a career in cybersecurity management and support in addition to the tasks relating to network management, system administration, technical support, hardware/software installation, and equipment repair. The program graduate will be able to design and install secure network systems based on customer requirements, monitor and maintain network traffic and security, and maintain network hardware and software. Courses and hands-on labs in this program will assist the graduate in preparing to take a variety of Cisco, Microsoft, and CompTIA certification examinations. Students planning to transfer to a college or university should check with the Collin academic advisor prior to beginning this program.

Career Opportunities

Information Systems Cybersecurity is a fast-growing and high-demand field and includes career opportunities in the following areas:

- Network Administrator
- Network Auditor
- Network Consultant

NOTE: Italicized course numbers and titles denote AAS Core Curriculum.

- Systems Administrator
- Security Analyst
- Security Consultant

AAS – Information Systems Cybersecurity

69 credit hours

All ITCC, ITMC, ITNW, and ITSY courses are offered in eight-week express sessions.

FIRST YEAR

First Semester

ENGL	1301	Composition/Rhetoric I ¹
ITMC	1358	Supporting Microsoft Windows Client Network Operating Systems (XP Pro)
ITNW	1358	Network+
ITNW	2401	Administering Servers
MATH	1314	College Algebra
PHED/DANC		Any activity course ²

Second Semester

ECON	2301	Macroeconomics ³
ITCC	1302	CCNA 1: Networking Basics ⁴
ITMC	2479	Implementing and Administering Security in a MS Server 2003 Network
ITNW	2373	Linux Operating System
ITNW	2404	Implementing, Managing, and Maintaining a Microsoft Windows 2003 Environment

Summer

ITCC	1306	CCNA 2: Router and Routing Basics ⁴
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SECOND YEAR

First Semester

ITCC	1342	CCNA 3: Switching Basic and Intermediate Routing ⁴
ITCC	1346	CCNA 4: WAN Technologies ⁴
ITSY	2300	Operating System Security
ITSY	2401	Firewalls and Network Security
SPCH	1311	Fundamentals of Speech Communication ⁵

Second Semester

HUMA	1301	Introduction to the Humanities ⁶
ITSY	2342	Incident Response and Handling
ITSY	2343	Computer System Forensics
ITSY	2359	Security Assessment and Auditing (Capstone)
ITSY	2441	Security Management Practices

1 May substitute ENGL 1302

2 May substitute PHED 1338

3 May substitute ANTH 2351, ECON 1301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301

4 Tech Prep course which may have been completed in high school

5 May substitute SPCH 1315 or SPCH 1321

6 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303,

DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322

Certificate

Information Systems Cybersecurity

41 credit hours

All ITCC, ITMC, ITNW, and ITSY courses are offered in eight-week express sessions.

First Semester

ITCC	1302	CCNA 1: Networking Basics ¹
ITCC	1306	CCNA 2: Router and Routing Basics ¹
ITNW	1358	Network+
ITNW	2401	Administering Servers

Second Semester

ITMC	2479	Implementing and Administering Security in a MS Server 2003 Network
ITNW	2404	Implementing, Managing, and Maintaining a Microsoft Windows 2003 Environment
ITSY	2300	Operating System Security
ITSY	2342	Incident Response and Handling
ITSY	2401	Firewalls and Network Security

Summer

ITSY	2343	Computer System Forensics
ITSY	2359	Security Assessment and Auditing (Capstone)
ITSY	2441	Security Management Practices

1 Tech Prep course which may have been completed in high school

INTERIOR AND ARCHITECTURAL DESIGN

Also a Tech Prep Program

Also a Marketable Skills Achievement Award Program

Department Chair:

Warner RichesonPRC-H114972.377.1689

Academic Advisor:

Terrence BrennanPRC-F131972.377.1771

The Interior and Architectural Design degree program prepares students to enter the world of spatial design. Specialized knowledge needed by an architect or interior designer includes spatial composition, drafting, space planning, building codes, and materials. Electives allow for more in-depth study of architecture, interior design, or illustration. Students are immediately valuable to employers upon graduation with our strong curriculum in CAD drafting. The programs strengths in advanced levels of drafting and modeling means students can position themselves within interior and architectural design firms to further their training and development in their respective fields.

Interior and Architectural Design are state-licensed professions

and all state requirements must be met before either title can be used. Accredited degrees in Interior Design and Architecture are available through four local institutions (UNT, UTA, El Centro College, and TCU). Students planning to transfer to a college or university should check with the Collin academic advisor prior to beginning this program to verify course transferability.

All new students: Please contact one of the Interior and Architectural Design faculty or the college academic advisor prior to registering for any INDS courses. Please call 972.377.1716 to make an appointment with a faculty member.

Career Opportunities

With an Associate of Applied Science degree in Interior and Architectural Design, the student will have the skills necessary to enter the profession as an assistant in an interior design firm, an architectural firm, a space planning or facilities management department of any large corporation, or to practice as an interior decorator, a salesperson in a retail home furnishings or home improvement products store, or a wholesale furnishings or fixtures showroom. The graduate will also be prepared for transfer to an accredited professional program in Interior Design or Architecture.

AAS – Interior and Architectural Design

67 credit hours

FIRST YEAR

First Semester

COSC	1300	Computer Essentials
DFTG	1309	Basic Computer-Aided Drafting ¹
INDS	1301	Basic Elements of Design
INDS	1319	Technical Drawing for Interior Designers
INDS	1341	Color Theory and Application

Second Semester

DFTG	2319	Intermediate Computer-Aided Drafting ¹
<i>ENGL</i>	<i>1301</i>	<i>Composition/Rhetoric I</i>
INDS	2313	Residential Design I
INDS	2321	Presentation Drawing
<i>SPCH</i>	<i>1311</i>	<i>Fundamentals of Speech Communication</i> ³

Summer

DFTG	2332	Advanced Computer-Aided Drafting
<i>MATH</i>	<i>1314</i>	<i>College Algebra</i>
<i>HUMA</i>	<i>1301</i>	<i>Introduction to the Humanities</i> ⁴
<i>PHED/DANC</i>		<i>Any activity course</i> ⁵

SECOND YEAR

First Semester

DFTG	1391	Special Topics in Drafting
INDS	1351	History of Interiors I
INDS	2335	Residential Design II
<i>ECON</i>	<i>1301</i>	<i>Introduction to Economics</i> ⁶
Elective*		

Second Semester

INDS	1345	Commercial Design I (Capstone)
INDS	1352	History of Interiors II
Elective*		
Elective*		

- 1 Tech Prep course which may have been completed in high school
 - 2 May substitute ENGL 1302
 - 3 May substitute SPCH 1315 or SPCH 1321
 - 4 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
 - 5 May substitute PHED 1338
 - 6 May substitute ANTH 2351, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301
- * Electives (9 credit hours): DFTG 1317, DFTG 1321, DFTG 2300, DFTG 2310, DFTG 2328, INDS 1315, INDS 2307, INDS 2315, INDS 2330, INDS 2331, or INDS 2337

Certificate

Interior and Architectural Design Certificate

42 credit hours

FIRST YEAR

First Semester

DFTG	1309	Basic Computer-Aided Drafting ¹
INDS	1301	Basic Elements of Design
INDS	1319	Technical Drawing for Interior Designers
INDS	1341	Color Theory and Application

Second Semester

DFTG	2319	Intermediate Computer-Aided Drafting ¹
INDS	2313	Residential Design I
INDS	2321	Presentation Drawing

SECOND YEAR

First Semester

INDS	1351	History of Interiors I
INDS	2335	Residential Design II
Elective*		

Second Semester

INDS	1345	Commercial Design I (Capstone)
INDS	1352	History of Interiors II
Elective*		
Elective*		

- 1 Tech Prep course which may have been completed in high school
- * Electives (9 credit hours): DFTG 1317, DFTG 1321, DFTG 2300, DFTG 2310, DFTG 2328, INDS 1315, INDS 2307, INDS 2315, INDS 2330, INDS 2331, or INDS 2337

NOTE: *Italicized course numbers and titles denote AAS Core Curriculum.*

Marketable Skills Achievement Award

MCAA – Interior and Architectural Design

12 credit hours

The Marketable Skills award in Interior and Architectural Design provides the basic skills for those students who want to acquire basic design office skills or update their present skills.

Prerequisite: Basic understanding of interior design office environment Approval of department is required. Students in Interior and Architectural Design Marketable Skills will receive training in several diversified areas of design. This program emphasizes the interior design office environment.

Career Options:

Students completing the marketable skills certificate program will receive quality training for the following fields:

- Assistant in an interior design or architectural firm
- Assistant in space planning or facility management department of any large corporation
- Retail office furniture store

DFTG	1317	Architectural Drafting – Residential
INDS	1301	Basic Elements of Design
INDS	1341	Color Theory and Application
INDS	1345	Commercial Design I (Capstone)

INTERPRETER PREPARATION PROGRAM/DEAF

Also see American Sign Language page 53.

Department Chair:

Henry WhalenSCC-B135972.881.5152
(TTY) 972.881.5138

Academic Advisor:

Amy ThroopPRC-F132972.377.1513

Because of the passage of the Americans with Disabilities Act, there is currently a national and statewide shortage of interpreters. Moreover, the quality as well as the quantity of the interpreters that the market demands is increasing.

The Interpreter Preparation Program/Deaf (IPPD) provides a focused and balanced education for students who desire to become sign language interpreters. With an emphasis on receptive skills, the program concentrates on synthesizing the study of American Sign Language (ASL), Deaf Culture, and interpreting as a profession. Interpreting requires excellence in ASL and a thorough knowledge of oneself and one's ethics because interpreters are privy to confidential information.

Collin's IPPD program has a greater number of deaf teachers and ASL assistants than non-deaf teachers and ASL assistants, which allows

students the opportunity to become fluent in ASL and to develop culturally appropriate behaviors and responses.

Students planning to transfer to a college or university should check with the Collin academic advisor prior to beginning this program to verify course transferability.

Pass/Fail Option

Non-degree-seeking students may take a sign language class as pass/fail. Degree-seeking students should not pursue this option. The pass/fail option will not satisfy the degree-seeking transfer requirements.

Note: Students may not convert a pass/fail grade to a letter grade. Foreign language classes, including sign language, cannot be audited. See page 20 for details.

Career Opportunities

The career opportunities for persons with an IPPD Associate of Applied Science degree and appropriate certification are broad and varied and include educational, and community-based employment. In addition, many interpreters are self-employed and work as independent contractors.

Career opportunities for persons with an Interpreter Trainee certificate are more limited.

AAS – Interpreter Preparation Program/Deaf

68 credit hours

FIRST YEAR

First Semester

COSC	1300	Computer Essentials
ENGL	1301	Composition/Rhetoric I
MATH	1332	Contemporary Mathematics ¹
SGNL	1401	American Sign Language (ASL): Beginning I ⁺
SPCH	1311	Fundamentals of Speech Communication ²

Second Semester

SGNL	1402	American Sign Language (ASL): Beginning II ⁺
SLNG	1311	Fingerspelling and Numbers
SLNG	1447	Deaf Culture
PHED/DANC		Any activity course ³
Technical Core#		

Summer

PHIL	2306	Introduction to Ethics ⁴
SGNL	2301	American Sign Language (ASL): Intermediate I ⁺

SECOND YEAR

First Semester

BUSG	2309	Small Business Management
PSYC	2302	Applied Psychology ⁵
SGNL	2302	American Sign Language (ASL): Intermediate II ⁺
SLNG	1321	Introduction to the Interpreting Profession
Technical Core#		

NOTE: The second digit in a course number indicates the number of credit hours for that course.

Second Semester

- SLNG 2266 Practicum I – Sign Language Interpretation and Translation
 SLNG 2301 Interpreting I
 Technical Core#

Summer

- SLNG 2267 Practicum II – Sign Language Interpretation and Translation (Capstone)
 SLNG 2311 Interpreting in Specialized Settings
 SLNG 2331 Interpreting III

- 1 May substitute MATH 1324 or 1314 (recommended for transfer students)
 2 May substitute SPCH 1315 or SPCH 1321
 3 PHED 1338 is recommended for IPPD majors
 4 PHIL 2306 is recommended for IPPD majors, but students may substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, HUMA 1301, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2307, SPAN 2321, or SPAN 2322
 5 May substitute ANTH 2351, ECON 1301, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, or SOCI 1301
 # Technical Core: Students MUST select 3 of the following courses (9 credit hours), no more than 3 credit hours of CRIJ or SOCI, with the approval of the Department Chair to complete the Technical Core: ANTH 2351; BMGT 2309; BUSI 1307; CRIJ 1301, CRIJ 1306, or CRIJ 1313; DRAM 1351; ENGL 1302; SLNG 1391; SOCI 1306 or SOCI 2319; SRGT 1301
 + American Sign Language courses are also transfer courses and may be used, at some institutions, to satisfy a Foreign Language requirement.

Certificate

Interpreter Trainee Certificate

34 credit hours

FIRST YEAR

First Semester

- SGNL 1401 American Sign Language (ASL): Beginning I+
 SLNG 1447 Deaf Culture
 Elective*
 Elective*

Second Semester

- SGNL 1402 American Sign Language (ASL): Beginning II+
 SLNG 1311 Fingerspelling and Numbers
PHED/DANC Any activity course'
 Elective*

Summer

- SGNL 2301 American Sign Language (ASL): Intermediate I+

SECOND YEAR

First Semester

- SGNL 2302 American Sign Language (ASL): Intermediate II+
 SLNG 1321 Introduction to the Interpreting Profession (Capstone)

- 1 May substitute PHED 1338
 * Electives (9 credit hours): ANTH 2351, BMGT 2309, BUSG 2309, BUSI 1307, DRAM 1351, ENGL 1301, ENGL 1302, or SPCH 2377
 + American Sign Language courses are also transfer courses and may be used to satisfy a Foreign Language requirement

MANAGEMENT DEVELOPMENT

Department Chair:

Russell KunzPRC-H230C972.377.1702

Academic Advisor:

Terrence BrennanPRC-F131972.377.1771

Management Development is no longer a field just for people who desire to be managers. Today organizations are empowering all individuals, giving them more responsibility and requiring more knowledge.

Collin's Management Development degree provides students the ability to relate with others, the skills to work in a team, the knowledge to initiate change, and the experience to solve problems. Topics include basic management foundations and theories, human resources management, human relations training, financial management, and capital acquisition skills.

This degree is also excellent for people who wish to major in another field but need some business and management skills. All organizations have a business approach that requires individuals to be adept at planning, organizing, leading, and controlling the many activities that accompany a successful business venture.

The Criminal Justice specialization is designed for law enforcement officers who want to be promoted in rank but lack the sufficient transferable coursework in a related field. The program will transfer directly to The University of North Texas or other universities with similar programs and will prepare officers to be promoted into supervision/management positions. This specialization focuses more on a general academic study of criminal justice.

The Project Management certificate was designed for people who work in fields where this knowledge, in addition to their primary degree work, is required to obtain a job. The course contents were created from recommendations by members of the Project Management Institute and will provide individuals with the necessary skills in negotiation and conflict management, process planning and outcome management, and various measures of control and costing.

Students planning to transfer to a college or university should check with the Collin academic advisor prior to beginning this program to verify course transferability.

Career Opportunities

Every business and organization has leaders and/or people who perform leadership tasks. Therefore, this degree can apply to any field including government and public service.

AAS – Management Development

61 credit hours

FIRST YEAR

First Semester

BMGT 1303	Principles of Management
BMGT 1307	High Performance Work Teams
COSC 1300	Computer Essentials
ENGL 1301	Composition/Rhetoric I
HUMA 1301	Introduction to the Humanities ²

Second Semester

ACCT 2301	Financial Accounting
BMGT 1301	Supervision
ECON 1301	Introduction to Economics ³
MATH 1332	Contemporary Mathematics ⁴
PHED/DANC	Any activity course ⁵
SPCH 1311	Fundamentals of Speech Communication ⁶

SECOND YEAR

First Semester

BMGT 2310	Financial Management
BMGT 2331	Principles of Quality Management
HRPO 2301	Human Resources Management
ITSW 1304	Introduction to Spreadsheets – Excel
PSYC 2302	Applied Psychology ⁷

Second Semester

BMGT 2309	Leadership
BMGT 2311	Management of Change
BMGT 2341	Strategic Management (Capstone)
BMGT 2382	Cooperative Education – Business Administration and Management, General ⁸
QCTC 1303	Quality Control

Note: May substitute BMGT 1342, BMGT 1343, BMGT 1344, HRPO 1306, IBUS 2341, LGLA 2337 for any BMGT, HRPO, or QCTC course, except for Capstone course

1 May substitute ENGL 1302

2 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322

3 May substitute ECON 2301 or ECON 2302

4 May substitute MATH 1324 or MATH 1314 (recommended for transfer students)

5 May substitute PHED 1338

6 May substitute SPCH 1315 or SPCH 1321

7 May substitute ANTH 2351, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, or SOCI 1301

8 May substitute BMGT 1343 with consent of department chair

Criminal Justice Specialization

61 credit hours

FIRST YEAR

First Semester

BMGT 1303	Principles of Management
BMGT 1307	High Performance Work Teams
COSC 1300	Computer Essentials
ENGL 1301	Composition/Rhetoric I
HUMA 1301	Introduction to the Humanities ²

Second Semester

BMGT 1301	Supervision
CRIJ 1301	Introduction to Criminal Justice
ECON 1301	Introduction to Economics ³
MATH 1332	Contemporary Mathematics ⁴
SPCH 1311	Fundamentals of Speech Communication ⁵

SECOND YEAR

First Semester

BMGT 2310	Financial Management
BMGT 2331	Principles of Quality Management
CRIJ 1306	Court Systems and Practices
CRIJ 2323	Legal Aspects of Law Enforcement
PHED/DANC	Any activity course ⁶
PSYC 2302	Applied Psychology ⁷

Second Semester

BMGT 2309	Leadership
BMGT 2311	Management of Change (Capstone)
BMGT 2382	Cooperative Education – Business Administration and Management, General ⁸
CRIJ 1307	Crime in America
HRPO 2301	Human Resources Management

Note: May substitute BMGT 1342, BMGT 1343, BMGT 1344, HRPO 1306, IBUS 2341, LGLA 2337 for any BMGT, HRPO, or QCTC course, except for Capstone course

1 May substitute ENGL 1302

2 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322

3 May substitute ECON 2301 or ECON 2302

- 4 May substitute MATH 1324 or MATH 1314 (recommended for transfer students)
- 5 May substitute SPCH 1315 or SPCH 1321
- 6 May substitute PHED 1338
- 7 May substitute ANTH 2351, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, or SOCI 1301
- 8 May substitute BMGT 1344 with consent of Department Chair

Certificates

Management Development Certificate

18 credit hours

First Semester

- BMGT 1301 Supervision¹
 BMGT 1303 Principles of Management
 BMGT 2310 Financial Management

Second Semester

- BMGT 2309 Leadership (Capstone)
 BMGT 2311 Management of Change
 BMGT 2341 Strategic Management

- 1 May substitute QCTC 1303

Criminal Justice Specialization

15 credit hours

First Semester

- BMGT 1301 Supervision
 BMGT 1303 Principles of Management
 CRIJ 1301 Introduction to Criminal Justice

Second Semester

- BMGT 2309 Leadership (Capstone)
 CRIJ 1307 Crime in America

Human Resources Management Specialization

15 credit hours

First Semester

- BMGT 1301 Supervision¹
 BMGT 1303 Principles of Management
 BMGT 1307 High Performance Work Teams

Second Semester

- BMGT 2309 Leadership (Capstone)
 HRPO 2301 Human Resources Management

- 1 May substitute QCTC 1303

Mediation Specialization

18 credit hours

First Semester

- BMGT 1344 Negotiations and Conflict Management
 BMGT 2309 Leadership
 LGLA 2337 Mediation

Second Semester

- BUSI 2301 Business Law
 HRPO 1306 Basic Mediator Training
 PSYC 2302 Applied Psychology

Note: This certificate provides eligibility for a credentialing exam.

Project Management Certificate

18 credit hours

First Semester

- BMGT 1343 Project Management
 BMGT 1344 Negotiations and Conflict Management
 BMGT 2311 Management of Change

Second Semester

- BMGT 1342 Project Scope and Risk Management
 BMGT 2309 Leadership (Capstone)
 INEW 2330 Comprehensive Software Project I: Planning and Design¹

- 1 May substitute QCTC 1303

Note: This certificate provides eligibility for a credentialing exam.

Quality Management Specialization

15 credit hours

First Semester

- BMGT 1301 Supervision
 BMGT 1303 Principles of Management
 QCTC 1303 Quality Control

Second Semester

- BMGT 2309 Leadership (Capstone)
 BMGT 2331 Principles of Quality Management

MARKETING

Also a Tech Prep Program

Also a Marketable Skills Achievement Award Program

Department Chair:

Russell KunzPRC-H230C972.377.1702

Academic Advisor:

Terrence BrennanPRC-F131972.377.1771

Marketing incorporates professional education courses to prepare individuals for career paths with retail or wholesale organizations, profit or non-profit service organizations, governmental agencies, and academic institutions.

Collin's Marketing program is designed to give a thorough background in aspects of marketing and to provide methods for improving skills for people already employed in a marketing career. Marketing students who have questions should visit with the department chair.

Students planning to transfer to a college or university should check with the Collin academic advisor prior to beginning this program to verify course transferability.

Career Opportunities

Marketing provides the essential core of marketing practices and prepares students for positions in:

- Advertising
- Consulting
- Customer Service
- Directing
- E-Commerce
- Industrial Marketing Management
- International Marketing
- Marketing Management
- Promotion
- Retailing
- Sales
- Sales Management
- Wholesaling

AAS – Marketing

61 credit hours

FIRST YEAR

First Semester

BMGT 1341	Business Ethics
ENGL 1301	Composition/Rhetoric I ¹
MATH 1332	Contemporary Mathematics ²
MRKG 1311	Principles of Marketing ³
SPCH 1311	Fundamentals of Speech Communication ⁴

Second Semester

ACCT 2301	Financial Accounting
HUMA 1301	Introduction to the Humanities ⁵
MRKG 2333	Principles of Selling
MRKG 2349	Advertising and Sales Promotion
PHED/DANC	Any activity course ⁶
PSYC 2302	Applied Psychology ⁷

SECOND YEAR

First Semester

BMGT 1305	Communications in Management
BMGT 1396	Special Topics in General Retailing Operations
BUSG 2309	Small Business Management
COSC 1300	Computer Essentials
IBUS 1354	International Marketing Management

Second Semester

ECON 1301	Introduction to Economics ⁸
MRKG 1301	Customer Relations
MRKG 1302	Principles of Retailing ³
MRKG 2348	Marketing Research and Strategies (Capstone)
MRKG 2381	Cooperative Education – Marketing/Marketing Management, General ⁹

Note: May substitute BUSG 1315, BUSG 1341, IBUS 2335, or IBUS 2341 for any BMGT, BUSG, IBUS, or MRKG course, except for Capstone course

- 1 May substitute ENGL 1302
- 2 May substitute MATH 1324 or MATH 1314 (recommended for transfer students)
- 3 Tech Prep course which may have been completed in high school
- 4 May substitute SPCH 1315 or SPCH 1321
- 5 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
- 6 May substitute PHED 1338
- 7 May substitute ANTH 2351, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, or SOCI 1301
- 8 May substitute ECON 2301 or ECON 2302
- 9 May substitute BMGT 1344 or MRKG 1380 with consent of department chair

Marketing/Business Management Specialization

61 credit hours

FIRST YEAR

First Semester

BMGT 1303	Principles of Management
COSC 1300	Computer Essentials
ENGL 1301	Composition/Rhetoric I ¹
MRKG 1311	Principles of Marketing ²
SPCH 1311	Fundamentals of Speech Communication ³

Second Semester

BMGT 1344	Negotiations and Conflict Management
BMGT 2310	Financial Management ⁴
HUMA 1301	Introduction to the Humanities ⁵
MRKG 1301	Customer Relations
MRKG 1302	Principles of Retailing ²
PHED/DANC	Any activity course ⁶

SECOND YEAR

First Semester

BMGT 2309	Leadership
MATH 1332	Contemporary Mathematics ⁷
MRKG 2333	Principles of Selling
MRKG 2348	Marketing Research and Strategies
PSYC 2302	Applied Psychology ⁸

Second Semester

BMGT 1305	Communications in Management
BMGT 1341	Business Ethics
BMGT 2341	Strategic Management (Capstone)
ECON 1301	Introduction to Economics ⁹
MRKG 2349	Advertising and Sales Promotion

NOTE: The second digit in a course number indicates the number of credit hours for that course.

Note: May substitute BMGT 1342, BMGT 1343, IBUS 2335, IBUS 2341, HRPO 1306, or LGLA 2337 for any BMGT or MRKG course, except for Capstone course

- 1 May substitute ENGL 1302
- 2 Tech Prep course which may have been completed in high school
- 3 May substitute SPCH 1315 or SPCH 1321
- 4 May substitute ACCT 2301
- 5 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
- 6 May substitute PHED 1338
- 7 May substitute MATH 1324 or MATH 1314 (recommended for transfer students)
- 8 May substitute ANTH 2351, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, or SOCI 1301
- 9 May substitute ECON 2301 or ECON 2302

Certificate

International Business Certificate

18 credit hours

First Semester

IBUS 1354 International Marketing Management
 MRKG 1311 Principles of Marketing
 MRKG 2348 Marketing Research and Strategies

Second Semester

IBUS 2335 International Business Law
 IBUS 2341 Intercultural Management (Capstone)
SPCH 1311 Fundamentals of Speech Communication

Marketing Certificate

18 credit hours

First Semester

MRKG 1311 Principles of Marketing¹
 MRKG 2333 Principles of Selling
 MRKG 2349 Advertising and Sales Promotion

Second Semester

MRKG 1301 Customer Relations²
 MRKG 1302 Principles of Retailing¹
 MRKG 2348 Marketing Research and Strategies (Capstone)

- 1 Tech Prep course which may have been completed in high school
- 2 May substitute BUSG 2309

Small Business Management Specialization

15 credit hours

First Semester

BUSG 1315 Small Business Operations
 BUSG 1341 Small Business Financing

Second Semester

BUSG 2309 Small Business Management (Capstone)
 MRKG 1301 Customer Relations
 MRKG 2333 Principles of Selling

Marketable Skills Achievement Award

MSAA – Small Business Management

9 credit hours

BUSG 1315 Small Business Operations
 BUSG 1341 Small Business Financing
 BUSG 2309 Small Business Management

MUSIC, COMMERCIAL

Also see Music, page 60.

Department Chair:

Casey McClureSCC-B117972.516.5041

Academic Advisor:

Todd FieldsSCC-G139972.881.5903

Collin's Commercial Music program provides career training in performance, audio engineering and sound reinforcement, electronic music, and composition/songwriting. Internship opportunities are available through the Cooperative Work Experience program for practical training in the field.

Many Collin graduates perform professionally or work in recording studios, tape duplication and editing facilities, or sound reinforcement companies.

Students planning to transfer to a college or university should check with the Collin academic advisor prior to beginning this program to verify course transferability.

Career Opportunities

The Commercial Music program prepares students for positions in:

- Audio Duplication/Manufacturing
- Audio Engineering
- Digital Audio Editing
- Instrumental/Vocal Arranging
- Jingle Composition
- Music Marketing
- Music Transcribing
- Performance
- Studio Management
- Synthesizer Programming

AAS–Commercial Music

64 credit hours

FIRST YEAR

First Semester

ARTC	1325	Introduction to Computer Graphics – Print
MUSB	1305	Survey of the Music Business
MUSC	1327	Audio Engineering I~
MUSC	2427	Audio Engineering II~
MUSI	1301	Music Fundamentals

Second Semester

MUSI	1116	Aural Skills I ¹
MUSI	1311	Music Theory I ¹
SPCH	1311	<i>Fundamentals of Speech Communication</i> ²
Elective**		
Elective**		

SECOND YEAR

First Semester

ENGL	1301	<i>Composition/Rhetoric I</i> ³
MATH	1314	<i>College Algebra</i>
MUSC	1171	Commercial Class Piano I ⁴
MUSC	1323	Audio Electronics
MUSC	1331	MIDI I
Elective**		

Second Semester

MUSB	2380	Cooperative Education – Music Management and Merchandising (Capstone)
MUSC	1172	Commercial Class Piano II ⁵
MUSC	1405	Live Sound I
MUSC	2355	MIDI II
MUSI	1307	<i>Introduction to Music Literature</i> ⁶
PHED/DANC		<i>Any activity course</i> ⁶
PSYC	2301	<i>General Psychology</i> ⁷

~ Taught in eight-week format

- 1 Required to fulfill the core requirement in Fine Arts for Music, Commercial majors
- 2 May substitute SPCH 1315 or SPCH 1321
- 3 May substitute ENGL 1302
- 4 May substitute MUSI 1181, departmental permission required
- 5 May substitute MUSI 1182, departmental permission required
- 6 May substitute PHED 1338
- 7 May substitute ANTH 2351, ECON 1301, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2302, or SOCI 1301

** Suggested electives: (10 credit hours) Any MUAP courses (maximum of 8 credit hours), any MUEN courses (maximum of 4 credit hours), MUSB 1301, MUSB 2301, MUSC 1209, MUSC 1303, MUSC 1321, MUSC 1330, MUSC 1333, MUSC 2314, MUSC 2330, MUSC 2345, MUSC 2351, MUSC 2447, MUSC 2448, MUSI 1117, MUSI 1183,

MUSI 1184, MUSI 1192, MUSI 1193, MUSI 1312, MUSI 1386, MUSI 2116, MUSI 2117, MUSI 2181, MUSI 2182, MUSI 2192, MUSI 2193, MUSI 2311, or MUSI 2312

Certificate

Audio Engineering Certificate

31 credit hours

FIRST YEAR

First Semester

MUSB	1305	Survey of the Music Business
MUSC	1323	Audio Electronics
MUSC	1327	Audio Engineering I~
MUSC	1331	MIDI I
MUSC	2427	Audio Engineering II~

Second Semester

MUSB	2301	Music Marketing and Merchandising
MUSC	1405	Live Sound I
MUSC	2447	Audio Engineering III~
MUSC	2448	Audio Engineering IV~(Capstone)

~ Taught in eight-week format

NURSING

Program Director:

Nell Ard, Ph.D., CNS, RNC .CPC-E310972.548.6883

Academic Advisor:

Lynne MeyerCPC-A108B972.548.6778

Collin's Associate Degree Nursing (ADN) Program prepares students to make application to the Board of Nurse Examiners for licensure as a registered nurse. The nursing curriculum is approved by the Board of Nurse Examiners for the State of Texas and accredited by the National League for Nursing Accrediting Commission (NLNAC). Students must meet eligibility requirements for licensure as established by the Board of Nurse Examiners for the State of Texas. If an individual has reason to believe he/she is ineligible for licensure, he/she may petition the Board for a declaratory order. This should be done prior to entering the program. Contact the program director for further information.

The course of study consists of approved nursing courses from the Workforce Education Course Manual of Texas. These courses must be taken in sequence to assure progression of content from simple to complex.

Collin County healthcare facilities enthusiastically support the ADN program. Several healthcare facilities throughout the Metroplex are used for the clinical experience. The role of the nurse continues to change in an evolving healthcare system.

Students planning to transfer to a college or university should check with the Collin academic advisor prior to beginning this program to verify course transferability.

NOTE: The second digit in a course number indicates the number of credit hours for that course.

For students interested in transferring to a BSN program, please see the AA–Nursing Field of Study on page 61.

Accreditation

The National League for Nursing Accrediting Commission has granted continued re-accreditation to the Nursing program for eight years. They may be contacted at:

61 Broadway
New York, NY 10006
212.363.5555, extension 153

Scholarships

Various scholarships are available to students when they have been accepted into the Nursing program. Most scholarships are awarded based on financial need. Other types of monetary support are available through the college's Financial Aid Office.

Additional Admissions Requirements

- Complete pre-entrance course requirements with a minimum 2.5 GPA.
- Earn a GPA of 2.5 or greater on all courses applicable to the Nursing program.
- Submit official copies of all college transcripts.
- Complete the PSB (Nursing School Aptitude Exam) prior to the January 31 or July 31 deadline with a satisfactory result.
- Successful completion of drug screen, background check, and physical/mental competencies.
- Completion of immunizations required by the Texas Department of Health (TDH)*

* *It is important to note that one of the required vaccinations, Hepatitis B, consists of a three dose series, which can take up to 7 months to complete. Individuals unable to receive the HBV must inform the program director. In such cases the applicant must sign a declination form. All immunizations must be complete before the first clinical visit.*

Admission to the Nursing program is selective. Admission to the college does not guarantee admission to the Nursing program. Registration is by permission only. Information and applications may be obtained from the program director or the Social Sciences, Health, and Public Services Office.

Placement in mathematics and English courses is based upon the results of each student's assessments and subjects completed before admission.

Pre-Nursing Work Experience (RNSG 1266)

This optional work-based course is available to provide exposure to the nursing field. Although it is not a prerequisite for entry into the AAS in Nursing program, and the credit earned (2 credit hours) is not part of the AAS in Nursing program, passing this course does

result in eligibility to test for a Nurse Assistant Certificate and valuable work experience. RNSG 1266 does require the same immunizations as the Nursing Program.

AAS – Nursing

71 credit hours

Prerequisites:

BIOL 2401 Anatomy and Physiology I
BIOL 2402 Anatomy and Physiology II
BIOL 2421 Microbiology
MATH 1342 Statistics

FIRST YEAR

First Semester

ENGL 1301 *Composition/Rhetoric I*¹
PSYC 2301 *General Psychology*
RNSG 1219 Integrated Nursing Skills I
RNSG 1360 Clinical I – Nursing – Registered Nurse Training
RNSG 1523 Introduction to Professional Nursing for Integrated Programs

Second Semester

PSYC 2314 Life Span Psychology
RNSG 1229 Integrated Nursing Skills II
RNSG 1361 Clinical II – Nursing – Registered Nurse Training
RNSG 2504 Integrated Care of the Client with Common Health Care Needs

SECOND YEAR

First Semester

RNSG 2460 Clinical III – Nursing – Registered Nurse Training
RNSG 2514 Integrated Care of the Client with Complex Health Care Needs

SOCI 1301 *Introduction to Sociology*²

Second Semester

HUMA 1301 *Introduction to the Humanities*³
RNSG 2207 Transition to Nursing Practice (Capstone)
RNSG 2535 Integrated Client Care Management
RNSG 2561 Clinical IV – Nursing (RN Training)

1 May substitute ENGL 1302

2 May substitute SOCI 1306

3 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322

Note: The communication competency is being met throughout the degree.

Note: For those students considering completion of their BSN degree, the following additional courses are recommended:

- BIOL 1322 General Nutrition
- CHEM 1405 Introduction to Chemistry I
- or –
- CHEM 1411 General Chemistry I

OFFICE SYSTEMS TECHNOLOGY

Also a Tech Prep Program

Also a Marketable Skills Achievement Award Program

Department Chair:

George JacksonPRC-H118972.377.1613

Office Systems Technology:

Mary Jane TobabenSCC-J116972.881.5170

Terri McKeeverSCC-J115972-516-5088

Medical Office Support:

Linda ThompsonCPC-A200B972.548.6815

Academic Advisor:

Al GoberPRC-F134972.377.1780

The Office Systems Technology program is designed to incorporate both the technical and behavioral aspects of careers in the general, legal, or medical fields. Areas of study include: office keyboarding skills; word processing; proofreading/editing; records management; transcription; financial responsibilities; business correspondence and communications; database, presentation, and spreadsheet software; office management; legal document production; legal transcription; medical records management; medical coding/billing; and medical transcription.

Some of the courses required for this AAS degree are also excellent preparation for the experienced secretary who plans to take the Certified Professional Secretary exam. The secretary who has already passed the CPS exam may apply for academic credit from Collin to be applied toward the AAS degree in Office Systems Technology.

Tech Prep students who took collegiate-level courses in Office Systems Technology while in high school may elect to receive college credit by contacting a Collin academic advisor. A petition for Tech Prep credit should be completed as soon as possible upon admission to Collin.

Students planning to transfer to a college or university should check with the Collin academic advisor prior to beginning this program to verify course transferability.

Career Opportunities

Job opportunities in the Office Systems Technology field include:

- Accounting Clerk
- Administrative Assistant/Secretary
- Human Resources Assistant
- Legal Office Support
- Medical Coding and Billing Specialist
- Medical Insurance Claims Support

- Medical Office Support
- Medical Transcriptionist
- Receptionist
- Virtual Office Assistant
- Word Processing Specialist

AAS – Office Systems Technology

60 credit hours

FIRST YEAR

First Semester

COSC 1300 Computer Essentials

ENGL 1301 Composition/Rhetoric I¹

POFT 1307 Proofreading and Editing*

POFT 1319 Records and Information Management I*

POFT 2301 Document Formatting and Skillbuilding*

Second Semester

ACNT 1303 Introduction to Accounting I^{2,*}

ECON 1301 Introduction to Economics³

MATH 1332 Contemporary Mathematics⁴

PHED/DANC Any activity course⁵

POFI 2301 Word Processing – MS Word*

POFT 2203 Speed and Accuracy Building*

Summer

HUMA 1301 Introduction to the Humanities⁶

Elective**

SECOND YEAR

First Semester

ITSC 1309 Integrated Software Applications I – MS Office^{3,*}

POFT 2312 Business Correspondence and Communication*

Elective**

Elective**

Second Semester

POFT 1349 Administrative Office Procedures II (Capstone)*

SPCH 1311 Fundamentals of Speech Communication⁷

Elective**

Elective**

- 1 May substitute ENGL 1302
- 2 Tech prep course which may have been completed in high school
- 3 May substitute ANTH 2351, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301
- 4 May substitute MATH 1324 or MATH 1314
- 5 May substitute PHED 1338
- 6 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322

NOTE: The second digit in a course number indicates the number of credit hours for that course.

- 7 May substitute SPCH 1315 or SPCH 1321
- * Prerequisite: POFT 1329¹ or a keyboarding course taken in high school
- ** Electives (15 hours): BMGT 2309, ITSW 1304*, ITSW 1307*, LGLA 1307, LGLA 2333, POFI 1301¹*, POFI 2331*, POFL 1359*, POFL 1380*, POFM 1321, POFM 1331*, POFM 1353*, POFM 1380*, POFT 1380*, POFT 2380*, or SRGT 1301

Certificates

Office Systems Technology Certificate

26 credit hours

First Semester

- POFI 2301 Word Processing – MS Word*
- POFT 1307 Proofreading and Editing*
- POFT 1319 Records and Information Management I*
- POFT 2203 Speed and Accuracy Building*
- POFT 2301 Document Formatting and Skillbuilding*

Second Semester

- ITSC 1309 Integrated Software Applications I – MS Office¹, *
- POFT 1349 Administrative Office Procedures II (Capstone)*
- POFT 2312 Business Correspondence and Communication*
- Elective **

- ¹ Tech prep course which may have been completed in high school
- * Prerequisite: POFT 1329¹ or a keyboarding course taken in high school
- ** Electives (3 credit hours): ACNT 13031,*, POFI 2331, or POFT 1380

Legal Office Support Specialization

32 credit hours

First Semester

- LGLA 1307 Introduction to Law and the Legal Profession
- POFI 1301 Computer Applications I – MS Word Productivity¹, *
- POFT 1307 Proofreading and Editing*
- POFT 1319 Records and Information Management I*
- POFT 2203 Speed and Accuracy Building*
- POFT 2301 Document Formatting and Skillbuilding*

Second Semester

- ITSC 1309 Integrated Software Applications I – MS Office¹, *
- LGLA 2333 Advanced Legal Document Preparation*
- POFL 1359 Legal Transcription*
- POFT 1349 Administrative Office Procedures II (Capstone)*
- Elective**

- ¹ Tech prep course which may have been completed in high school
- * Prerequisite: POFT 1329¹ or a keyboarding course taken in high school
- ** Electives (3 credit hours): ITSW 1304*, ITSW 1307*, POFI 2301*, POFI 2331*, POFL 1380*, or POFT 2312*

Medical Coding and Billing Specialization

30 credit hours

First Semester

- HPRS 2300 Pharmacology for Health Professions
- POFM 1321 Medical Law and Ethics for Office Personnel
- POFM 1353 Medical Coding
- SRGT 1301 Medical Terminology I

Second Semester

- BIOL 2404 Human Anatomy and Physiology Basics
- HITT 2346 Advanced Medical Coding
- HPRS 2301 Pathophysiology
- MDCA 1343 Medical Insurance/Billing

Summer

- HITT 1266 Practicum – Health Information/Medical Records Technology/Technician (Capstone)¹
- HITT 1371 Certification – Physician Coding Exam Review

- ¹ May substitute HITT 1280

Medical Office Support Specialization

38 credit hours

First Semester

- POFI 1301 Computer Applications I – MS Word Productivity¹,*
- POFT 1307 Proofreading and Editing*
- POFT 2203 Speed and Accuracy Building*
- POFT 2301 Document Formatting and Skillbuilding*
- SRGT 1301 Medical Terminology I

Second Semester

- ITSC 1309 Integrated Software Applications I – MS Office¹,*
- MDCA 1343 Medical Insurance/Billing
- POFM 1331 Medical Transcription I*
- POFM 1353 Medical Coding

Summer

- POFM 1321 Medical Law and Ethics for Office Personnel
- POFT 1319 Records and Information Management*
- POFT 1349 Administrative Office Procedures II (Capstone)*
- POFT 2312 Business Correspondence and Communication*

- ¹ Tech Prep course which may have been completed in high school
- * Prerequisite: POFT 1329¹ or a keyboarding class taken in high school

Medical Transcription Specialization

38 credit hours

First Semester

- POFI 1301 Computer Applications I – MS Word Productivity¹, *
- POFM 1331 Medical Transcription I*
- POFT 1307 Proofreading and Editing*
- POFT 2203 Speed and Accuracy Building*
- SRGT 1301 Medical Terminology I

Second Semester

BIOL	2404	Human Anatomy and Physiology Basics
HPRS	2301	Pathophysiology
POFM	2313	Medical Transcription II*
POFT	2301	Document Formatting and Skillbuilding*

Summer

HPRS	2300	Pharmacology for Health Professions
POFM	1321	Medical Law and Ethics for Office Personnel
POFM	2317	Medical Transcription III*
MRMT	1267	Practicum – Medical Transcription/Transcriptionist (Capstone) ² *

1 Tech prep course which may have been completed in high school

2 May substitute MRMT 1282*

* Prerequisite: POFT 1329¹ or a keyboarding class taken in high school

Marketable Skills Achievement Award

MSAA – Office Systems Technology

12 credit hours

ITSC	1309	Integrated Software Applications I
POFI	2301	Word Processing
POFT	1319	Records and Information Management I
POFT	2301	Document Formatting and Skillbuilding

PARALEGAL/LEGAL ASSISTANT

Also see Associate of Arts – Paralegal/Legal Assistant, page 61

Department Chair:

Tom HudginsSCC-G225972.516.5060

Academic Advisor:

Al GoberPRC-F134972.377.1780

Law firms, corporations, and governmental agencies hire paralegals/legal assistants to manage an array of legal responsibilities under the direction and supervision of a licensed attorney. Paralegals must be proficient in computer skills, legal terminology, and legal procedures. The AAS degree in Paralegal/Legal Assistant provides excellent training in these areas and offers opportunities for specialization.

Texas Woman’s University (TWU) and Collin Paralegal/Legal Assistant programs entered an articulation agreement effective fall 1999, which establishes a plan for students to obtain an AAS degree from Collin and a Bachelor of Science in Government – Legal Studies Emphasis degree from TWU. A similar articulation agreement, effective fall 2004, has been established with Texas A&M University – Commerce for the Bachelor of Arts/Science in Political Science with Emphasis in Paralegal Studies degree.

Students planning to transfer to a college or university should check with the Collin academic advisor prior to beginning this program to verify course transferability.

Career Opportunities

Employment opportunities for entry-level paralegals/legal assistants include the following:

- Law Firms
- Corporations
- Governmental agencies

Responsibilities routinely performed by paralegals/legal assistants include:

- Drafting legal documents
- Performing legal research
- Obtaining information relevant to cases
- Interviewing clients and witnesses
- Assisting with trial preparation

AAS – Paralegal/Legal Assistant

63 credit hours

FIRST YEAR

First Semester

COSC	1300	Computer Essentials
ENGL	1301	Composition/Rhetoric I
LGLA	1307	Introduction to Law and the Legal Professions
MATH	1332	Contemporary Mathematics ¹
		Elective*

Second Semester

ECON	1301	Introduction to Economics ²
ENGL	1302	Composition/Rhetoric II
LGLA	1303	Legal Research
PHED/DANC		Any activity course ³
PSYC	2302	Applied Psychology ⁴
		Elective**

SECOND YEAR

First Semester

LGLA	1346	Civil Litigation I
LGLA	1355	Family Law
LGLA	2303	Torts and Personal Injury Law
LGLA	2307	Law Office Management
SPCH	1311	Fundamentals of Speech Communication ⁶

Second Semester

LGLA	1353	Wills, Trusts, and Probate Administration
LGLA	2239	Certified Legal Assistant Review (Capstone) ⁷
		Elective***
		Elective***
		Elective***

1 May substitute MATH 1324 or MATH 1314 (recommended for transfer students)

NOTE: The second digit in a course number indicates the number of credit hours for that course.

- 2 May substitute ECON 2301 or ECON 2302
 - 3 May substitute PHED 1338
 - 4 May substitute ANTH 2351, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, or SOCI 1301
 - 5 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
 - 6 May substitute SPCH 1315 or SPCH 1321
 - 7 Successful completion of the AAS Paralegal/Legal Assistant program meets the current eligibility requirements needed to qualify to take the Certified Legal Assistant Examination; however, additional education or professional experience may be required in the future.
 - * Elective (3 credit hours): POFI 1301 or POFI 2301
 - ** Open Elective (3 credit hours)
 - *** Electives (9 credit hours): BUSI 2301, CRIJ 1306, CRIJ 1310, LGLA 1305, LGLA 1347, LGLA 1380, LGLA 2333, or RELE 1311
- Note: No substitutions permitted, unless specified.*

Certificate

Paralegal General Certificate

29 credit hours

First Semester

LGLA 1303	Legal Research
LGLA 1307	Introduction to Law and the Legal Professions
LGLA 1346	Civil Litigation I
LGLA 2307	Law Office Management
*Elective	Technology Elective

Second Semester

LGLA 1353	Wills, Trusts, and Probate Administration
LGLA 1355	Family Law
LGLA 2239	Certified Legal Assistant Review (Capstone) ¹
LGLA 2303	Torts and Personal Injury Law
**Elective	Law Elective

- 1 Successful completion of the Paralegal Certificate program does not, in and of itself, qualify a student to take the Certified Legal Assistant Examination. Additional education or professional experience may be required.
 - * Electives (3 credit hours): COSC 1300, POFI 1301 or POFI 2301
 - ** Electives (3 credit hours): BUSI 2301, CRIJ 1306, CRIJ 1310, LGLA 1305, LGLA 1347, LGLA 1380, LGLA 2333, or RELE 1311
- Note: No substitutions permitted*

REAL ESTATE

Department Chair:

Mary MilfordCYC-B325972.985.3709

Academic Advisor:

Al GoberPRC-F134972.377.1780

Real Estate is a dynamic field in which highly motivated men and women can and do create their own success stories. The degree program in Real Estate is designed with flexibility to allow students to successfully achieve a goal, whether it be personal knowledge, receipt of a degree, completion of a certificate program, transfer to a college or university, or real estate licensure.

Students will explore a variety of topics including fundamentals and principles of real estate; sources of financing; state and federal influences on financing; legal rights of owners, buyers, and brokers; property appraisal; contract negotiations; and closing. An excellent instructional staff and a cooperative education program with local brokers give real estate students at Collin a personalized, practical, high quality educational experience.

Students planning to transfer to a college or university should check with the Collin academic advisor prior to beginning this program to verify course transferability.

Career Opportunities

The study of real estate can be the beginning of an interesting and profitable career. Real estate is a vast and complex industry, and career options are numerous. Some of the possibilities include:

- Appraisal
- Brokerage
- Counseling
- Education
- Finance
- Property Development
- Property Management

AAS – Real Estate

62 credit hours

FIRST YEAR

First Semester

COSC 1300	Computer Essentials
<i>ENGL 1301</i>	<i>Composition/Rhetoric I</i>
<i>MATH 1332</i>	<i>Contemporary Mathematics¹</i>
<i>PHED/DANC</i>	<i>Any activity course²</i>
RELE 1301	Principles of Real Estate I
RELE 2301	Law of Agency

Second Semester

ENGL 1302	Composition/Rhetoric II
POFT 1127	Introduction to Keyboarding
RELE 1311	Law of Contracts
RELE 1325	Real Estate Mathematics

NOTE: Italicized course numbers and titles denote AAS Core Curriculum.

RELE 2309 Principles of Real Estate II
 SPCH 1311 Fundamentals of Speech Communication³

SECOND YEAR

First Semester

BUSI 1301 Introduction to Business
 ECON 1301 Introduction to Economics⁴
 PSYC 2302 Applied Psychology⁵
 RELE 1321 Real Estate Marketing
 Elective*

Second Semester

HUMA 1301 Introduction to the Humanities⁶
 RELE 1319 Real Estate Finance
 RELE 2381 Cooperative Education – Real Estate (Capstone)
 Elective*
 Elective*

- 1 May substitute MATH 1324 or MATH 1314 (recommended for transfer students)
- 2 May substitute PHED 1338
- 3 May substitute SPCH 1315 or SPCH 1321
- 4 May substitute ECON 2301 or ECON 2302
- 5 May substitute ANTH 2351, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, or SOCI 1301
- 6 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322

- * Electives (9 credit hours):
- A minimum of 3 hours must be taken from the following courses: RELE 1303, RELE 1307, RELE 1309, RELE 1315, RELE 1327, or RELE 2331.
 - The other 6 hours may be taken from the remaining courses listed above and/or the following: ACCT 2301, BMGT 1303, BUSG 2309, BUSI 2301, HRPO 1305, ITSW 1304, MRKG 1302, RELE 1105, RELE 1380, or RELE 2103.

Certificates

Real Estate Brokers Certificate

24 credit hours

First Semester

RELE 1301 Principles of Real Estate I
 RELE 1311 Law of Contracts
 RELE 2301 Law of Agency
 RELE 2309 Principles of Real Estate II

Second Semester

RELE 1319 Real Estate Finance
 RELE 1321 Real Estate Marketing
 Elective*
 Elective*

- * Electives (6 credit hours): RELE 1105, RELE 1303, RELE 1307, RELE 1309, RELE 1315, RELE 1327, RELE 1380, RELE 2103, RELE 2331, or RELE 2381, TREC-approved accredited college-related courses, or other coursework approved by the department chair

Note: This certificate provides eligibility for a credentialing exam.

Real Estate General Certificate

15 credit hours

First Semester

RELE 1301 Principles of Real Estate I
 RELE 2301 Law of Agency
 RELE 2309 Principles of Real Estate II

Second Semester

Elective*
 Elective*

- * Electives (6 credit hours): RELE 1105, RELE 1303, RELE 1307, RELE 1309, RELE 1311, RELE 1315, RELE 1319, RELE 1321, RELE 1325, RELE 1327, RELE 1380, RELE 2103, RELE 2331, or RELE 2381, TREC-approved accredited college-related courses, or other coursework approved by department chair

Note: This certificate provides eligibility for a credentialing exam.

RESPIRATORY CARE

Program Director:

David R. GibsonCPC-E306972.548.6870

Academic Advisor:

Tori HoffmanCPC-A108C972.548.6779

Collin's Respiratory Care program prepares individuals for an allied health specialty in clinical care and management of respiratory disorders. The 22-month program graduates students with an AAS degree and qualifies the individual to apply for the Registered Respiratory Therapist board examination.

Respiratory Care courses as well as mathematics or other science courses transferred from regionally accredited programs may not exceed five years of age. The minimum passing grade for all respiratory care lecture, lab, and clinical course work is 75 percent.

Students planning to transfer to a college or university should check with the Collin academic advisor prior to beginning this program to verify course transferability.

Career Opportunities

Career opportunities in the health care industry for registered respiratory therapists are increasing rapidly. Recent surveys indicate

that the supply of trained respiratory care professionals has not been sufficient to meet the progressive growth in demand.

Additional Admission Requirements

- Provide proof of high school graduation or GED
- Submit official copies of all college transcripts
- Complete Collin reading, writing and mathematics assessments
- Complete Psychological Services Bureau (PSB), Health Occupations Aptitude Exam
- Completion of immunizations required by the Texas Department of Health (TDH)*

* *It is important to note that one of the required vaccinations, Hepatitis B, consists of a three dose series, which can take up to 7 months to complete. Individuals unable to receive the HBV must inform the program director. In such cases the applicant must sign a declination form. All immunizations must be complete before the first clinical visit.*

Registration is by permission only. Information and applications may be obtained on-line at www.ccccd.edu/rep or the Social Sciences, Health, and Public Services Office.

Program Completion Requirements

In addition to completion of all respiratory care course work, students are required to complete comprehensive CRT and RRT Self Assessment Examinations. CRT Self Assessment exam will be given in the fall semester of the SECOND YEAR. The RRT Self Assessment exam will be given in the spring semester of the SECOND YEAR. Satisfactory completion of these exams is required for graduation from the program.

Complete the written and skills exam in RSPT 2139 according to the standards set by the American Heart Association.

Transition Program

The college offers a transition program to allow students who hold a CRT credential and have one year of experience to receive their degree and become registry-eligible. Contact the department chair for more information.

AAS – Respiratory Care

72 credit hours

Pre-Entrance Requirements

- Student must be prepared to take BIOL 2401 (Anatomy and Physiology) by meeting one of the following requirements:
 - Completion of two years of high school biology within the last five years, or
 - Completion of BIOL 1406 (General Biology).
- Student must be prepared to enter college-level mathematics by either completion of MATH 0310 or by math placement at college algebra level.

FIRST YEAR

First Semester

BIOL	2401	Anatomy and Physiology I
RSPT	1160	Clinical I – Respiratory Care Therapy/Therapist
RSPT	1201	Introduction to Respiratory Care
RSPT	1307	Cardiopulmonary Anatomy and Physiology
RSPT	1410	Respiratory Care Procedures I

Second Semester

BIOL	2402	Anatomy and Physiology II
RSPT	1317	Respiratory Care Pharmacology
RSPT	1361	Clinical II – Respiratory Care Therapy/Therapist
RSPT	1411	Respiratory Care Procedures II
RSPT	2310	Cardiopulmonary Disease

Summer

RSPT	1362	Clinical III – Respiratory Care Therapy/Therapist
RSPT	1471	Respiratory Care Procedures III

SECOND YEAR

First Semester

<i>MATH</i>	1314	<i>College Algebra¹</i>
<i>PSYC</i>	2301	<i>General Psychology²</i>
RSPT	2355	Critical Care Monitoring
RSPT	2360	Clinical IV – Respiratory Care Therapy/Therapist
RSPT	2453	Neonatal/Pediatric Cardiopulmonary Care

Second Semester

BIOL	2421	Microbiology
<i>ENGL</i>	1301	<i>Composition/Rhetoric³</i>
<i>HUMA</i>	1301	<i>Introduction to the Humanities⁴</i>
RSPT	2139	Advanced Cardiac Life Support
RSPT	2231	Clinical Simulations in Respiratory Care
RSPT	2247	Specialties in Respiratory Care
RSPT	2361	Clinical V – Respiratory Care Therapy/Therapist (Capstone)

- 1 May substitute a higher-level mathematics course
 - 2 May substitute PSYC 2302 or SOCI 1301
 - 3 May substitute ENGL 1302
 - 4 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
- Note: The communication competency is being met throughout the degree.*

SEMICONDUCTOR MANUFACTURING TECHNOLOGY

Department Chair:

Wayne JonesPRC-H230A972.377.1676

Academic Advisor:

Terrence BrennanPRC-F131972.377.1771

NOTE: Italicized course numbers and titles denote AAS Core Curriculum.

Semiconductor manufacturing consists of a series of complex processes by which miniaturized electrical devices or microchips are created for electronic equipment. Students in this program will receive instruction in related academic subjects, safety procedures, statistical process control techniques, and the operation of machinery and equipment for the fabrication and processing of semiconductors.

Collin's Semiconductor Manufacturing Technology program is a joint workforce education program with Richland College. The AAS degree program prepares students for employment as semiconductor equipment technicians. As an alternative, students may complete the 38-credit hour certificate program that certifies them for employment as a semiconductor equipment operator.

Students planning to transfer to a college or university should check with the Collin academic advisor prior to beginning this program to verify course transferability.

Career Opportunities

Students successfully completing the Semiconductor Manufacturing Technology program will be prepared for employment in the following career areas:

- Manufacturing
- Equipment Technician
- Integrated Circuit Test Technician
- Clean Room Technician

AAS – Semiconductor Manufacturing Technology

68 credit hours

FIRST YEAR

First Semester

CETT	1403	DC Circuits ¹
CETT	1425	Digital Fundamentals ¹
ENGL	1301	Composition/Rhetoric I
ENGR	1201	Introduction to Engineering
MATH	1314	College Algebra

Second Semester

CETT	1405	AC Circuits ¹
DFTG	1309	Basic Computer-Aided Drafting ¹
MATH	1316	Trigonometry
PHYS	1401	General Physics I

Summer

ECON	1301	Introduction to Economics ³
SPCH	1311	Fundamentals of Speech Communication ⁴

SECOND YEAR

First Semester

CETT	1380	Cooperative Education – Computer Engineering Technology/Technician
CETT	1429	Solid State Devices ¹
ELMT	2437	Electronic Troubleshooting, Service, and Repair

HUMA 1301 Introduction to the Humanities⁵

PHED/DANC Any activity course⁶

SMFT 1343 Semiconductor Manufacturing Technology I

Second Semester

CETT	1457	Linear Integrated Circuits
ELMT	2435	Certified Electronics Technician Training (Capstone)
SMFT	2343	Semiconductor Manufacturing Technology II
		Elective*

- 1 Tech Prep course which may have been completed in high school
 - 2 May substitute ENGL 1302
 - 3 May substitute ANTH 2351, ECON 2301, ECON 2302, GOVT 2301, GOVT 2302, HIST 1301, HIST 1302, HIST 2301, PSYC 2301, PSYC 2302, or SOCI 1301
 - 4 May substitute SPCH 1315 or SPCH 1321
 - 5 May substitute ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, DRAM 2361, DRAM 2362, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2303, FREN 2304, MUSI 1306, MUSI 1307, PHIL 1301, PHIL 1304, PHIL 2306, PHIL 2307, SPAN 2321, or SPAN 2322
 - 6 May substitute PHED 1338
- * Elective (3 credit hours): Any CETT (excluding CETT 1325 and CETT 1409), CPMT, EECT, ELMT, ENGR, ENTC, INMT, INTC, LOTT, or SMFT course not listed above with approval of Department Chair

Certificate

Semiconductor Manufacturing Operator Certificate

35 credit hours

First Semester

CETT	1403	DC Circuits ¹
CETT	1425	Digital Fundamentals ¹
CETT	1429	Solid State Devices ¹
ENGR	1201	Introduction to Engineering
SMFT	1343	Semiconductor Manufacturing Technology I

Second Semester

CETT	1380	Cooperative Education – Computer Engineering Technology/Technician
CETT	1405	AC Circuits ¹
ELMT	2435	Certified Electronics Technician Training (Capstone)
ELMT	2437	Electronic Troubleshooting, Service, and Repair
SMFT	2343	Semiconductor Manufacturing Technology II

- 1 Tech Prep course which may have been completed in high school

TELECOMMUNICATIONS TECHNOLOGY

Now listed as Convergence Technology on page 94

NOTE: The second digit in a course number indicates the number of credit hours for that course.

COURSE

descriptions

a

ACCT 2301 Financial Accounting

Accumulation and use of accounting information in business, fundamental concepts and records, operating cycle, income measurement, and preparation and analysis of financial statements. Lab required. 3 credit hours.

ACCT 2302 Managerial Accounting

Uses of accounting data by business management, cost behavior analysis, control of manufacturing product costing, cost-volume-profit analysis, budgeting controls, standard costing, responsibility accounting, and capital budgeting. Lab required. Prerequisites: ACCT 2301 and either BCIS 1305 or COSC 1300. 3 credit hours.

ACNT 1303 Introduction to Accounting I

A study of analyzing, classifying, and recording business transactions in a manual and computerized environment. Emphasis on understanding the complete accounting cycle and preparing financial statements, bank reconciliations, and payroll. Prerequisite: POFT 1329 or a keyboarding class taken in high school. 3 credit hours. (W)

ACPE 0200 Study Skills

Explores various methods and techniques of improving study skills and habits, including time management, note taking, reading, communication, test preparation, test taking, problem-solving, and learning styles. 2 credit hours.

Note: May not be used to satisfy the requirements of an associate degree.

AERS 1105 The Air Force Today I

Introduces students to the U.S. Air Force and the Air Force Reserve Officer Training Corps (AFROTC); includes Officership, professionalism, military customs and courtesies, and officer opportunities and benefits; AFROTC cadets must register for Leadership Laboratory as it complements this course with followership experience. 1 credit hour.



AERS 1106 The Air Force Today II

Introduces students to the U.S. Air Force and the Air Force Reserve Officer Training Corps (AFROTC); includes Officership, professionalism, military customs and courtesies, and officer opportunities and benefits; AFROTC cadets must register for Leadership Laboratory as it complements this course with followership experience. 1 credit hour.

AERS 2103 The Development of Air Power I

Introduces students to the U.S. Air Force and the Air Force Reserve Officer Training Corps (AFROTC); includes Officership, professionalism, military customs and courtesies, and officer opportunities and benefits; AFROTC cadets must register for Leadership Laboratory as it complements this course with followership experience. 1 credit hour.

AERS 2104 The Development of Air Power II

Introduces students to the U.S. Air Force and the Air Force Reserve Officer Training Corps (AFROTC); includes Officership, professionalism, military customs and courtesies, and officer opportunities and benefits; AFROTC cadets must register for Leadership Laboratory as it complements this course with followership experience. 1 credit hour.

ANTH 2301 Physical Anthropology

Overview of human origins and cultural adaptations combining study of our nearest relatives, the chimpanzees, with analysis of reproductions of fossil bones. Unit concerning forensic anthropology explains how crimes can be solved from analysis of skeletal material; students work with replicas of human bone. Opportunity to participate in field trip to zoo. 3 credit hours.

Note: Students may take this course or ANTH 2302 for credit but not both.

ANTH 2302 Introduction to Archaeology

Study of famous archaeological sites and introduction to fundamentals of fieldwork methods and interpretation, including how to conduct a field excavation, hands-on work with artifacts, and work on an archaeological site. 3 credit hours.

Note: Students may take this course or ANTH 2301 for credit but not both.

ANTH 2346 General Anthropology

Study of human beings, their antecedents and related primates, and their cultural behavior and institutions. Introduces the major subfields: physical and cultural anthropology, archaeology, linguistics, and ethnology. 3 credit hours.

Note: Students may take this course or HUMA 2323 for credit but not both.

ANTH 2351 Cultural Anthropology

Utilization of the comparative method to examine the concepts of culture and society. The social and cultural beliefs and practices of

people of diverse ethnic backgrounds are investigated and compared. May include anthropological fieldwork. 3 credit hours.

ANTH 2389 Academic Co-op Anthropology

Integrates on-campus study with practical hands-on work experience in anthropology. In conjunction with class seminars, the student will set specific goals and objectives in the study of anthropology. Contact the Cooperative Work Experience Office. Prerequisite: Consent of instructor. 3 credit hours.

ARTC 1302 Digital Imaging I

Digital imaging using raster image editing and/or image creation software: scanning, resolution, file formats, output devices, color systems, and image-acquisitions. Lab required. Prerequisite: ARTC 1325. 3 credit hours. (W)

ARTC 1305 Basic Graphic Design

Graphic design with emphasis on the visual communication design process. Topics include basic terminology and graphic design principles. Lab required. Prerequisite: ARTC 2311. 3 credit hours. (W)

ARTC 1321 Illustration Techniques I

A study of illustration techniques in various media. Emphasis on creative interpretation and disciplined draftsmanship for visual communication of ideas. Lab required. Prerequisite: ARTS 1316. 3 credit hours. (W)

ARTC 1325 Introduction to Computer Graphics – Print

A survey of computer design concepts, terminology, processes, and procedures. Topics include computer graphics hardware, electronic images, electronic publishing, vector-based graphics, and interactive multimedia. Lab required. 3 credit hours. (W)

ARTC 1327 Typography

A study of letterforms and typographic concepts as elements of graphic communication. Emphasis on developing a current, practical typographic knowledge based on industry standards. Lab required. Prerequisite: ARTC 1353. 3 credit hours. (W)

ARTC 1341 3-D Animation I

Instruction in three-dimensional (3-D) modeling and rendering techniques including lighting, staging, camera, and special effects. Emphasis on 3-D modeling building blocks using primitives to create simple or complex objects. Lab required. Prerequisite: ARTC 1325. Corequisite: ARTV 1345. 3 credit hours. (W)

ARTC 1349 Art Direction I

Creation of projects in art direction for advertising graphic campaigns encompassing products, services, or ideas. Topics include all campaign procedures from initial research and creative strategy to final execution of a comprehensive project. Lab required. Prerequisite: ARTC 1305. 3 credit hours. (W)

ARTC 1353 Computer Illustration I

Mastery of the tools and transformation options of an industry-standard drawing program to create complex illustrations and follow them through to the color output stage. Includes acquisition of images through scanning and the creative use of clip art. Lab required. Prerequisite: ARTC 1325. 3 credit hours. (W)

ARTC 2311 History of Communication Graphics

Survey of the evolution of graphic arts in relation to the history of art. Includes formal, stylistic, social, political, economic, and historical aspects. Emphasis on art movements, schools of thought, individuals, and technology as they interrelate with graphic arts. Lab required. 3 credit hours. (W)

ARTC 2313 Digital Publishing II

Layout procedures from thumbnails and roughs to final comprehensive and printing; emphasis on design principles for the creation of advertising and publishing materials, and techniques for efficient planning and documenting projects. Lab required. Prerequisites: ARTC 1325 and ARTC 1327. 3 credit hours. (W)

ARTC 2331 Illustration Techniques III

Advanced study of illustration media and techniques using digital and/or traditional tools. Emphasis on conceptualization and composition. Lab required. Prerequisite: ARTC 1321. 3 credit hours. (W)

ARTC 2335 Portfolio Development for Graphic Design

Preparation of a portfolio comprised of completed graphic design projects. Evaluation and demonstration of portfolio presentation methods based on the student's specific area of study. Lab required. Prerequisite: Department chair approval. 3 credit hours. (W)

ARTC 2340 Computer Illustration II

Advanced use of software capabilities with emphasis on various output procedures, the resolution of complex design issues, and concept development. Lab required. Prerequisite: ARTC 1353. 3 credit hours. (W)

ARTC 2341 3-D Animation II

Skill development in three-dimensional modeling and rendering techniques using lighting, staging, and special effects for digital output. Emphasis on the production of three-dimensional (3-D) animation as final digital outputting using modeling, rendering, and animation software. Lab required. Prerequisite: ARTC 1341. 3 credit hours. (W)

ARTC 2345 Advanced 3-D Modeling and Rendering

A studio course focused on advanced 3-D modeling and rendering techniques using industry standard software: spline modeling, patch modeling, and other organic modeling techniques; learn advanced use of camera settings, lighting, and surfacing to create detailed

environments; cover advanced topics such as particle and volumetric effects, and setting up a model with weight maps, hierarchies, bones, and constraints. Lab required. Prerequisite: ARTV 1345. 3 credit hours. (W)

ARTC 2349 Art Direction II

Mastery of advanced art direction projects with emphasis on selected topics in advertising campaigns. Includes written, oral, and visual skills. Lab required. Prerequisite: ARTC 1349. 3 credit hours. (W)

ARTC 2371 Advanced 2-D Computer Animation

Advanced work in 2-D animations. Further development of animated graphics and art for video, film, or interactive media with emphasis on scripting. Lab required. Prerequisite: ARTV 1303. 3 credit hours. (W)

ARTC 2372 Character Animation and Rendering

Advanced work in 3-D animation. Students are exposed to state-of-the-art software and hardware with emphasis on 3-D modeling and character animation pertaining to the entertainment industry. Lab required. Prerequisite: ARTC 2341 (Maya). 3 credit hours. (W)

ARTC 2375 Digital Imaging II

Formerly ARTC 2305

Advanced principles of digital image processing. Emphasis on bitmapped-or raster-based image making and the technical aspects of electronic design for commercial applications. Topics include color separation of plates, and channels. Lab required. Prerequisite: ARTC 1302. 3 credit hours. (W)

ARTC 2378 Animation on the Web

Explores software and techniques applicable to web animation. Emphasis on understanding animation software and its usage in web automation design. Prerequisite: IMED 1316. 3 credit hours. (W)

ARTC 2379 Computer Game Development

Students will learn how to assemble a working computer game prototype. Instruction will draw upon skills learned in graphics and programming prerequisite courses. The objectives of this course are designed to show students how to integrate 2-D and 3-D graphics, animation, audio and source code for a 3-D gaming engine. Prerequisites: ARTC 2341 and COSC 1437. 3 credit hours. (W)

ARTS 1301 Art Appreciation

Introduction to the visual arts, emphasizing the understanding and appreciation of art. Reviews two- and three-dimensional art forms, methods, and media; examines the visual elements and principles of design; and briefly surveys art styles from the prehistoric to the 20th century. 3 credit hours.

ARTS 1303 Art History I

Survey of art history from prehistoric times to the Renaissance. Special consideration is given to the form and content of a work of art, as well as the social and cultural context in which the work is created. 3 credit hours.

ARTS 1304 Art History II

Survey of art history from the Renaissance period to the present. Special consideration is given to the form and content of a work of art, as well as the social and cultural context in which the work is created. 3 credit hours.

ARTS 1311 Design I (Basic 2-D)

Introduction to two-dimensional visual organization dealing with basic elements and principles of design. Exploration of black and white, color, and a variety of media. Prepares students for composition in painting, drawing, and other two-dimensional art courses. Lab required. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 1312 Design II (Basic 3-D)

Introduction to three-dimensional design problems utilizing various sculpture materials. Exploration of form and methods in a variety of media. Prepares students for sculpture and other three-dimensional art courses. Design I is not a prerequisite. Lab required. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 1313 Historical Foundation of Photography/Imaging Technology

Formerly PHTC 1313

Introduction to technology in the visual arts, designed to enhance artistic awareness. Includes a foundational approach to photography history and culture through the exploration of a variety of art works from the northern renaissance use of the camera obscura to the paradigm change of computer technology. Students will demonstrate knowledge of tools and materials through lab participation. Lab required. 3 credit hours.

ARTS 1316 Drawing I

Introduction to drawing including space, form, line, contour, gesture, texture, value and composition. Learn observational skills in order to render the subjects of still life, figure, perspective and landscape more accurately. Emphasis on technique, imagination, and use of a variety of materials. Lab required. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 1317 Drawing II

Continued study of space, form, line, contour, gesture, texture, value and composition in still life, figure, perspective and landscape. Use of color will be introduced in various media. Emphasis on imagination, technique, development of a personal drawing style, and composition. Lab required. Prerequisite: ARTS 1316. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 2311 Introduction to Color/Painting

Practical application of current color theories used in both fine arts and commercial art. Emphasis on color perception and color psychology with exercises in transparent and opaque pigments, printing inks, and

color photography. Lab required. Prerequisites: ARTS 1311 and ARTS 1316. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 2312 Design IV (Advanced Design)

Large-scale design projects combining 2-D and 3-D including installations and multisensory environments. Lab required. Prerequisites: ARTS 1311 and ARTS 1312. 3 credit hours.

ARTS 2316 Painting I

Introduction to painting including use of materials, techniques, color study, and composition. Various painting styles will be practiced. Lab required. Prerequisite: ARTS 1316. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 2317 Painting II

Increases the student's ability to use various techniques, color, and composition with acrylics, oils, and other media. Explores realistic and abstract approaches to painting. Emphasis on design, imagination, personal expression and painting style. Lab required. Prerequisite: ARTS 2316. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 2323 Life Drawing I

Drawing of the life model including instruction in anatomical and creative approaches to figure drawing. Emphasis on personal expression and creativity. Lab required. Prerequisite: ARTS 1316. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 2324 Life Drawing II

Continuation of study of the life model; emphasis on personal expression and creativity. Lab required. Prerequisite: ARTS 2323. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 2326 Sculpture I

Study of three-dimensional form and introduction to sculpture techniques including basic methods of modeling, construction, and simple casting procedures. Exploration of various media including stone, wood, metal, plaster, and paper. Lab required. Prerequisite: ARTS 1312. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 2327 Sculpture II

Continued application of three-dimensional form and sculpture techniques gaining experience in composition and problem solving in various media. Emphasis on creative expression and personal style. Lab required. Prerequisite: ARTS 2326. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 2333 Printmaking I

Introduction to the process of intaglio and relief printing including linoleum cuts, etching, aquatint, collagraph, and monotypes. Lab required. Prerequisite: ARTS 1316. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 2334 Printmaking II

Continued application of the intaglio and relief printing processes gaining experience in composition and problem solving in various techniques. Emphasis on creative expression and personal style. Lab required. Prerequisite: ARTS 2333. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 2336 Papermaking/Bookbinding

Elements of structure and principles of design using two and three-dimensional concepts in the fiber forms of papermaking and bookbinding. Lab required. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 2341 Art Metals I

Exploration of sculptural forms using non-ferrous and precious metals. Metal construction and jewelry making techniques including soldering, lost wax casting, cold connections, patinas and surface embellishment. Lab required. Prerequisite: ARTS 1312. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 2342 Art Metals II

Continuation of Art Metals I with emphasis on advanced techniques and individual creative expression. Lab required. Prerequisite: ARTS 2341. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 2346 Ceramics I

Introduction to ceramic design and methods including hand building techniques and use of the potter's wheel. Explores clays, glazing, and firing techniques including stoneware and raku. Lab required. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 2347 Ceramics II

Further study of ceramic design, method, and media with exploration of various clays, glaze compositions, and kiln operations. Emphasis on creative expression and personal style. Lab required. Prerequisite: ARTS 2346. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 2348 Digital Art I

Introduction to creating art on the computer; includes techniques with pencils, charcoal, crayons, pastels, watercolor, oils, and collage. Emphasis is placed on combining traditional art techniques with the computer. No previous computer experience necessary. Lab required. Prerequisite: ARTS 1316. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 2349 Digital Art II

Continuation of ARTS 2348. Lab required. Prerequisite: ARTS 2348. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 2356 Photography I

Introduction to photography: basic camera operations and darkroom techniques; emphasis on visual imagination and design. Lab required. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 2357 Photography II

Intermediate black-and-white course; emphasis on developing a visual language, problem solving, craftsmanship, and learning to edit personal work. Technical considerations include print and negative quality, use of studio lighting, and large format cameras. Lab required. Prerequisite: ARTS 2356. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 2366 Watercolor I

Introduction to watercolor including instruction in the use of brushes, papers, materials, and various painting techniques on wet and dry paper. Gain experience in mixing colors, color methods, and problem solving in the use of technique and in skillful observation of composition and painting style. Lab required. Prerequisite: ARTS 1316. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 2367 Watercolor II

Increases the student's ability to master technique, identify the different pigment properties of color and determine their best use. Exploration of different tools, papers, materials and techniques will be practiced. Emphasis on personal expression and painting style. Lab required. Prerequisite: ARTS 2366. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 2371 Portfolio

Advanced study for the development of a high quality portfolio. Courses available in various art areas including painting, color theory, drawing, ceramics, sculpture, papermaking, printmaking, and photography. Lab required. Prerequisite: Advanced class in field of study. 3 credit hours.

Note: Students should expect additional supply costs.

ARTS 2389 Academic Co-op Arts/Photography

Integrates on-campus study with practical hands-on work experience in art/photography. In conjunction with class seminars, the student will set specific goals and objectives in the study of art. Contact the Cooperative Work Experience Office. 3 credit hours.

ARTV 1211 Storyboard

Formerly IMED 1211

Techniques of storyboarding including organizing a project's content and arranging it in a visual format. Lab required. 2 credit hours. (W)

ARTV 1303 Basic Animation

Formerly ARTC 1301

Examination of concepts, characters, and storyboard for basic animation production. Emphasizes creating movement and expression utilizing traditionally or digitally generated image sequences. Lab required. Prerequisites: ARTC 1325 and ARTV 1211. 3 credit hours. (W)

ARTV 1343 Digital Sound

Formerly IMED 1343

Digitizing sound and incorporating it into multimedia or web titles for various delivery systems. Emphasizes compression issues, sampling, synchronizing, and resource management. Lab required. 3 credit hours. (W)

ARTV 1345 3-D Modeling and Rendering

Formerly ARTC 1345

Techniques of three-dimensional (3-D) modeling utilizing appropriate software. Includes the creation and modification of 3-D geometric shapes, use of a variety of rendering techniques, camera light sources, texture, and surface mapping. Lab required. Prerequisite: ARTC 1325. Corequisite: ARTC 1302. 3 credit hours (W)

ARTV 1351 Digital Video

Formerly IMED 1351

Producing and editing video and sound for multimedia or web productions. Emphasizes capture, editing, and outputting of video using a desktop digital video workstation. Lab required. Prerequisite: ARTC 1325 and ARTV 1211. 3 credit hours. (W)

ARTV 2341 Advanced Digital Video

Formerly IMED 2341

Advanced digital video techniques for post-production. Emphasizes generation and integration of special effects, 2-D animation and 3-D animation for film, video, CD-ROM, and the Internet. Exploration of new and emerging compression and video streaming technologies. Lab required. Prerequisite: ARTV 1351. 3 credit hours. (W)

b

BCIS 1305 Business Computer Applications

Computer terminology, hardware, software, operating systems, and information systems relating to the business environment. The main focus of this course is on business applications of software including word processing, spreadsheets, databases, presentation graphics, and business-oriented utilization of the internet. This course will help you unlock the potential of properly applied information systems concepts. Programming concepts are also introduced. Lab required. 3 credit hours.

BCIS 1332 Cobol I

Examines structured program design, development, testing, implementation, documentation of common business applications, and report generation using COBOL. Lab required. Prerequisite: COSC 1300. 3 credit hours.

BCIS 2332 Cobol II

Emphasis on advanced techniques, disk accessing and storage, direct and sequential access, and console input and output. Additional topics include system profiles and security, control language programming, data validation, and program design and testing. Lab required. Prerequisite: BCIS 1332. 3 credit hours.

BCIS 2390 Systems Analysis and Design

Analysis of business information needs and preparation of specifications and requirements for appropriate data system solutions. Includes instruction in information requirements analysis, specification development and writing, prototype evaluation, and network application interfaces. Prerequisite: BCIS 1305 or COSC 1300. 3 credit hours.

BIOL 1322 General Nutrition

Nutrients and nutritional processes including functions, food sources, digestion, absorption, and metabolism with application to normal and therapeutic human nutritional needs. For biology and nutrition majors. 3 credit hours.

BIOL 1323 Nutrition and Diet Therapy

Applications of nutrition principles and techniques of nutrition care for healthy individuals and patients/clients at nutritional risk. Nutrition risk screening, interviewing/counseling methods, diet evaluation, basic diet calculations, and documentation. 3 credit hours.

BIOL 1406 General Biology I*

For science majors. Current knowledge in the fundamentals of biology from the molecular to cellular level of organization. General topics covered include basic biochemistry, metabolism, energetics, cell structure, DNA, genetics, viruses, and bacteria. Lab required. Prerequisite: Pass reading requirement of TSI; high school chemistry is recommended. 4 credit hours.

**This course is also offered through the Center for Advanced Study in Mathematics and Natural Sciences (CASMNS). Please see page 72 for further information.*

BIOL 1407 General Biology II*

For science majors. Continuation of BIOL 1406. The biology of the protists, fungi, plants and animals with emphasis on the body systems. Also includes development, diversity, animal behavior and ecology. Dissection included. Lab required. Prerequisite: BIOL 1406. 4 credit hours.

**This course is also offered through the Center for Advanced Study in Mathematics and Natural Sciences (CASMNS). Please see page 72 for further information.*

BIOL 1408 Introduction to Biology I

For non-science majors. Survey of biology including molecular and cellular biology, genetics, DNA, microbiology, evolution, and ecology. Emphasis upon current topics in biology. Lab required. 4 credit hours.

BIOL 1409 Introduction to Biology II

For non-science majors. Continuation of BIOL 1408. The biology of the protists, fungi, plants and animals with emphasis on general human anatomy and physiology. Current topics in biology will be discussed. Dissection included. Lab required. Prerequisite: BIOL 1408. 4 credit hours.

BIOL 1411 General Botany*

For science majors. Study of structure and function of plants. Includes plant cells, tissues, organs, an evolutionary survey, and life histories of algae, fungi, mosses, liverworts, ferns and seed-producing plants. Plants' reproductive and functional interactions with their environment and with man. Lab required. 4 credit hours.

**This course is also offered through the Center for Advanced Study in Mathematics and Natural Sciences (CASMNS). Please see page 72 for further information.*

BIOL 2389 Academic Co-op Biology

Integrates on-campus study with practical hands-on work experience in biology. In conjunction with class seminars, the student will set specific goals and objectives in the study of biology. Contact the Cooperative Work Experience Office. 3 credit hours.

BIOL 2401 Anatomy and Physiology I

Study of cell structure and function, tissues, and the skeletal, muscular, and nervous systems. Emphasis is on structure, function, and the interrelationships of the human systems. Lab required. Prerequisite: BIOL 1406 or two years of high school biology within the last three years, or consent of department chair. 4 credit hours.

BIOL 2402 Anatomy and Physiology II

Continued study of structure and function related to the human endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Additional topics include: composition and functions of blood; the immune response; fluid, electrolyte and pH balance; and human development. Emphasis is placed on the interrelationships of these systems. Lab required. Prerequisite: BIOL 2401 within the last five years. 4 credit hours.

BIOL 2404 Human Anatomy and Physiology Basic

A one-semester survey of the structure and function of the human body, including discussion and study of cells, tissues, organs, and systems. Not intended for allied health or science majors. Lab required. Prerequisite: SRGT 1301 or consent of instructor. 4 credit hours.

BIOL 2406 Environmental Biology

Introduction to contemporary ecological problems of plant and animal communities. An analysis of ecosystems at the species, population, and community levels of organization, with a discussion of the effects of

human interaction. Lab required, including field trips. Prerequisite: BIOL 1406 or consent of instructor. 4 credit hours.

BIOL 2416 Genetics

Principles of classical and molecular genetics and the function and transmission of hereditary material. Explores population genetics and genetic engineering, with special attention paid to human genetics and current research in genetics. Includes field trips to genetic laboratories. Lab required. Prerequisite: BIOL 1406. 4 credit hours.

BIOL 2421 Microbiology

Classification, cell structure, metabolism, and historical concepts of microorganisms including bacteria, viruses, fungi, protozoa, Chlamydia and Rickettsia. Infectious diseases and immunology will be emphasized. Practical microbiology will include diagnostic microbiology of water, food, sewage, soil, and industrial applications. Laboratory methods are stressed, and experimentation with pure cultures of medical, environmental, and industrial importance is used extensively. Lab required. Prerequisite: BIOL 2401 within the last five years; Prerequisite/corequisite: BIOL 2402. 4 credit hours.

BIOL 2428 Comparative Vertebrate Anatomy

Comparative anatomy of representative vertebrates with emphasis on comparisons of organ systems, vertebrate adaptations and evolution. Includes dissections of representative vertebrates. Lab required. Prerequisite: BIOL 1407. 4 credit hours.

BIOM 1280 Cooperative Education – Biomedical Technology/Technician

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 2 credit hours. (W)

BIOM 1355 Medical Electronic Applications

Presentation of sensors, transducers, and supporting circuits used in medical instrumentation devices. Lab required. 3 credit hours. (W)

BITC 1311 Introduction to Biotechnology

An introduction to biotechnology including career exploration, history and applications of DNA/RNA technology, molecular biology, bioethics, and laboratory safety practices. Lab required. 3 credit hours. (W)

BITC 1350 Special Studies and Bioethical Issues of Biotechnology

Formerly BITC 1391

Addresses current events, skills, attitudes, and behaviors pertinent to biotechnology and relevant to the professional development of the student. Will also explore ethical and legal behaviors in the context of the biotechnology industry. Prerequisite: BITC 1311 and BITC 1402 or consent of instructor. 3 credit hours. (W)

BITC 1402 Biotechnology Laboratory Methods and Techniques

A study of laboratory operations, management, equipment, instrumentation, quality control techniques, and safety procedures. Laboratory practice in using pH meters, mixing buffers, performing measurements, preparing solutions, and performing separatory techniques. Lab required. Prerequisite/corequisite: BITC 1311. 4 credit hours. (W)

BITC 2386 Internship – Biology Technician/Biotechnology Laboratory Technician

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Contact the Cooperative Work Experience Office. Prerequisite: Declared major of Biotechnology and have completed 9 hours of biotechnology courses and permission of department chair. 3 credit hours. (W)

BITC 2387 Internship – Biology Technician/Biotechnology Laboratory Technician

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Contact the Cooperative Work Experience Office. Prerequisite: Declared major of Biotechnology and have completed 9 hours of biotechnology courses and permission of department chair. 3 credit hours. (W)

BITC 2411 Biotechnology Laboratory Instrumentation

Formerly BITC 1401

Presentation of theory, applications, and operation of various analytical instruments. Practice of separation and identification techniques including electrophoresis, spectrophotometry, chromatography, and centrifugation. Lab required. Prerequisite: BITC 1311 and BITC 1402 or consent of instructor. 4 credit hours. (W)

BITC 2431 Cell Culture Techniques

A study of cell culture techniques. Laboratory emphasis on the principles and practices of initiation, cultivation, maintenance, preservation of cell lines, and applications. Lab required. Prerequisites: BIOL 1406 and BITC 1311. 4 credit hours. (W)

BITC 2441 Molecular Biology Techniques

Formerly BITC 2401

In depth coverage of the theory and laboratory techniques in molecular biology with an emphasis on gene expression and regulation, recombinant DNA, and nucleic acids. Lab required. Prerequisites: BITC 1311 and BITC 1402 or consent of instructor. 4 credit hours. (W)

BMGT 1301 Supervision

A study of the role of the supervisor. Managerial functions as applied to leadership, counseling, motivation, and human skills are examined. 3 credit hours. (W)

BMGT 1303 Principles of Management

Concepts, terminology, principles, theories, and issues in the field of management. 3 credit hours. (W)

BMGT 1305 Communications in Management

Basic theory and processes of communication skills necessary for the management of an organization's workforce. 3 credit hours. (W)

BMGT 1307 High Performance Work Teams

A study of the basic principles of building and sustaining teams in organizations, including team dynamics and process improvement. 3 credit hours. (W)

BMGT 1341 Business Ethics

Discussion of ethical issues, the development of a moral frame of reference, and the need for an awareness of social justice in management practices and business activities. Review of ethical responsibilities and relationships between organizational departments, divisions, executive management, and the public. 3 credit hours. (W)

BMGT 1342 Project Scope and Risk Management

Identification, analysis, and mitigation of threats to project management elements and the process of deciding what project to do, defining the plan for the desired outcomes, and developing a process for controlling changes to the project. 3 credit hours. (W)

BMGT 1343 Project Management

Critical path methods for planning and controlling projects including time/cost tradeoffs, resource utilization, and stochastic considerations. Managerial considerations include project costing, organizational design, and conflict resolution. Applications include system start-up/shutdown, new product introductions, management of research, and construction projects. 3 credit hours. (W)

BMGT 1344 Negotiations and Conflict Management

Theories which aid in the diagnosis of interpersonal and intergroup conflict. The role of manager as negotiator, intermediary, and problem solver. 3 credit hours. (W)

BMGT 1382 Cooperative Education – Business Administration and Management, General

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

BMGT 1391 Special Topics in Business Administration and Management, General

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or

...Continued on Next Page

occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. 3 credit hours. (W)

The Business of Theatre

The Business of Theatre is a foundational course in the art of promotion/marketing for the arts. Students will discuss and create plans for self-promotion (actors, choreographers, directors, designers, composers, technicians), as well as individual event promotion and “season” promotion/marketing. Unions and union contracts are examined, along with the various processes and techniques for graphic arts marketing.

BMGT 1396 Special Topics in General Retailing Operations

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. 3 credit hours. (W)

Sales Management

Sales Management has the primary goal of teaching people how to manage others in the workplace. In this course students practice determining the needs of subordinates, cohorts, and superiors; controlling the work environment so as to encourage personnel to achieve; understanding necessary practices for promoting personnel so that they can fit into their new positions well; and evaluating practices so as to make adjustments as needed. Students also perform activities that teach them how adult learning differs from non-adult learning.

BMGT 2309 Leadership

Concepts of leadership and its relationship to management. Prepares the student with leadership and communication skills needed to motivate and identify. 3 credit hours. (W)

BMGT 2310 Financial Management

Emphasis on the development and use of accounting information to support managerial decision-making processes in manufacturing, service, and for-profit settings. Topics include managerial concepts and systems, various analysis for decision making, and planning and control. 3 credit hours. (W)

BMGT 2311 Management of Change

Knowledge, skills, and tools that enable a leader/organization to facilitate change in a pro-active participative style. 3 credit hours. (W)

BMGT 2331 Principles of Quality Management

Quality of productivity in organizations. Includes planning for quality throughout the organization, analysis of costs of quality, and employee empowerment. 3 credit hours. (W)

BMGT 2341 Strategic Management

A study of the strategic management process, including analysis of how organizations develop and implement a strategy for

achieving organizational objectives in a changing environment. 3 credit hours. (W)

BMGT 2382 Cooperative Education – Business Administration and Management, General

Career-related activities encountered in the student’s area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

BUSG 1310 Scripting for E-Commerce

Introduces the basis for major scripting languages. Includes pages, hierarchies, layouts, design, scripting implementation, and server site techniques. Emphasis on server security (encryption) techniques. Students will use scripting techniques, including JavaScript, VBScript, ASP, PERL, and CGI Script, to design and implement basic business web pages. Prerequisite: ITSE 1311. 3 credit hours. (W)

BUSG 1315 Small Business Operations

Aspects of operating a small business. Emphasizes management functions including how managers plan, exercise leadership, organize, and control the operations. 3 credit hours. (W)

BUSG 1341 Small Business Financing

A study of the financial structure of a small business. Topics address business finance, including where the funds come from and what they are used for; budgeting including planning and preparing, record keeping, taxation, insurance, and banking. 3 credit hours. (W)

BUSG 2309 Small Business Management

Starting and operating a small business. Includes facts about a small business, essential management skills, how to prepare a business plan, financial needs, marketing strategies, and legal issues. 3 credit hours. (W)

BUSI 1301 Introduction to Business

Survey of business operations in a capitalistic economy including ownership, management, marketing, finance and legal and regulatory environment. Includes the role of business in society and the development of a business vocabulary. 3 credit hours.

BUSI 1307 Personal Finance

Personal financial issues including financial planning, insurance, budgeting, credit, home ownership, savings and tax problems. Lab required. 3 credit hours.

BUSI 2301 Business Law

General principles of the law of contracts, property and torts. Includes the historical and ethical background of the law and current legal principles. 3 credit hours.

CDEC 1313 Curriculum Resources for Early Childhood Programs

A study of the fundamentals of curriculum design and implementation in developmentally appropriate programs for children. Lab required. 3 credit hours. (W)

CDEC 1317 Child Development Associate Training I

Based on the requirements for the Child Development Associate National Credential (CDA). Topics on CDA overview, general observation skills, and child growth and development overview. The four functional areas of study are creative, cognitive, physical, and communication. Lab required. 3 credit hours. (W)

CDEC 1319 Child Guidance

An exploration of guidance strategies for promoting prosocial behaviors with individual and groups of children. Emphasis on positive guidance principles and techniques, family involvement and cultural influences. Practical application through direct participation with children. Lab required. 3 credit hours. (W)

CDEC 1321 The Infant and Toddler

A study of appropriate infant and toddler programs (birth to age 3), including an overview of development, quality routines, appropriate environments, materials and activities, and teaching/guidance techniques. Lab required. 3 credit hours. (W)

CDEC 1323 Observation and Assessment

A study of observation skills, assessment techniques, and documentation of children's development. Lab required. 3 credit hours. (W)

CDEC 1330 Growth and Development: 6-14 Years

A study of the principles of child growth and development from six through 14 years. Focus on physical, cognitive, social, and emotional domains of development. Lab required. 3 credit hours. (W)

CDEC 1335 Early Childhood Development: 3-5 Years

This course covers the principles of normal growth and development from three to five years. Emphasis is on physical, emotional, and social development. Lab required. 3 credit hours. (W)

CDEC 1339 Early Childhood Development: 0-3 Years

This course covers the principles of normal growth and development from conception through three years of age. Emphasis is on physical, intellectual, and social development. Lab required. 3 credit hours. (W)

CDEC 1340 Instructional Techniques for Children With Special Needs

Exploration of development and implementation of curriculum for children with special needs. Lab required. 3 credit hours. (W)

CDEC 1342 Intro to Montessori

This course summarizes specific areas in child care and development and prepares the student for entry into the Montessori program. These areas include observation, administration, issues of childcare, self development, health, and safety. Lab required. 3 credit hours. (W)

CDEC 1356 Emergent Literacy for Early Childhood

An exploration of principles, methods and materials for teaching young children language and literacy through a play-based integrated curriculum. Lab required. 3 credit hours. (W)

CDEC 1358 Creative Arts for Early Childhood

An exploration of principles, methods and materials for teaching children music, movement, visual arts, and dramatic play through process-oriented experiences to support divergent thinking. Lab required. 3 credit hours. (W)

CDEC 1359 Children with Special Needs

A survey of information regarding children with special needs including possible causes and characteristics of exceptionalities, intervention strategies, available resources, referral processes, the advocacy role, and legislative issues. Lab required. 3 credit hours. (W)

CDEC 1392 Special Topics in Child Development

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Lab required. 3 credit hours. (W)

How Words Work

This course supports the ongoing learning process of students enrolled in an Early Childhood Education in Reading regarding language processes, how language is learned, and diversity in terms of language variation. Emphasis will be placed on what children need to know about sounds, letters and words in order to be competent readers and writers. The reciprocal relationship between reading and writing development is the theoretical frame for the course. Understandings of the phonological and orthographic language systems as they specifically relate to literacy development in young children will be constructed through teaching children. Students will design assessment and instruction for children based on their individual competencies related to letters, sounds, and their relationship, word analysis, and spelling. Prerequisite: CDEC 1356.

CDEC 1394 Special Topics in Child Care

Provider/Assistant

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Lab required. 3 credit hours. (W)

CDEC 1396 Special Topics in Child Care and Support Services Management

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Lab required. 3 credit hours. (W)

CDEC 2166 Practicum – Child Care Provider/Assistant

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. Lab required. Prerequisite: Consent of department chair. 1 credit hour. (W)

CDEC 2304 Child Abuse and Neglect

Methods used in the identification of physical, emotional, and sexual abuse and neglect with an emphasis on developing skills for working with children and families. Includes methods of referral to public and private agencies that deal with investigation and treatment. Lab required. 3 credit hours. (W)

CDEC 2307 Math and Science for Early Childhood

Formerly CDEC 1357

An exploration of principles, methods, and materials for teaching children math and science concepts and process skills through discovery and play. Lab required. 3 credit hours. (W)

CDEC 2315 Diverse Cultural/Multilingual Education

An overview of multicultural education to include relationship with the family and community to develop awareness and sensitivity to diversity related to individual needs of children. Lab required. 3 credit hours. (W)

CDEC 2322 Child Development Associate Training II

A continuation of the study of the requirements for the Child Development Associate National Credential (CDA). The six functional areas of study include safe, healthy, learning environment, self, social, and guidance. Lab required. 3 credit hours. (W)

CDEC 2324 Child Development Associate Training III

Continuation of the requirements for the Child Development Associate National Credential (CDA). Three of the 13 functional areas

of study include family, program management and professionalism. Lab required. Prerequisite: CDEC 1317 and CDEC 2322. 3 credit hours. (W)

CDEC 2326 Administration of Programs for Children I

A practical application of management procedures for early child care education programs, including a study of planning, operating, supervising, and evaluating programs. Topics on philosophy, types of programs, policies, fiscal management, regulations, staffing, evaluation, and communication. Lab required. 3 credit hours. (W)

CDEC 2328 Administration of Programs for Children II

An in-depth study of the skills and techniques in managing early care and education programs, including legal and ethical issues, personnel management, team building, leadership, conflict resolution, stress management advocacy, professionalism, fiscal analysis and planning parent education/partnerships, and technical applications in programs. Lab required. Prerequisite: CDEC 2326. 3 credit hours. (W)

CDEC 2336 Administration of Programs for Children III

An advanced study of the skills and techniques in managing early child care education programs. Lab required. Prerequisite: CDEC 2328. 3 credit hours. (W)

CDEC 2341 The School Age Child

A study of appropriate programs for the school age child (5 to 13 years), including an overview of development, appropriate environments, materials, and activities and teaching/guidance techniques. Lab required. 3 credit hours. (W)

CDEC 2385 Cooperative Education – Child Development

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. Prerequisite: Consent of department chair. 3 credit hours. (W)

CETT 1303 DC Circuits

A study of the fundamentals of direct current including Ohm's law, Kirchoff's laws and circuit analysis techniques. Emphasis on circuit analysis of resistive networks and DC measurements. Lab required. 3 credit hours. (W)

CETT 1305 AC Circuits

A study of alternating current including series and parallel AC circuits, phasors, capacitive and inductive networks, transformers, and resonance. Lab required. 3 credit hours. (W)

CETT 1325 Digital Fundamentals

An entry-level course in digital electronics covering number systems, binary mathematics, digital codes, logic gates, Boolean algebra, Karnaugh maps, and combinational logic. Emphasis on circuit logic analysis and troubleshooting digital circuits. Lab required. 3 credit hours. (W)

CETT 1329 Solid State Devices

A study of diodes, transistor characteristics and other semiconductor devices, including analysis of static and dynamic characteristics, biasing techniques, and thermal considerations. Lab required. 3 credit hours. (W)

CETT 1341 Solid State Circuits

A study of various semiconductor devices incorporated in circuits and their applications. Emphasis on circuit construction, measurements, and analysis. Lab required. 3 credit hours. (W)

CETT 1380 Cooperative Education – Computer Engineering Technology/Technician

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

CETT 1403 DC Circuits

A study of the fundamentals of direct current including Ohm's law, Kirchoff's laws and circuit analysis techniques. Emphasis on circuit analysis of resistive networks and DC measurements. Lab required. 4 credit hours. (W)

CETT 1405 AC Circuits

A study of the fundamentals of alternating current including series and parallel AC circuits, phasors, capacitive and inductive networks, transformers, and resonance. Lab required. Prerequisite: CETT 1403 or consent of instructor. 4 credit hours. (W)

CETT 1409 DC-AC Circuits

Fundamentals of DC circuits and AC circuits operation including Ohm's law, Kirchoff's laws, networks, transformers, resonance, phasors, capacitive and inductive and circuit analysis techniques. Lab required. 4 credit hours. (W)

CETT 1421 Electronic Fabrication

A study of electronic circuit fabrication techniques including printed circuit boards, wire wrapping, bread boarding, and various soldering techniques. Lab required. 4 credit hours. (W)

CETT 1425 Digital Fundamentals

An entry-level course in digital electronics covering number systems, binary mathematics, digital codes, logic gates, Boolean algebra,

Karnaugh maps, and combinational logic. Emphasis on circuit logic analysis and troubleshooting digital circuits. Lab required. 4 credit hours. (W)

CETT 1429 Solid State Devices

A study of diodes, transistor characteristics and other semiconductor devices, including analysis of static and dynamic characteristics, biasing techniques, and thermal considerations. Lab required. 4 credit hours. (W)

CETT 1431 Technical Programming

Introduction to a high level programming language such as BASIC, PASCAL, or "C". Topics include structured programming and problem solving as they apply to technical applications. Lab required. 4 credit hours. (W)

CETT 1441 Solid State Circuits

A study of various semiconductor devices incorporated in circuits and their applications. Emphasis on circuit construction, measurements, and analysis. Lab required. 4 credit hours. (W)

CETT 1445 Microprocessor

An introductory course in microprocessor software and hardware, its architecture, timing sequence, operation, and programming, and discussion of appropriate software diagnostic language and tools. Lab required. Prerequisite: CETT 1425 or consent of instructor. 4 credit hours. (W)

CETT 1457 Linear Integrated Circuits

A study of the characteristics, operations, stabilization, testing, and feedback techniques of linear integrated circuits. Application in computation, measurements, instrumentation, and active filtering. Lab required. Prerequisite: CETT 1405 or consent of instructor. 4 credit hours. (W)

CETT 2333 Digital Computer Circuits

A study of the three major component systems of a digital computer including arithmetic logic operations, RAM and ROM memory systems, and control systems. Lab required. 3 credit hours. (W)

CETT 2380 Cooperative Education – Computer Engineering Technology/Technician

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

CETT 2439 Amplifier Analysis

Advanced study of electronic amplifier applications including op-amps, audio amps, video amps, and other high frequency amplifiers. Lab required. Prerequisite: CETT 1429 or consent of instructor. 4 credit hours. (W)

CHEF 1301 Basic Food Preparation

A study of the fundamental principles of food preparation and cookery to include Brigade System, cooking techniques, material handling, heat transfer, sanitation, safety, nutrition, and professionalism. Professional chef uniform and kitchen tools required. Lab included. 3 credit hours. (W)

Note: Culinary lab classes require extended periods of time standing in place, lifting heavy weights (up to 60 pounds), reaching, bending, and working around open flames and with cleaning chemicals.

CHEF 1305 Sanitation and Safety

A study of personal cleanliness; sanitary practices in food preparation; causes, investigation, control of illness caused by food contamination (Hazard Analysis Critical Control Points); and work place safety standards. 3 credit hours. (W)

CHEF 1341 American Regional Cuisine

A study of the development of regional cuisines in the United States with emphasis on the similarities in production and service systems. Application of skills to develop, organize, and build a portfolio of recipe strategies and production systems. Professional chef uniform and kitchen tools required. Lab included. 3 credit hours. (W)

Note: Culinary lab classes require extended periods of time standing in place, lifting heavy weights (up to 60 pounds), reaching, bending, and working around open flames and with cleaning chemicals.

CHEF 1345 International Cuisine

The study of classical cooking skills associated with the preparation and service of international and ethnic cuisine. Topics include similarities between food production systems used in the United States and other regions of the world. Professional chef uniform and kitchen tools required. Lab included. 3 credit hours. (W)

Note: Culinary lab classes require extended periods of time standing in place, lifting heavy weights (up to 60 pounds), reaching, bending, and working around open flames and with cleaning chemicals.

CHEF 1380 Cooperative Education – Culinary Arts/Chef Training

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

CHEF 2301 Intermediate Food Preparation

Continuation of CHEF 1301. Topics include the concept of pre-cooked food items, as well as scratch preparation. Covers full range of food preparation techniques. Professional chef uniform and kitchen tools required. Lab included. 3 credit hours. (W)

Note: Culinary lab classes require extended periods of time standing in place, lifting heavy weights (up to 60 pounds), reaching, bending, and working around open flames and with cleaning chemicals.

CHEF 2331 Advanced Food Preparation

Topics include the concept of pre-cooked food items and the preparation of canapés, hors d'oeuvres, and breakfast items. Reinforces the course material of CHEF 2301. Professional chef uniform and kitchen tools required. Lab included. 3 credit hours. (W)

Note: Culinary lab classes require extended periods of time standing in place, lifting heavy weights (up to 60 pounds), reaching, bending, and working around open flames and with cleaning chemicals.

CHEF 2581 Cooperative Education – Culinary Arts/Chef Training

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 5 credit hours. (W)

CHEM 1405 Introduction to Chemistry I

For non-science majors. Survey of chemistry including scientific calculations, chemical equations, theory of atoms and bonding, states of matter, nuclear chemistry, elementary thermodynamics, and acid-base chemistry. Lab and recitation required. Prerequisite: high school algebra or equivalent within the last 5 years. 4 credit hours.

CHEM 1407 Introduction to Chemistry II

Focuses on organic chemistry and biochemistry. Discussions routinely include questions and/or applications from the fields of nutritional and consumer chemistry. Lab and recitation required. Prerequisite: CHEM 1405 within the last 5 years with a grade of "C" or better. 4 credit hours.

CHEM 1411 General Chemistry I*

For science majors, pre-medical, pre-dental, or engineering students. Includes stoichiometry, ideal gas behavior, atomic theory, periodic trends, VSEPR theory, thermochemistry, and bonding theory. Lab and recitation required. Prerequisites: Pass reading requirement of TSI; MATH 1314 within the last 5 years with a grade of "C" or better, and either 1 year of high school chemistry or CHEM 1405 within the last 5 years with a grade of "C" or better. 4 credit hours.

**This course is also offered through the Center for Advanced Study in Mathematics and Natural Sciences (CASMNS). Please see page 72 for further information.*

CHEM 1412 General Chemistry II*

Addresses topics in chemical equilibria, acid-base theory, solubility, electrochemistry, nuclear chemistry, organic chemistry, biochemistry and states of matter. Lab and recitation required. Prerequisite: CHEM 1411 within the last five years with a grade of "C" or better. 4 credit hours.

**This course is also offered through the Center for Advanced Study in Mathematics and Natural Sciences (CASMNS). Please see page 72 for further information.*

CHEM 1419 Introduction to Organic/Biochemistry

Introduction to organic chemistry and biochemistry for technical applications. Provides general preparation for entry-level technical students in biotechnology or laboratory biology. Not designed for students in science or pre-professional programs. Lab and recitation required. Prerequisite: CHEM 1405 or CHEM 1411. 4 credit hours.

CHEM 2389 Academic Co-op Chemistry

Integrates on-campus study with practical hands-on work experience in chemistry. In conjunction with class seminars, the student will set specific goals and objectives in the study of chemistry. Contact the Cooperative Work Experience Office. 3 credit hours.

CHEM 2401 Analytical Chemistry

Lab intensive course focusing on the principles and problems associated with quantitative chemical analysis. Explores the techniques and precautions required to quantitatively measure a variety of chemical species utilizing volumetric, gravimetric and spectroscopic methods. Introduces experimental design and the statistical aspects of data treatment. Lab required. Prerequisite: CHEM 1412 within the last 5 years with a grade of "C" or better. 4 credit hours.

CHEM 2423 Organic Chemistry I*

Study of carbon chemistry that considers covalent bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups and introductory synthesis. Lab experiments develop organic techniques. Lab and recitation required. Prerequisite: CHEM 1412 within the last five years with a grade of "C" or better. 4 credit hours.

**This course is also offered through the Center for Advanced Study in Mathematics and Natural Sciences (CASMS). Please see page 72 for further information.*

CHEM 2425 Organic Chemistry II*

Includes methods of structural analysis, advanced synthesis and reactions, biochemistry and organometallic topics. Lab experiments emphasize techniques in synthesis, purification and analysis. Lab and recitation required. Prerequisite: CHEM 2423 within the last 5 years with a grade of "C" or better. 4 credit hours.

**This course is also offered through the Center for Advanced Study in Mathematics and Natural Sciences (CASMS). Please see page 72 for further information.*

CHIN 1411 Beginning Chinese I

Introduction to the basic skills of speaking, reading, writing, and listening with attention to selected aspects of Chinese culture; designed for students with little or no previous language training. Instruction is enhanced by the use of tapes, slides, and video cassettes. Must demonstrate by assessment or prerequisite course, placement in ENGL 1301. 4 credit hours.

CHIN 1412 Beginning Chinese II

Continuation of CHIN 1411. Prerequisite: CHIN 1411. 4 credit hours.

CHIN 2311 Intermediate Chinese I

Review and application of skills in listening comprehension, speaking, reading, and writing. Emphasizes conversation, vocabulary acquisition, reading, composition, and culture. Prerequisite: CHIN 1412. 3 credit hours.

CHIN 2312 Intermediate Chinese II

Continuation of CHIN 2311, emphasizing conversation and reading skills. Prerequisite: CHIN 2311. 3 credit hours.

COMM 1307 Introduction to Mass Communication

Study of mass media in the United States with emphasis on newspapers, magazines, radio, and television; history of mass media; and the role and responsibility of mass media in modern society. 3 credit hours.

COMM 1316 News Photography I

Presentation of photographic techniques used by photojournalists in newspapers, magazines, and trade publications including news, feature, sports, editorial portraits, and photo essays. Includes a study of layout design and the freelance market. Lab required. Prerequisite: ARTS 2356. 3 credit hours.

COMM 1317 News Photography II

Instruction in the technical aspects involved in photo journalism. Topics include lighting equipment, techniques of production photography, reproduction principles, illustrative techniques, and advertising. The student will become proficient in the use of still cameras, film, digital and/or video capture, continuous tungsten light sources and electronic flash lighting, to serve conceptualization of photographic illustration. Lab required. Prerequisite: COMM 1316. 3 credit hours.

COMM 1319 Photo Editing and Layout

Extends the students' knowledge of technique and guides them in developing personal outlooks toward specific applications of the photographic process. This includes capture, editing, and layout process. Images and text issues will be considered including editorial shooting assignments in context to magazine design. Lab required. Prerequisite: ARTS 2356 and PHTC 1349. 3 credit hours.

COMM 1335 Survey of Radio/Television

A historical and critical comparison of the first two broadcast media, this course includes discussion of important historical issues that resonate with contemporary media concerns – including intellectual property and patent rights, censorship and freedom of speech, broadcast ethics, public responsibility and emotional contagion. The course also discusses the development and necessary metamorphosis of each medium in response to contemporary events, social change, and the encroachment of new technology, new media and alternative delivery methods. Additionally, COMM 1335 covers critical perspectives in radio and television, production values and aesthetics, and the impact of change in the broadcast marketplace. 3 credit hours.

COMM 2300 Media Literacy

Criticism and analysis of the function, role, and responsibility of the mass media in modern society from the consumer perspective. Includes the ethical problems and issues facing each media format, with the effect of political, economic, and cultural factors on the operation of the media. Prerequisite: COMM 1307. 3 credit hours.

COMM 2331 Radio and TV Announcing

Principles of, and practice in, radio and TV announcing. Includes the study of voice (diction, pronunciation, and delivery) as it relates to mediated contexts; also provides practical experience in news announcing, interviewing, and acting in commercials. 3 credit hours.

COMM 2332 Radio/Television News

The preparation of news and analysis of news styles for the electronic media. 3 credit hours.

COMM 2339 Writing For Radio, TV, and Film

Designed to train the student in all typical forms of broadcast and film writing, including news, commercial copy, critique and commentary, radio theatre, comedy and dramatic teleplay, and screenplay. Course provides both writing and production experiences. 3 credit hours.

COMM 2389 Academic Co-op Communication

For students with interest or major in mass communications, radio, TV, or film. Integrates on-campus study with practical hands-on work experience in communication. In conjunction with class seminars, the student will set specific goals and objectives in the study of communication. Contact the Cooperative Work Experience Office. 3 credit hours.

COSC 1300 Computer Essentials

Study of basic hardware, software, operating systems, programming concepts and current applications in various segments of society. Current issues such as the effect of computers on society and the history and use of computers are also studied. Required labs introduce students to Windows, the Internet, word processing, spreadsheets, databases, and programming concepts with emphasis on critical thinking/problem solving. Lab required. 3 credit hours.

COSC 1337 Programming Fundamentals II – Java

Review of control structures and data types with emphasis on structured data types. Applies the object-oriented programming paradigm, focusing on the definition and use of classes along with the fundamentals of object-oriented design. Includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering. Lab required. Prerequisite: COSC 1436. 3 credit hours.

Note: Students may take this course or COSC 1437 for credit but not both.

COSC 1436 Programming Fundamentals I – C++

Introduces the fundamental concepts of structured programming. Topics include software development methodology, data types, control

structures, functions, arrays, and the mechanics of running, testing, and debugging. This course assumes computer literacy. Lab required. Corequisite: MATH 1314. 4 credit hours.

COSC 1437 Programming Fundamentals II – C++

Review of control structures and data types with emphasis on structured data types. Applies the object-oriented programming paradigm, focusing on the definition and use of classes along with the fundamentals of object-oriented design. Includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering. Lab required. Prerequisite: COSC 1436. 4 credit hours.

Note: Students may take this course or COSC 1337 for credit but not both.

COSC 2325 Computer Organization and Machine Language

Study of the architecture of the computer through the use of assembly language programming. Includes study of registers, instruction sets, addressing techniques, machine execution traces, table searching/sorting, file I/O, program linking, and macros. This class is taught with Intel assembly language. Lab required. Prerequisite: COSC 1436. 3 credit hours.

COSC 2336 Programming Fundamentals III – C++

Further applications of programming techniques, introducing the fundamental concepts of data structures and algorithms. Topics include recursion, fundamental data structures (including stacks, queues, linked lists, hash tables, trees, and graphs), and algorithmic analysis. Lab required. Prerequisite: COSC 1437. 3 credit hours.

Note: Students may take this course or COSC 2436 for credit but not both.

COSC 2436 Programming Fundamentals III – Java

Further applications of programming techniques, introducing the fundamental concepts of data structures and algorithms. Topics include recursion, fundamental data structures (including stacks, queues, linked lists, hash tables, trees, and graphs), and algorithmic analysis. Lab required. Prerequisite: COSC 1337. 4 credit hours.

Note: Students may take this course or COSC 2336 for credit but not both.

CPMT 1411 Introduction to Computer Maintenance

An introduction to the installation, configuration, and maintenance of a microcomputer system. Emphasis on the evolution of microprocessors and microprocessor bus structures. Lab required. 4 credit hours. (W)

CPMT 1443 Microcomputer Architecture

An intermediate level course in computer characteristics and subsystem operations, timing, control circuits, and internal input/output controls. Lab required. Prerequisite: CETT 1325 or consent of instructor. 4 credit hours. (W)

CPMT 1445 Computer Systems Maintenance

Examination of the functions of the components within a computer system. Development of skills in the use of test equipment and maintenance aids. Lab required. 4 credit hours. (W)

CPMT 2302 Home Technology Integration

Integration and maintenance of various home technology subsystems. Includes home automation, security and surveillance, home networks, video and audio networks, and structured wiring. Lab required. 3 hours. (W)

CPMT 2337 Microcomputer Interfacing

Concepts and terminology involved in interfacing the internal architecture of the microcomputer with commonly used external devices. Lab required. Prerequisite: CETT 1445 or consent of instructor. 3 credit hours. (W)

CPMT 2371 Advanced Home Technology Integration

This course is a continuation of Home Technology Integration. Introduce new technologies that can be integrated into home subsystems of the future. Discuss details of these new technologies including but not limited to Radio Frequency Identification, Global Positioning System, and Cellular Interface. Considers integration and maintenance of various home technology subsystems. Includes home automation, security and surveillance, home networks, video and audio networks, and structured wiring. Lab required. Prerequisite: CPMT 2302. 3 credit hours. (W)

CRIJ 1301 Introduction to Criminal Justice

A multidisciplinary overview and analysis of the major agencies, personnel, and decision-making points which comprise the criminal justice system. Includes problems and issues confronting legislatures, police, courts, corrections, and the community, as they respond to crime in a free society. Legal precedents guiding the decisions of criminal justice agents are also discussed. 3 credit hours.

CRIJ 1306 Court Systems and Practices

Study of procedural regulations that guide the processing of criminal cases through the criminal justice system, with emphasis on the Texas Code of Criminal Procedure and rules of evidence. Includes a discussion of the criminal defendant's due process rights from arrest through confinement as well as issues related to the administration of capital punishment. 3 credit hours.

CRIJ 1307 Crime in America

Survey of the nature, location, and impact of crime in America. Includes historical foundations of crime, theoretical explanations of criminality and delinquency, the recording and measurement of crime, descriptions of criminal careers, and an analysis of public policies concerning crime control. 3 credit hours.

CRIJ 1310 Fundamentals of Criminal Law

Nature of criminal law, historical and philosophical development of law in society, major definitions and concepts, classifications of crime, elements of crimes and penalties using the Texas statutes as illustrations, criminal responsibility. 3 credit hours.

CRIJ 1313 Juvenile Justice System

The juvenile justice system: history, philosophy, and evaluation of the juvenile court; juvenile court practices and procedures; neglect, dependency and delinquency, jurisdiction of the court, the role of the police officer, the correctional officer, and the social welfare worker in the juvenile justice system. 3 credit hours.

CRIJ 2301 Community Resources in Corrections

Introduction to the role of the community in corrections, community programs for adults and juveniles, administration of community programs, legal issues, future trends in community treatment. 3 credit hours.

CRIJ 2313 Correctional Systems and Practices

Corrections in the criminal justice system, correctional role, institutional operations, alternatives to institutionalization, treatment and rehabilitation, current and future issues. 3 credit hours.

CRIJ 2314 Criminal Investigation

Investigative theory, collection and preservation of evidence, sources of information, interview and interrogation, uses of forensic sciences, case and trial preparation. 3 credit hours.

CRIJ 2323 Legal Aspects of Law Enforcement

Police authority; responsibilities; constitutional restraints; laws of arrest, search, and seizure; and police liability. 3 credit hours.

CRIJ 2328 Police Systems and Practices

The police profession, organization of law enforcement systems, the police role, police discretion, ethics, police-community interaction, current and future issues. 3 credit hours.

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DANC 1101 Dance Improvisation

Exploration of movement and visual design leading to choreographic studies. Focus on developing creative potential, personal movement style and expressiveness. Emphasis on experiencing new kinds of movement, making connections among varied movement ideas, seeking new relationships and learning to visualize ideas in dance. 1 credit hour.

DANC 1110 Tap Technique I

Performance of basic rhythms and techniques fundamental to beginning tap dance. Focus on body placement, terminology, and tap combinations. 1 credit hour.

DANC 1111 Tap Technique II

Further study of tap technique with focus on increased vocabulary and more complex rhythms and combinations. Emphasis on skill development, rhythmic accuracy, analysis and composition. Prerequisite: DANC 1110 or consent of instructor. 1 credit hour.

DANC 1122 Folk Technique

Analysis of cultural backgrounds, costumes, and dance techniques leading to participation in a variety of folk dances. 1 credit hour.

DANC 1141 Ballet Technique I

Beginning ballet; development of elementary ballet technique and knowledge of terminology using barre, center work, and beginning movement combinations; emphasis on alignment. 1 credit hour.

DANC 1142 Ballet Technique II

Intermediate ballet; further study of ballet technique with focus on more complex movement combinations of petit allegro and grand allegro, tours and adagio work. Attention of performance qualities. Prerequisite: DANC 1141 or consent of instructor. 1 credit hour.

DANC 1145 Modern Dance Technique I

Beginning modern dance; introduction to the art and discipline of modern dance through floor and center work, basic rhythm, and movement combinations. Attention to the analysis of time, space and dynamics as they apply to dance. 1 credit hour.

DANC 1146 Modern Dance Technique II

Intermediate modern dance; further study in the art and discipline of modern dance. Includes technical development of the body for greater range of movement. Attention to focus, spatial clarity, energy dynamics, musicality, and performing qualities. Prerequisite: DANC 1145 or consent of instructor. 1 credit hour.

DANC 1147 Jazz Dance Technique I

Beginning jazz dance; practice in basic jazz movements including isolations, elementary jumps, and turns. Focus on the variety of jazz styles including: Funk, Lyrical, Musical Theatre, and Street Jazz. Includes participation in choreographed combinations and development of performing qualities. 1 credit hour.

DANC 1148 Jazz Dance Technique II

Intermediate jazz dance; further development of jazz dance style. Focus on movement dynamics, musicality and modes of expression. Attention to more complex movement combinations and composition development. Prerequisite: DANC 1147 or consent of instructor. 1 credit hour.

DANC 1151 Dance Performance I

Study of dance performance through the application of artistic process skills. In-depth experience in rehearsal and concert production process. Gain experience in working with a choreographer and performing in a variety of concert settings. Prerequisite: Audition. 1 credit hour.

DANC 1152 Dance Performance II

Continuation of DANC 1151. Prerequisite: Audition. 1 credit hour.

DANC 1201 Dance Composition

An exploration of choreographic tools with emphasis on design, dynamics, movement forms and stage space. Includes idea forming and shaping, structure, abstraction, phrasing and style. Emphasis on creative problem-solving skills, experiencing the artistic process skills as a choreographer and critic, utilizing choreographic devices, and transforming ideas into movement. Prerequisite: DANC 1101. 2 credit hours.

DANC 1212 Dance Practicum I

Practicum in dance with emphasis on choreography. Application of compositional skills and idea forming and shaping. Focus on choreographic designs and the rehearsal process. Prerequisite: Consent of instructor. 2 credit hours.

DANC 1213 Dance Practicum II

Continuation of DANC 1212. Practicum in dance with emphasis on choreography. Prerequisite: DANC 1212 and consent of instructor. 2 credit hours.

DANC 2141 Ballet Technique III

Intermediate/advanced ballet; a continuation of DANC 1142 with greater emphasis on expressive performance of classical ballet. Development of greater physical strength, stamina, and flexibility. Emphasis on experiencing and understanding the classical principles of ballet technique which include form, symmetry, balance, order, line, discipline, and control. Prerequisite: DANC 1142 or consent of instructor. 1 credit hour.

DANC 2142 Ballet Technique IV

Advanced ballet; a continuation of DANC 2141, introducing more complex elements of petit allegro, grande allegro, classical and contemporary ballet technique. Continued focus on developing and maintaining proper body alignment, rhythmic ability, and performance of ballet variations. Prerequisite: DANC 2141 or consent of instructor. 1 credit hour.

DANC 2145 Modern Dance Technique III

Intermediate/advanced modern dance, continued development of movement vocabulary with emphasis on processing increasingly complex material. Attention to focus, spatial clarity, energy dynamics, musicality and performing qualities. Continued focus on developing and maintaining proper body alignment, rhythmic ability, and performance of modern combinations. Prerequisite: DANC 1146 or consent of instructor. 1 credit hour.

DANC 2146 Modern Dance Technique IV

Advanced modern dance; continuation of DANC 2145, introducing more complex elements of classical and contemporary modern dance. Attention to improvisation, partnering and performing qualities.

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Continued focus on the integrated development of technique, perception, artistic expression, and aesthetic involvement. Prerequisite: DANC 2145 or consent of instructor. 1 credit hour.

DANC 2147 Jazz Dance Technique III

Intermediate/advanced jazz dance; further practice in jazz movements through advanced level jumps, turns, leaps, kicks, as well as the combination of these elements. Participation in choreographed routines utilizing complex rhythmic structures and movements in a variety of jazz styles. Prerequisite: DANC 1148 or consent of instructor. 1 credit hour.

DANC 2148 Jazz Dance Technique IV

Advanced jazz dance; continuation of DANC 2147 with emphasis on complex rhythmic structures and advanced jazz technique. Includes practice in jazz choreography. Prerequisite: DANC 2147 or consent of instructor. 1 credit hour.

DANC 2151 Dance Performance III

Continuation of DANC 1152. Prerequisite: Audition. 1 credit hour.

DANC 2152 Dance Performance IV

Continuation of DANC 2151. Prerequisite: Audition. 1 credit hour.

DANC 2212 Dance Practicum III

Practicum in dance with emphasis on choreography and the role of the choreographer in the dance making process. Focus on choreographic designs. Prerequisite: DANC 1213 and consent of instructor. 2 credit hours.

DANC 2213 Dance Practicum IV

Continuation of DANC 2212. Prerequisite: DANC 2212 and consent of instructor. 2 credit hours.

DANC 2303 Dance Appreciation

A course in the understanding of dance as an art form. Emphasis placed on the aesthetics of dance as a performing art. Students will discuss primitive, classical and contemporary dance and its interrelationship with cultural developments and other art forms. 3 credit hours.

DANC 2389 Academic Co-op Dance

Integrates on-campus study with practical hands-on work experience in dance. In conjunction with class seminars, the student will set specific goals and objectives in the study of dance. Contact the Cooperative Work Experience Office. 3 credit hours.

DFTG 1305 Technical Drafting

Introduction to the principles of drafting to include terminology and fundamentals, including size and shape descriptions, projection methods, geometric construction, sections, auxiliary views, and reproduction processes. Lab required. Prerequisite: DFTG 1309. 3 credit hours. (W)

DFTG 1309 Basic Computer-Aided Drafting

An introduction to computer-aided drafting. Emphasis is placed on setup; creating and modifying geometry; storing and retrieving predefined shapes; placing, rotating, and scaling objects, adding text and dimensions, using layers, coordinating systems; and plot/print to scale. Lab required. 3 credit hours. (W)

DFTG 1317 Architectural Drafting – Residential

Architectural drafting procedures, practices, and symbols. Preparation of detailed working drawings for residential structures. Emphasis on light frame construction methods. Lab required. Prerequisites: DFTG 1305 and DFTG 2319. 3 credit hours. (W)

DFTG 1321 Architectural Illustration

Architectural drawing and sketching, including freehand drawing, perspectives, delineation in various media and development of students' graphical expression, including an introduction to various reproduction methods. Lab required. Prerequisite: DFTG 1309. 3 credit hours. (W)

DFTG 1333 Mechanical Drafting

Detail drawings with proper dimensioning and tolerances, use of sectioning techniques, common fasteners, pictorial drawings including bill of materials. Lab required. Prerequisite: DFTG 1309. 3 credit hours. (W)

DFTG 1358 Electrical/Electronics Drafting

Electrical and electronic drawings stressing modern representation used for block diagrams, schematic diagrams, logic diagrams, wiring/assembly drawings, printed circuit board layouts, motor control diagrams, power distribution diagrams, and electrical one-line diagrams. Lab required. 3 credit hours. (W)

DFTG 1371 Mechanical Drafting – Fundamentals of Sheetmetal Design

Teaches the skills required in designing sheetmetal parts and assemblies, troubleshooting and creating production drawings. All functions needed to create sheetmetal parts, drawings and assemblies are taught in this course. The lesson modules are structured to maximize hands-on interaction with the Pro/Sheetmetal module in Pro/Engineer. Lab required. Prerequisite: DFTG 2340. 3 credit hours. (W)

DFTG 1373 3-D Studio Max

Formerly DFTG 1391 Special Topic: 3-D Studio Max

3-D Studio Max software will be used to teach modeling, material application, lighting, and rendering of 3-dimensional spaces. Some animation will be included. Basic commands and concepts will be covered which would apply to various fields. Lab required. 3 credit hours (W)

DFTG 1380 Cooperative Education – Drafting and Design Technology/Technician, General

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

DFTG 1391 Special Topics in Drafting and Design Technology/Technician, General

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Lab required. 3 credit hours. (W)

3-D Studio Max – Animation

This course will give the student experience in animation of objects, as well as fly-overs and walk-throughs of interiors and exteriors of buildings. Prerequisite: Consent of instructor.

Microstation

A beginning course in Computer-Aided Drafting using the Microstation software. Basic drawing and editing commands, manipulating files, and the drawing environment are covered in this course to broaden the students' exposure to other drafting software. Highly recommended for the student planning to be involved in the telecommunications field.

DFTG 1394 Special Topics in Electrical/Electronics Drafting and Electrical/Electronics CAD/CADD

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. 3 credit hours. (W)

Integrated Circuit Design Verification, Cell Libraries, and Mixed Signal Layout

A study of the principles of design of Integrated Circuit component library data bases, mixed signal layout guidelines, understanding component specifications, relationship of component libraries to integrated circuit layouts, and methods of verifying accuracy of database design. Lab required. Prerequisites: CETT 1325, CETT 1403, DFTG 2413, and DFTG 2433.

Parts Library Design

Parts libraries are used with printed circuit board design software such as Mentor/Veribest. New parts are constantly being produced making it necessary to update parts libraries often. Accurate library databases are required for successful printed circuit board design. Lab required. Prerequisites: DFTG 1358, DFTG 2305, and DFTG 2356 or consent of instructor.

Valor Enterprise Software

Creation and maintenance of CAD/CAM (Computer Aided Design/Computer-Aided Manufacturing) communication

channels using "intelligent file" transfer protocols that bi-directionally exchange embedded CAD/CAM "rules files" and "constraints" between the designer and the various manufacturing disciplines. Emphasis will be placed on DFM (Design for Manufacturability) and DFA (Design for Assembly), and DFT (Design for Test) analysis. Students will learn to use concurrent methodologies to seamlessly link CAD files to the CAM processes. Lab required. Prerequisites: DFTG 1358, DFTG 2305, and DFTG 2356 or consent of instructor.

DFTG 2300 Intermediate Architectural Drafting – Residential

Continued application of principles and practices used in residential construction. Lab required. Prerequisite: DFTG 1317. 3 credit hours. (W)

DFTG 2305 Printed Circuit Board Design

Course includes single-sided and double-sided printed circuit board design, emphasizing the drawings, standards, and processes required to lay out printed circuit board and manufacturing documentation. Lab required. Prerequisite: DFTG 1358. 3 credit hours. (W)

DFTG 2310 Structural Drafting

Discussion of detail drawings of structural shapes for fabrication with emphasis on framed and seated connectors and beam and column detailing. Designed to meet the standards of American Institute of Steel Construction, including units on concrete detailing conforming to American Concrete Institute standards. Lab required. Prerequisite: DFTG 1309. 3 credit hours. (W)

DFTG 2312 Technical Illustration and Presentation

Pictorial drawing including isometrics, obliques, perspectives, charts, and graphs. Emphasis on rendering and using different media. Lab required. Prerequisite: DFTG 2319. 3 credit hours. (W)

DFTG 2317 Descriptive Geometry

Graphical solutions to problems involving points, lines, and planes in space. Lab required. Prerequisite: DFTG 2319. 3 credit hours. (W)

DFTG 2319 Intermediate Computer-Aided Drafting

A continuation of practices and techniques used in basic computer-aided drafting emphasizing advanced dimensioning techniques, the development and use of prototype drawings, construction of pictorial drawings, construction of 3-dimensional drawings, interfacing 2-D and 3-D environments and extracting data. Lab required. Prerequisite: DFTG 1309. 3 credit hours. (W)

DFTG 2321 Topographical Drafting

Plotting of surveyors field notes. Includes drawing elevations, contour lines, plan and profiles, and laying out traverses. Lab required. Prerequisite: DFTG 1309. 3 credit hours. (W)

DFTG 2328 Architectural Drafting – Commercial

Architectural drafting procedures, practices, and symbols including the preparation of detailed working drawings for a commercial building, with emphasis on commercial construction methods. Lab required. Prerequisites: DFTG 1305 and DFTG 2319. 3 credit hours. (W)

DFTG 2332 Advanced Computer-Aided Drafting

Use of advanced techniques, including the use of a customized system and the principles of data manipulation for drawing production enhancement. Presentation of advanced drawing applications, such as three-dimensional solids modeling and linking graphic entities to external non-graphic data. Lab required. Prerequisite: DFTG 2319. 3 credit hours. (W)

DFTG 2335 Advanced Technologies in Mechanical Design and Drafting

Use parametric based mechanical design software (Pro/Engineer) for mechanical assembly design and drafting. In this course the student will learn how to create and fully detail a multi-view drawing and create reports to contain additional design documentation details. Drawings for both parts and assemblies will be addressed, with emphasis on view management and design details. Lab required. Prerequisite: DFTG 2340 or consent of instructor. 3 hours. (W)

DFTG 2336 Computer-Aided Drafting Programming

Use of programming language to enhance CAD software. Lab required. Prerequisite: DFTG 2319. 3 credit hours. (W)

DFTG 2340 Solid Modeling/Design Pro/Engineer

A computer-aided modeling course. Development of three-dimensional drawings and models from engineering sketches and orthographic drawings and utilization of three-dimensional models in design work. Lab required. Prerequisite: DFTG 2319. 3 credit hours. (W)

DFTG 2350 Geometric Dimensioning and Tolerancing

Geometric dimensioning and tolerancing, according to standards, application of various geometric dimensions and tolerances to production drawings. Lab required. Prerequisite: DFTG 1309. 3 credit hours. (W)

DFTG 2352 Mechanical and Electrical Systems

The properties of building materials (assemblies), specifications, codes, vendor references and uses of mechanical, plumbing, conveying, and electrical systems as related to architecture for residential and commercial construction. Lab required. Prerequisite: DFTG 1309. 3 credit hours. (W)

DFTG 2356 Advanced Printed Circuit Board Design

An advanced course including the layout of surface mounted components and integrated circuit modular design, emphasizing the design and drawing layouts required to produce surface mounted components and integrated circuit modular printed circuit boards. Lab required. Prerequisite: DFTG 2305. 3 credit hours. (W)

DFTG 2372 Intermediate Pro/Engineer

Formerly DFTG 1391 Special Topic: Intermediate Pro/Engineer
Pro/Engineer Release 2000 – Advanced sketched features, sweeps and blends, multi-trajectory sweeps, simplified reps by region and rule, tops down design, layout mode, skeletons, space chain parts, data manipulation and reuse, IGES and STEP transfers, Pro/Report and drawings, capstone project. Lab required. 3 credit hours. (W)

DFTG 2381 Cooperative Education – Drafting and Design Technology/Technician, General

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

DFTG 2413 Basic Integrated Circuit Design

The study of layout and design of integrated circuits. A lab-oriented course which concentrates on the layout design of Complementary Metal Oxide Semiconductor (CMOS) Digital Integrated Circuits. The course with cover CMOS circuits, basic digital layout building blocks, Metal Oxide Semiconductor (MOS) transistor theory, CMOS process technology, stick diagrams, layout techniques, and verification. Prerequisite: DFTG 1358. 4 credit hours. (W)

DFTG 2433 Advanced Integrated Circuit Design

Implementation of advanced techniques in the design of complex integrated circuits; projects require students to use multiple sets of design rules meeting industrial standards of current technologies. A lab-oriented course which concentrates on the layout design of Complementary Metal Oxide Semiconductor (CMOS) Analog Integrated Circuits. The course will cover CMOS Analog circuits, basic Analog layout building blocks, Bipolar transistor theory, CMOS process technology, stick diagrams, Analog layout techniques, and verification. Lab required. Prerequisite: DFTG 2413. 4 credit hours. (W)

DHYG 1123 Dental Hygiene Practice

Practice settings for the dental hygienist including office management, employment considerations, resume preparation, and job interviewing. Emphasis on the laws governing the practice of dentistry and dental hygiene, moral standards, and the ethical standards established by the dental hygiene profession. Prerequisites: DHYG 1227 and DHYG 1261. 1 credit hour. (W)

DHYG 1207 General and Dental Nutrition

General nutrition and nutritional biochemistry with emphasis on the effects of nutrition and dental health, diet, and application of counseling strategies. Prerequisite: DHYG 1331. 2 credit hours. (W)

DHYG 1215 Community Dentistry

The principles and concepts of community public health and dental health education emphasizing community assessment, educational planning, implementation, and evaluation, including methods and materials used in teaching dental health education in various community settings. Includes rotation schedule into the community (4 hours weekly). Prerequisites: DHYG 1227, DHYG 1261, and ENGL 1301. 2 credit hours (W)

DHYG 1227 Preventive Dental Hygiene Care

The dental hygienist in the dental health care system emphasizing the basic concepts of disease prevention and health promotion. Communication and behavior modification skills are presented to facilitate the role of the dental hygienist as an educator. Prerequisites: BIOL 2421 and DHYG 1301 and DHYG 1331. 2 credit hours. (W)

DHYG 1235 Pharmacology for the Dental Hygienist

Classes of drugs and their uses, actions, interactions, side effects, contraindications, and systemic and oral manifestations with emphasis on dental applications. Prerequisite: DHYG 1331. 2 credit hours. (W)

DHYG 1261 Clinical I – Dental Hygiene/Hygienist

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisites: BIOL 2421, DHYG 1301 and DHYG 1331. 2 credit hours. (W)

DHYG 1275 Community Dental Health Applications

This course provides an opportunity for students to apply the main concepts of community dental health in different populations and to develop an educational program for each specific group. Students will also learn the variances in the application of health education programs among different populations in order to successfully promote health and prevent diseases. Prerequisite: DHYG 1215. 2 credit hours. (W)

DHYG 1301 Orofacial Anatomy, Histology and Embryology

The histology and embryology of oral tissues, gross anatomy of the head and neck, tooth morphology, and individual tooth identification. Lab included. Prerequisites: BIOL 2401 and BIOL 2402, and CHEM 1405 or CHEM 1411. 3 credit hours. (W)

DHYG 1304 Dental Radiology

Radiation physics, biology, hygiene, and safety theories with an emphasis on the fundamentals of oral radiographic techniques and interpretation of radiographs. Includes exposure of intra-oral radiographs, quality assurance, radiographic interpretation, patient selection criteria, and other ancillary radiographic techniques. Lab included. Prerequisite: DHYG 1301. 3 credit hours. (W)

DHYG 1311 Periodontology

Normal and diseased periodontium including the structural, functional, and environmental factors. Emphasis on etiology, pathology, treatment modalities, and therapeutic and preventive periodontics in a contemporary practice setting. Prerequisites: DHYG 1227 and DHYG 1261. 3 credit hours. (W)

DHYG 1319 Dental Materials

Physical and chemical properties of dental materials including the application and manipulation of the various materials used in dentistry. Lab required. Prerequisites: CHEM 1405 or CHEM 1411, and DHYG 1311. 3 credit hours. (W)

DHYG 1331 Preclinical Dental Hygiene

Foundational knowledge for performing clinical skills on patients with emphasis on principles, procedures, and professionalism for performing comprehensive oral prophylaxis. Clinical laboratory included (6 hours week). Prerequisites: BIOL 2401 and BIOL 2402, and CHEM 1405 or CHEM 1411. 3 credit hours. (W)

DHYG 1339 General and Oral Pathology

Disturbances in human body development, diseases of the body, and disease prevention measures with emphasis on the oral cavity and associated structures. Prerequisites: DHYG 1227 and DHYG 1261. 3 credit hours. (W)

DHYG 1375 Strategies of Oral Medicine

This capstone course promotes the understanding of the interrelationship of knowledge gained throughout the dental hygiene curriculum. Presentation of case studies will emphasize the application of knowledge through development of critical thinking and problem solving skills. The student will integrate oral health knowledge with systemic disease and patient (client) well being. Commonly used drugs with dental implications will be discussed. 3 credit hours. (W)

DHYG 2201 Contemporary Dental Hygiene Care I

Dental hygiene care for the medically or dentally compromised patient with emphasis on supplemental instrumentation techniques. Prerequisites: DHYG 1227 and DHYG 1261. Corequisites: DHYG 1123 and DHYG 2361. 2 credit hours. (W)

DHYG 2231 Contemporary Dental Hygiene Care II

Dental hygiene care for the medically or dentally compromised patient with emphasis on advanced instrumentation techniques. Prerequisites: DHYG 1235 and DHYG 1261. 2 credit hours. (W)

DHYG 2361 Clinical II – Dental

Hygiene/Hygienist

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. A method of instruction providing detailed education, training and work-based experience and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. Onsite clinical instruction, supervision, evaluation, and placement are the responsibility of the college faculty. Clinical experiences are unpaid external learning experiences. Course may be repeated if topic and learning outcomes vary. Prerequisites: DHYG 1227 and DHYG 1261. Corequisites: DHYG 1123 and DHYG 2201. 3 credit hours. (W)

DHYG 2363 Clinical III – Dental

Hygiene/Hygienist

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisites: DHYG 1123, DHYG 2201, DHYG 2231, and DHYG 2361. 3 credit hours. (W)

DRAM 1120 Theatre Practicum – Performance

Practicum in theatre with emphasis on performance techniques and procedures, including a major performance role in a college production. May be combined with DRAM 1121 or repeated for a maximum total of 6 credit hours; flexible enrollment. Prerequisite: Consent of instructor. 1 credit hour.

Note: DRAM 1120, DRAM 1121, and DRAM 2120 may be repeated for a combined total of no more than 6 credits hours.

DRAM 1121 Theatre Practicum – Technical

Practicum in theatre with emphasis on theatre techniques and procedures, including major technical responsibilities in the production of a college play. May be combined with DRAM 1120 or repeated for a maximum total of 6 credit hours; flexible enrollment. Prerequisite: Consent of instructor. 1 credit hour.

Note: DRAM 1120, DRAM 1121, and DRAM 2120 may be repeated for a combined total of no more than 6 credits hours.

DRAM 1161 Musical Theatre Workshop I

Study and performance of works in the musical theatre repertoire. Prerequisite: Consent of instructor. 1 credit hour.

Note: May be taken as DRAM 1161 or MUSI 1159 but not both.

DRAM 1162 Musical Theatre Workshop II

A continuation of Music Theatre Workshop I. Developing advanced techniques in presenting works from the Musical Theatre repertoire. Prerequisite: DRAM 1161 or MUSI 1159. 1 credit hour.

Note: May be taken as DRAM 1162 or MUSI 2159 but not both.

DRAM 1310 Introduction to the Theatre

Various aspects of theatre are surveyed. Emphasis on types of plays, directing, acting, theatre history, and technical production. Lab required. 3 credit hours.

DRAM 1322 Stage Movement

An introductory study of the concepts of preparing and performing a role on stage with specific emphasis on the actor's physicality and stage movement. Lab required. 3 credit hours.

DRAM 1323 Basic Theatre Practice

An interactive practicum in theatre. Diverse topics of study will be offered on a rotating basis. Introduction to Directing has emphasis on directing technique and procedure, with experience gained through practical study. Introduction to Directing will be offered in the fall and/or spring semester. New York Field Studies, a course which introduces students first-hand to the performance and theory of the New York professional Theatre, will be offered during Summer II. Other topics of study will be offered periodically. This course may not be repeated for credit. Lab required. 3 credit hours.

DRAM 1330 Stagecraft I

Study and application of the visual aesthetics of design that may include the physical theatre, scenery construction and painting, properties, lighting, costumes, makeup, and backstage organizations. Lab required. 3 credit hours.

DRAM 1341 Theatrical Makeup

Study and application of visual aesthetics in theatrical makeup, including fundamentals of stage makeup, character makeup, corrective techniques, beards, mustaches, and three-dimensional makeup. Lab required. 3 credit hours.

DRAM 1342 Introduction to Costuming

Introduction to constructing costumes for theatrical productions. Students will gain an appreciation of the art of costuming and a sense of fashion history, and will understand how the costume fits into the total concept and production of the play. Lab required. 3 credit hours.

DRAM 1351 Acting I

Introduction to the art of acting including body control, voice, pantomime, interpretation, characterization, and stage movement. Lab required. 3 credit hours.

DRAM 1352 Acting II

Advanced acting, with emphasis on script analysis, complex characterization, ensemble acting and stylized acting in period plays. Lab required. Prerequisite: DRAM 1351 or consent of instructor. 3 credit hours.

DRAM 1370 Stage Management

Examines the art of stage managing a play production, including rehearsal preparations, performance responsibilities, and production process documentation. Includes intensive examination of the fundamental duty of a successful stage manager, coordinating and facilitating each of the in the theatrical process, to include performers, directors, designers, and technicians. Lab required. 3 credit hours.

DRAM 1373 Sound Design for the Theatre

An in-depth study of the concepts of designing and operating sound for a live theatrical production. Lab required. 3 credit hours.

DRAM 2120 Demonstration Lab

Scenes, techniques and problems studied in various theatre classes are demonstrated to show contrast and different styles. Guest lectures, demonstration, and projects in Acting and Directing may also be presented. Preparation and performance in the demonstration laboratory may be related to specific productions. Required for all Theatre majors. 1 credit hour.

Note: DRAM 1120, DRAM 1121, and DRAM 2120 may be repeated for a combined total of no more than 6 credits hours.

DRAM 2331 Stagecraft II

The advanced study and application of the visual aesthetics of design; which may include the physical theatre, scenery construction and painting, properties, sound and lighting. Lab required. Prerequisite: DRAM 1330 or consent of instructor. 3 credit hours.

DRAM 2336 Voice and Diction

Intensive work in the improvement of voice through exercises to develop resonance, range, flexibility, intensity, and control of voice. 3 credit hours.

DRAM 2351 Acting III: Improvisation

General introduction to the techniques, practice and performance of improvisational drama. Body control, voice, pantomime, characterization and stage movement are all included. Lab required. 3 credit hours.

DRAM 2352 Acting IV: Acting for Film and Television

Intensive examination of skills and techniques necessary for successful performances in film and television. Lab required. Prerequisite: DRAM 1351 or consent of instructor. 3 credit hours.

DRAM 2361 History of the Theatre I

An historical investigation of the theatre and dramatic literature from ancient Greece through 1800. 3 credit hours.

Note: Students may take this course and DRAM 2362 or DRAM 2363 for up to a total of 6 credit hours.

DRAM 2362 History of the Theatre II

An historical investigation of the theatre and dramatic literature from 1800 to the present. 3 credit hours.

Note: Students may take this course and DRAM 2361 or DRAM 2363 for up to a total of 6 credit hours.

DRAM 2363 History of Musical Theatre

Study of the forms and structures of the American musical theatre form its earliest forms through the present day. Lab required. 3 credit hours.

Note: Students may take this course and DRAM 2361 or DRAM 2362 for up to a total of 6 credit hours.

DRAM 2366 History of Film Making I

Investigates the history of motion pictures and its effect on our society as well as its contributions to our culture. Covers the period of 1890-1949. Emphasis on the cinema as an art form. Lab required. 3 credit hours.

DRAM 2367 History of Film Making II

Investigates the history of motion pictures and its effect on our society as well as its contributions to our culture. Covers the period of 1950-present. Emphasis on the cinema as an art form. Lab required. 3 credit hours.

DRAM 2370 Theatre Outreach

An in-depth study of the concepts of dramatic playwriting production and performance, combined with an intensive study of current issues in sociology. Students will research, write and produce plays which highlight and depict the social concerns of contemporary youths. Lab required. Prerequisite: Consent of instructor. 3 credit hours.

DRAM 2372 Survey of Contemporary American Dramatic Literature

The purpose of this course is to increase your understanding and critical awareness of American dramatic literature since the late 1940s. Through a comparative study of American dramatic literature published within the last 50 years, students will learn techniques for analyzing play structure in a manner vital for the director, designer, playwright, and performer. Students will read and discuss the works of such authors as O'Neill, Miller, Williams, Albee, Shepard, Mamet, and McNally, as well as the works of some authors who are not so well known. Lab required. 3 credit hours.

DRAM 2373 Costume Design II

The purpose of this course is to introduce the student to the costume design portion of costuming and to further the students knowledge of costume construction. This will be done through hands-on work, projects, and demonstrations. Lab required. Prerequisite: DRAM 1342 or consent of instructor. 3 credit hours.

DRAM 2374 Intermediate Makeup

A continuation of DRAM 1341. Students will study advanced techniques of stage makeup, character makeup, corrective techniques, beards, mustaches, prosthetics and three-dimensional makeup leading to the development of a portfolio. Lab required. Prerequisite: DRAM 1341 or consent of instructor. 3 credit hours.

DRAM 2375 Lighting Design

The mechanics and art of lighting for the stage; studies include the nature of light and optics, color, instrumentation, dimmers and elementary lighting design. Lab required. Prerequisite: DRAM 1330 or consent of instructor. 3 credit hours.

DRAM 2376 Stage Combat and Circus Skills

Development of advanced specialty skills and techniques of acting. The student will focus on the awareness and development of the mechanics of the body as a tool for the actor; with emphasis on stage fighting, circus skills, stage stunt work and on complex stage combat techniques and choreography. The course includes an instructional component, where the student will teach and/or direct staged fight scenes. Lab required. Prerequisite: Consent of instructor. 3 credit hours.

DRAM 2377 Shakespeare: Shakespeare on Stage (Acting Shakespeare)

Students will experience language as physical, exploring through exercises and scene work how to employ the meaning, music, and power of the language in the creation of living characters onstage, to engage the audience in the most dynamic Shakespeare possible. Lab required. 3 credit hours.

DRAM 2378 Shakespeare: World and Words (Shakespearean Text Analysis)

A back-to-basics exploration of the fundamental tool of Shakespeare acting the text from the actors point of view. What clues for the actor are in the words themselves? How are we meant to use devices such as the verse rhythm, the sounds of the language, and the word choices to bring the character to life, to discover the most dynamic performance of the scene, to excite thought and feeling in an audience. Lab required. 3 credit hours.

DRAM 2389 Academic Co-op Drama

Integrates on campus study with practical hands-on work experience in drama. In conjunction with class seminars, the student will set specific goals and objectives in the study of drama. Contact the Cooperative Work Experience Office. 3 credit hours.

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ECON 1301 Introduction to Economics

Introduction to the principles of economics, including economic behavior of consumers, businesses, and government agencies. Emphasis on economic decision making as used in daily life. 3 credit hours.

ECON 2301 Principles of Macroeconomics

Decision-making in the public sector; economic analysis of inflation, unemployment, and economic growth; national income measurements; money and banking; monetary and fiscal policy; competing economic theories; international economics. Prerequisites: MATH 0310 and ENGL 0305 or equivalent, or consent of instructor. 3 credit hours.

ECON 2302 Principles of Microeconomics

Decision-making in the private sector; markets and prices; demand and supply; consumer economics; production, costs and industrial organization; international economics; current topics. Prerequisites: MATH 0310 and ENGL 0305 or equivalent, or consent of instructor. 3 credit hours.

ECON 2389 Academic Co-op Economics

Integrates on-campus study with practical hands-on work experience in economics. In conjunction with class seminars, the student will set specific goals and objectives in the study of economics. Contact the Cooperative Work Experience Office. 3 credit hours.

EDUC 1301 Introduction to the Teaching Profession

An introduction and analysis of the culture of schooling and classrooms from the perspective of the teacher, the student and society. Includes information on degree requirements and testing for certification in Texas. Sixteen hours of field-based work in a PK-12 school is required. Lab required. 3 credit hours.

EDUC 2301 Introduction to Special Populations

An introduction to the special student populations found in PK-12 schools. The course will provide an overview of schooling and classrooms from the perspectives of language, gender, socioeconomic status, ethnic and academic diversity and equity with an emphasis on factors that facilitate learning. Sixteen hours of field-based work with special populations in a PK-12 school is required. Lab required. Prerequisite: EDUC 1301. 3 credit hours.

EECT 1191 Special Topics in Electrical, Electronic and Communications Engineering Technology/Technician

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. 1 credit hour. (W)

EECT 1291 Special Topics in Electrical, Electronic and Communications Engineering Technology/Technician

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. 2 credit hours. (W)

EECT 1300 Technical Customer Service

General principles of customer service within a technical environment. Topics include internal/external customer relationships, time management, best practices, and verbal and non-verbal communications skills. Lab required. 3 credit hours. (W)

EECT 1302 Introduction to Videoconferencing

An introduction to the videoconferencing protocol. Topics include imaging, display, and control equipment. Lab required. 3 credit hours. (W)

EECT 1303 Introduction to Telecommunications

An overview of the telecommunications industry. Topics include the history of the telecommunications industry, terminology, rules and regulations, and industry standards and protocols. Lab required. Prerequisite: Consent of instructor. 3 credit hours. (W)

EECT 1340 Telecommunications Transmission Media

Fundamentals of telecommunications media, including installation, maintenance, and troubleshooting. Topics address media characteristics and connectorization. Lab required. 3 credit hours. (W)

EECT 1344 Telecommunications Broadband Systems

A survey of telecommunications broadband transmissions systems including protocols, testing, applications, and safety practices. This course may be repeated for a total of 12 credit hours if the areas of emphasis vary. 3 credit hours. (W)

EECT 1346 Telecommunications Traffic Engineering

A study of telecommunications traffic management including blocking avoidance schemes, data collection, and analysis and reporting techniques. Lab required. 3 credit hours. (W)

EECT 1371 Voice-over-Internet Protocol

Voice over IP (VoIP) integrates voice and data transmission and is quickly becoming an important factor in network communications. It promises lower operational costs, greater flexibility, and a variety of enhanced applications. VoIP Fundamentals provides an introduction to the basic concepts of this new technology. This course will contain an overview of basic telephony fundamentals, an introduction to packet voice technologies, and an overview of the Internet Protocol (IP) along with other protocols and standards that define VoIP networks. The class will conduct case studies to support the curriculum and familiarize the student with VoIP system operations. Lab required. 3 credit hours. (W)

EECT 1380 Cooperative Education – Electrical, Electronic and Communications Engineering Technology/Technician

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

EECT 1381 Cooperative Education – Electrical, Electronic and Communications Engineering Technology/Technician

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

EECT 1391 Special Topics in Electrical, Electronic and Communications Engineering Technology/Technician

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. 3 credit hours. (W)

EECT 1407 Convergent Technologies – Convergence+

A study of telecommunications convergent technologies including telephone, LAN, WAN, wireless, voice, video, and internet protocol. Introduces the student to Voice, Video and Integrated data (VVID) over IP networks to provide seamless and secure communications solutions to business and home technology needs. This includes discussions on interoperability methods and techniques to integrate disparate systems and technologies, and includes people skills development. It prepares individuals to pass the Computing Technology Industry Association (CompTIA) Convergence+ certification exam. Lab required. 4 credit hours. (W)

EECT 1444 Telecommunications Broadband Systems

A survey of telecommunications broadband transmissions systems including protocols, testing, applications and safety practices. Lab required. 4 credit hours. (W)

EECT 1448 Digital Signal Processing (DSP)

A study of the architecture and applications of digital signal processors (DSP) including mathematical signal processing techniques. Lab required. 4 credit hours. (W)

EECT 1491 Special Topics in Electrical, Electronic and Communications Engineering Technology/Technician

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. 4 credit hours. (W)

EECT 2330 Telecommunications Switching

The operation of telecommunications switching equipment and related software. Topics include installation, testing, maintenance, and troubleshooting. Lab required. 3 credit hours. (W)

EECT 2332 Telecommunications Signaling

The study of signaling schemes in telecommunications. Topics include circuits and systems necessary to implement signaling protocols, conversions, and formats. Lab required. 3 credit hours. (W)

EECT 2337 Wireless Telephony Systems

Principles of wireless/cellular telephony systems to include call processing, hand-off, site analysis, antenna radiation patterns, commonly used test/maintenance equipment, and access protocol. This course may be repeated if the areas of emphasis vary. 3 credit hours. (W)

EECT 2340 Telecommunications Central Office Equipment

An examination of the theory, operation, and maintenance of central office telecommunications equipment. Lab required. 3 credit hours. (W)

EECT 2342 Telecommunications Private Branch Exchange PBX

An examination of the theory, operation, and maintenance of PBX telecommunications equipment. Lab required. 3 credit hours. (W)

EECT 2371 Case Study I: SOHO (Small Office Home Office)

Prepares individuals for a career as a Network Engineer in the Information Technology support industry. Includes the various responsibilities and tasks required for service engineer to successfully perform in a specific environment. Case Study I challenges the student to apply the network concepts learned in previous courses to a case-study based problem in a Small Office – Home Office environment. Lab required. Prerequisites: EECT 1407 and ITNW 2401. 3 credit hours. (W)

EECT 2372 Case Study II: Enterprise Network

Convergence Technology Case Study II prepares an individual for a career in the Information Technology support industry as a Network Engineer. The course includes various responsibilities and tasks required to successfully perform in a specific environment. Case Study II challenges the student to apply the network concepts learned in previous courses to a case-study-based problem in an Enterprise Network. Lab required. Prerequisites: EECT 1371, EECT 2371, and ITNW 2404. 3 credit hours. (W)

EECT 2374 Advanced Wireless

In-depth coverage of enterprise WLAN security including implementing VLAN and 802.1x type security. Design WLAN networking using site survey techniques. In-depth study of Emerging technologies including: Ultra-Wideband Wireless, VoIP, Mobile

Wireless technologies that define VoIP networks. The class will conduct case studies to support the curriculum and familiarize the student with VoIP system operations. Lab required. Prerequisite: EECT 2437. 3 credit hours. (W)

EECT 2433 Telephone Systems

A study of installation and maintenance systems including telephone set, public switched networks, local exchanges, networks, two- and four-wire systems, tip and ringing requirements, and digital transmission techniques. Lab required. 4 credit hours. (W)

EECT 2435 Telecommunications

A study of modern telecommunications systems incorporating microwave, satellite, optical, and wire/cable-based communications systems. Instruction in installation, testing, and maintenance of communications systems components. Lab required. Prerequisite: EECT 2439 or consent of instructor. 4 credit hours. (W)

EECT 2437 Wireless Telephony Systems

Principles of wireless/cellular telephony systems to include call processing, hand-off, site analysis, antenna radiation patterns, commonly used test/maintenance equipment, and access protocol. Lab required. 4 credit hours. (W)

EECT 2439 Communications Circuits

A study of communications systems with emphasis on amplitude modulation, frequency modulation, phase modulation, and digital pulse modulation. Discussion of several types of modulators, demodulators, receivers, transmitters, and transceivers. Lab required. Prerequisite: CETT 1409. 4 credit hours. (W)

ELMT 1301 Programmable Logic Controllers

An introduction to programmable logic controllers as used in industrial environments including basic concepts, programming, applications, troubleshooting of ladder logic, and interfacing of equipment. Lab required. 3 credit hours. (W)

ELMT 1405 Basic Fluid Power

Basic fluid power course including pneumatics, vacuum and hydraulics; symbols, theory, components, and basic electrical controls. Lab required. 4 credit hours. (W)

ELMT 2435 Certified Electronics Technician Training

Review of electronics concepts and principles in preparation for sitting for a certification examination administered by an outside organization or agency. Lab required. 4 credit hours. (W)

ELMT 2437 Electronic Troubleshooting, Service and Repair

In-depth coverage of electronic systems, maintenance, troubleshooting, and repair. Topics include symptom identification, proper repair procedure, repair checkout, and preventative maintenance. Emphasis

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on safety and proper use of test equipment. May be offered as a capstone course. Lab required. 4 credit hours. (W)

EMSP 1160 Clinical – Emergency Medical Technology/Technician – Basic

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. 1 credit hour. (W)

EMSP 1161 Clinical – Advanced I

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. 1 credit hour. (W)

EMSP 1162 Clinical – Advanced II

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. 1 credit hour. (W)

EMSP 1205 Emergency Care Attendant

First responder course in emergency medical care. Emphasis on requirements of national and state accrediting agencies. 2 credit hours. (W)

EMSP 1338 Introduction to Advanced Practice

An exploration of the foundations necessary for mastery of the advanced topics of clinical practice out of the hospital. 3 credit hours. (W)

EMSP 1355 Trauma Management

A detailed study of the knowledge and skills in the assessment and management of patients with traumatic injuries. 3 credit hours. (W)

EMSP 1356 Patient Assessment and Airway Management

A detailed study of the knowledge and skills required to perform patient assessment and airway management. 3 credit hours. (W)

EMSP 1401 Emergency Medical Technician – Basic

Introduction to the level of Emergency Medical Technician (EMT) - Basic. Includes all the skills necessary to provide emergency medical care at a basic life support level with an ambulance service or other specialized services. 4 credit hours. (W)

EMSP 2135 Advanced Cardiac Life Support

Skill development for professional personnel practicing in critical care units, emergency departments, and paramedic ambulances. Establishes a system of protocols for management of the patient experiencing cardiac difficulties. 1 credit hour. (W)

EMSP 2237 Emergency Procedures

Instruction in a laboratory environment concentrating on development of practical medical skills and critical thinking abilities. Students will master a variety of skills appropriate to their training level by a combination of practice; use mannequins, actors or other students, and stage scenarios. Required verifications of specific skills may be included. 2 credit hours. (W)

EMSP 2243 Assessment Based Management

The capstone course of the EMSP program. Designed to provide for teaching and evaluating comprehensive, assessment-based patient care management. 2 credit hours. (W)

EMSP 2260 Clinical – Advanced III

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. 2 credit hours. (W)

EMSP 2330 Special Populations

A detailed study of the knowledge and skills necessary to reach competence in the assessment and management of ill or injured patients in nontraditional populations. 3 credit hours. (W)

EMSP 2338 EMS Operations

A detailed study of the knowledge and skills to safely manage the scene of an emergency. 3 credit hours. (W)

EMSP 2434 Medical Emergencies

A detailed study of the knowledge and skills in the assessment and management of patients with medical emergencies. 4 credit hours. (W)

EMSP 2444 Cardiology

A detailed study of the knowledge and skills in the assessment and management of patients with cardiac emergencies. 4 credit hours. (W)

EMSP 2563 Clinical – Advanced IV

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. 5 credit hours. (W)

ENGL 0300 Developmental Writing I

A skills improvement course designed to help students improve basic writing skills necessary for ENGL 1301. Focus is on paragraph and short essay writing. Basic grammar, punctuation, and sentence construction studied as needed. Lab included. Prerequisite: Assessment. 3 credit hours.

Note: May not be used to satisfy the requirements of an associate degree. ENGL 0300, ENGL 0305, ENGL 0310, and ENGL 0315 may be taken for a combined total of no more than 9 credit hours.

ENGL 0305 Developmental Writing II

A skills improvement course designed to help students reach competencies necessary for ENGL 1301. Focus is on advanced paragraph development and medium length essay writing. Emphasis on critical reading skills, analytical writing, and vocabulary building. Punctuation and sentence construction studied as needed. Lab included. Prerequisite: ENGL 0300 or assessment. 3 credit hours.

Note: May not be used to satisfy the requirements of an associate degree. ENGL 0300, ENGL 0305, ENGL 0310, and ENGL 0315 may be taken for a combined total of no more than 9 credit hours.

ENGL 0310 Developmental Grammar I

A skills improvement course designed to help students strengthen the sentence for clearer, more emphatic, more concise expression of thought. Focus is on all facets of standard written English: correct grammar, punctuation, and usage. Teaches the student to recognize and correct common errors in sentence structure. May be taken concurrently with any English course. Lab included. 3 credit hours.

Note: May not be used to satisfy the requirements of an associate degree. ENGL 0300, ENGL 0305, ENGL 0310, and ENGL 0315 may be taken for a combined total of no more than 9 credit hours.

ENGL 0315 Writing, Reading, and Reasoning

A skills improvement course designed to help students reach competencies necessary for ENGL 1301. Focuses on reading and writing medium length expository essays, with special emphasis on writing about issues arising from class readings. Students will learn to write effective, logical essays, to develop reading comprehension strategies, and to analyze, synthesize, and make value judgments using critical thinking. Lab included. Prerequisite: ENGL 0305 or assessment. 3 credit hours.

Note: May not be used to satisfy the requirements of an associate degree. ENGL 0300, ENGL 0305, ENGL 0310, and ENGL 0315 may be taken for a combined total of no more than 9 credit hours.

ENGL 1301 Composition/Rhetoric I

Expository writing, development of paragraphs and the whole composition, study of model essays, extensive theme writing, individual conferences, and departmental final exam. Assessment required prior to enrollment. Lab required. 3 credit hours.

ENGL 1302 Composition/Rhetoric II

Continued development of writing skills and development of critical thinking skills in argumentation, analysis and interpretation of various types of literature, extensive reading and writing, MLA documentation, study of research methods and materials, and preparation of research paper. Lab required. Prerequisite: ENGL 1301. 3 credit hours.

ENGL 2307 Creative Writing I

Practical experience in the techniques of imaginative writing. In this course, emphasis will be on the writing of fiction or non-fiction. Each student will study selected literary works to improve critical reading

toward the goal of improving creative writing. This course does not satisfy the college requirements for a sophomore literature course. Prerequisite: ENGL 1302. 3 credit hours.

ENGL 2308 Creative Writing II

Practical experience in the techniques of imaginative writing. In this course, emphasis will be on the writing of poetry or drama. Each student will study selected literary works to improve critical reading toward the goal of improving creative writing. This course does not satisfy the college requirements for a sophomore literature course. Prerequisite: ENGL 1302. 3 credit hours.

ENGL 2311 Technical and Business Writing

Introduction to technical writing and communications including preparation of reports, proposals, technical papers, abstracts, and summaries of specific technical interest to the student. Prerequisite: ENGL 1302. 3 credit hours.

Note: Students in certain technical programs may be admitted to this course with a prerequisite of ENGL 1301 and consent of dean and English department chair.

ENGL 2322 British Literature I

Survey of major works in British literature from its origin to the beginning of the Romantic Movement. Analysis of these works in their historical, cultural, and social contexts. Prerequisite: ENGL 1302 or ENGL 2311. 3 credit hours.

ENGL 2323 British Literature II

Survey of major works in British literature from the Romantic period to the present. Analysis of these works in their historical, cultural, and social contexts. Prerequisite: ENGL 1302 or ENGL 2311. 3 credit hours.

ENGL 2327 American Literature I

Study of major writers from the Colonial period to the beginning of the Civil War. Analysis and evaluation of these works in their historical, cultural, and social contexts. Prerequisite: ENGL 1302 or ENGL 2311. 3 credit hours.

ENGL 2328 American Literature II

Study of major writers from the Realistic Movement to the present. Analysis and evaluation of these works in their historical, cultural, and social contexts. Prerequisite: ENGL 1302 or ENGL 2311. 3 credit hours.

ENGL 2332 World Literature I

Study of literature from the classical Greek period through the 16th century. Analysis and evaluation of literary works in the historical, cultural, and social contexts. Prerequisite: ENGL 1302 or ENGL 2311. 3 credit hours.

ENGL 2333 World Literature II

Study of literature from the 17th century through the 20th century. Analysis and evaluation of literary works in the historical, cultural, and social contexts. Prerequisite: ENGL 1302 or ENGL 2311. 3 credit hours.

ENGL 2342 Introduction to Literature I – Short Story and Novel

Study of short stories, novels, and non-fiction. Analysis and evaluation of major writers, their techniques, and their contributions to our literary heritage. Prerequisite: ENGL 1302 or ENGL 2311. 3 credit hours.

ENGL 2343 Introduction to Literature II – Poetry and Drama

Study of poetry and drama and of mythology as it relates to these genres. Analysis of our classical heritage, origins of drama, development of contemporary drama and film, and elements and types of poetry. Prerequisite: ENGL 1302 or ENGL 2311. 3 credit hours.

ENGL 2389 Academic Co-op English

Integrates on-campus study with practical hands-on work experience in English. In conjunction with class seminars, the student will set specific goals and objectives in the study of English. Contact the Cooperative Work Experience Office. 3 credit hours.

ENGR 1201 Introduction to Engineering

Introduction to engineering as a discipline and a profession. Includes instruction in the application of mathematical and scientific principles to the solution of practical problems for the benefit of society. 2 credit hours.

ENGR 1304 Engineering Graphics

Use of computer-aided drafting, applied geometry, engineering lettering, orthographic projections, dimensioning, pictorial drawing and sketching, sectional views, and working drawings. Lab required. Prerequisite: DFTG 1309 or consent of instructor. 3 credit hours.

ENGR 2301 Engineering Mechanics I

Calculus-based study of composition and resolution of forces, equilibrium of force systems, friction, centroids, and moments of inertia. Prerequisite: MATH 2413. 3 credit hours.

ENGR 2302 Engineering Mechanics II

Calculus-based study of dynamics of rigid bodies, force-mass-acceleration, work-energy, and impulse-momentum computation. Prerequisite: ENGR 2301. 3 credit hours.

ENGR 2305 Circuits I for Electrical Engineering

Basic principles of R, L, and C circuits; steady-state DC and AC signals; simple transient response. Includes Kirchoff's laws, Ohm's law, and Thevenin-Norton equivalence; impedance; nodal, mesh, and loop analysis; and phasors. Laboratory experiments demonstrate basic circuit and network laws and acquaint students with electrical instruments. Lab required. Prerequisites: MATH 2413, MATH 2414, and MATH 2415. Corequisite: MATH 2320. 3 credit hours.

ENGR 2332 Materials and Processes

Simple structural elements with emphasis on forces, deformation, and material properties. Includes concepts of stress, strain, and elastic

properties. Behavior phenomena such as fracture, fatigue, and creep are introduced. Prerequisite: ENGR 2301. 3 credit hours.

ENGT 1401 Circuit Analysis I

Fundamental concepts of electrical science covering potential, current and power in DC circuits. Fundamental laws and relationships applied to the analysis of circuits and networks: capacitance, inductance and magnetism; single-frequency concepts; the use of computer software in design and analysis of circuits. Lab required. Prerequisite/corequisite: MATH 2412. 4 credit hours.

ENGT 1402 Circuit Analysis II

Complex AC circuit analysis. Network theorems, transient analysis, resonance, filters, AC power and three-phase circuits are covered in detail. Applications of computer-assisted solutions are continued. Lab required. Prerequisite: ENGT 1401. Prerequisite/corequisite: MATH 2413. 4 credit hours.

ENGT 1407 Digital Fundamentals

Digital logic circuits and techniques. Analysis, design and simulation of combinational and sequential systems using: classical Boolean algebra techniques, laboratory hardware experiments and computer simulation. Introduction to programmable logic devices (PLDs) and application-specific integrated circuits using software tools for the design and analysis of digital logic circuits and systems. Lab required. Prerequisite: COSC 1436 or equivalent. 4 credit hours.

ENTC 1380 Cooperative Education – Engineering Technology, General

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

ENTC 2380 Cooperative Education – Engineering Technology, General

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. Prerequisite: ENTC 1380. 3 credit hours. (W)

ENVR 1401 Environmental Science I

Interdisciplinary study of both natural (biology, chemistry, geology) and social (economics, politics, ethics) sciences as they apply to the environment. Focus on current global concerns, including global warming, overpopulation, deforestation, pollution, biodiversity, and resource use. Practical laboratory experience emphasizes the application of fundamental principles of biology and chemistry as well as critical thinking and analysis. Lab required. 4 credit hours.

ENVR 1402 Environmental Science II

Continued interdisciplinary study of both natural (biology, chemistry, geology) and social (economics, politics, ethics) sciences as they apply to the environment. Focus on energy issues, global warming, ozone loss, land use, conservation and management, deforestation, biodiversity, the history of environmental law and regulation and local environmental problems. Lab required. Prerequisite: ENVR 1401. 4 credit hours.

ESLC 0305 ESL Listening and Speaking: Intermediate

Emphasis on developing non-native speakers' intermediate listening and speaking skills to facilitate natural communication. Oral skills are developed through individual presentations and interactions in dyads, and in small and large groups. Aural skills are developed through classroom interaction, outside assignments, and video and audio clips designed to enhance non-native speakers' skills in understanding both formal and informal speech styles of English. Focus is given to students' spoken grammar, pronunciation, vocabulary, and exposure to North American culture. Prerequisite: Assessment. 3 credit hours

Note: May not be used to satisfy the requirement for an associate degree.

ESLC 0310 ESL Listening and Speaking: Advanced

Emphasis on developing non-native speakers' advanced oral communication and listening competencies. Students practice natural communication regarding abstract concepts in classroom activities by working in dyads and in small and large groups while formal speaking skills are focused upon through delivery of oral presentations. Students participate in advanced level listening activities through interaction both in and out of the classroom and the use of video and audio tapes. Focus is given to students' spoken grammar, pronunciation, vocabulary and exposure to North American culture. Prerequisite: ESLC 0305 or assessment. 3 credit hours.

Note: May not be used to satisfy the requirement for an associate degree.

ESLC 0320 ESL Pronunciation and Accent Reduction

Emphasis on teaching aspects of spoken English, including stress and intonation, individual phonemes, and awareness of connected and reduced speech. Addresses pronunciation problems of specific language groups. Attention to productive and receptive skills is facilitated through classroom activities, student work in dyads and small and large groups, audio and video taping, and individualized feedback of instructor. Prerequisite: ESLC 0305, assessment, or instructor consent. 3 credit hours.

Note: May not be used to satisfy the requirement for an associate degree.

ESLG 0305 ESL Grammar: Intermediate I

Instruction for non-native speakers of English in all verb tenses (to include past, present, future in simple progressive and perfective forms), passive voice, and modals. Course content supports ESLW 0305 objectives for grammar usage. Prerequisite: Assessment. 3 credit hours. *Note: May not be used to satisfy the requirement for an associate degree.*

ESLG 0310 ESL Grammar: Intermediate II

A high-intermediate English grammar course designed for non-native speakers of English for instruction in conditionals, gerunds, infinitives, and prepositions. Course content supports ESLW 0310 objectives for grammar usage. Prerequisite: ESLG 0305 or assessment. 3 credit hours. *Note: May not be used to satisfy the requirement for an associate degree.*

ESLG 0315 ESL Grammar: Advanced

An advanced English grammar course designed for non-native speakers of English and focused on noun clauses, adjective clauses, adverb clauses, and adverbial phrases. Course content supports ESLW 0315 objectives for grammar usage and successful transition into English 1301. Prerequisite: ESLG 0310 or assessment. Corequisite: ESLW 0315. 3 credit hours.

Note: May not be used to satisfy the requirement for an associate degree.

ESLR 0305 ESL Reading: Intermediate I

Instruction in intermediate reading comprehension for non-native speakers who score 60-74 on the Compass/ESL Test. Focuses on teaching students with lower level speaking and listening skills to identify topics, main ideas, and supporting details in simplified academic and literary texts. Prerequisite: Assessment. 3 credit hours.

Note: May not be used to satisfy the requirement for an associate degree. ESLR 0305, ESLR 0310, ESLR 0315, and ESLV 0305 may be taken for a combined total of no more than 9 credit hours.

ESLR 0310 ESL Reading: Intermediate II

Instruction in high-intermediate reading comprehension for non-native speakers who score 75-84 on the Compass/ESL Test. Focuses on teaching vernacular vocabulary and syntax in the informal register, context clues, topics, main ideas, supporting details, transitions, and organizational patterns for improving comprehension of abridged academic and literary texts. Prerequisite: ESLR 0305 or assessment. 3 credit hours.

Note: May not be used to satisfy the requirement for an associate degree. ESLR 0305, ESLR 0310, ESLR 0315, and ESLV 0305 may be taken for a combined total of no more than 9 credit hours.

ESLR 0315 ESL Reading: Advanced

Instruction in advanced reading comprehension to prepare non-native students for admission to reading-restrictive classes. To enroll, students must score 85-95 on the Compass/ESL Test. ESLR 0315 focuses on cultural allusions, connotation of vocabulary, augmentation of reading

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rate for non-native speakers, implied main ideas, facts and opinion, inferences and conclusions, author's purpose, tone, point of view, vocabulary, and graphic aids in unabridged academic texts. Prerequisite: ESLR 0310 or assessment. 3 credit hours.

Note: May not be used to satisfy the requirement for an associate degree. ESLR 0305, ESLR 0310, ESLR 0315, and ESLV 0305 may be taken for a combined total of no more than 9 credit hours.

ESLV 0305 ESL Vocabulary: Idioms

Instruction in idiomatic American English for second language learners. Increases familiarity with idiomatic English to facilitate comprehension and productive use of idioms in spoken and written discourse. Prerequisites: ESLC 0305 and ESLR 0305, or instructor or department chair consent, or assessment. 3 credit hours.

Note: May not be used to satisfy the requirement for an associate degree. ESLR 0305, ESLR 0310, ESLR 0315, and ESLV 0305 may be taken for a combined total of no more than 9 credit hours.

ESLW 0305 ESL Writing: Intermediate I

Instruction in intermediate writing skills for non-native speakers. Focuses on sentence-level writing and paragraph development. Introduces students to pre-academic, experiential writing. Trains students to develop and organize ideas in description and process modes. Prerequisite: Assessment. 3 credit hours.

Note: May not be used to satisfy the requirement for an associate degree.

ESLW 0310 ESL Writing: Intermediate II

Instruction in high-intermediate writing skills for non-native speakers. Focuses on multi-paragraph essays. Introduces students to academic writing. Trains students to develop and organize ideas in narrative and comparison/contrast modes. Prerequisites: ESLG 0305 and ESLW 0305, or assessment. 3 credit hours.

Note: May not be used to satisfy the requirement for an associate degree.

ESLW 0315 ESL Writing: Advanced

Instruction in advanced essay writing designed to prepare non-native students to enter ENGL 1301. Trains students to write academically acceptable papers in various rhetorical modes with a primary focus on argumentation. Focuses on mechanics of writing, common problems that ESL speakers encounter, research, and documentation. Prerequisites: ESLG 0310 and ESLW 0310, or assessment. Corequisite: ESLG 0315. 3 credit hours.

Note: May not be used to satisfy the requirement for an associate degree.

f

FIRS 1301 Firefighter Certification I

Firefighter safety and development. Includes Texas Commission on Fire Protection Rules and Regulations, firefighter safety, fire science, personal protective equipment, self contained breathing apparatus, and fire reports and records. Lab required. 3 credit hours. (W)

FIRS 1313 Firefighter Certification III

Fire streams and pump operations as they relate to fundamental development of basic firefighter skills. Lab required. Prerequisite: FIRS 1407 and college entrance level math skills. 3 credit hours. (W)

FIRS 1319 Firefighter Certification IV

Equipment, tactics, and procedures used in forcible entry, ventilation, salvage, and overhaul. Preparation for certification as a basic firefighter. Lab required. Prerequisite: FIRS 1313. 3 credit hours. (W)

FIRS 1323 Firefighter Certification V

Ropes and knots, rescue procedures and techniques, and hazardous materials. Preparation for certification as a basic firefighter. Lab required. Prerequisite: FIRS 1319. 3 credit hours. (W)

FIRS 1329 Firefighter Certification VI

Fire inspection techniques and practices. Emphasis on fire cause determination. Includes fire protection systems, wild land fire, and pre-incident planning. Preparation for certification as a basic firefighter. Lab required. Prerequisite: FIRS 1323 and college entrance level math skills. 3 credit hours. (W)

FIRS 1407 Firefighter Certification II

Basic principles and skill development in handling fire service hose and ladders. Includes the distribution system of water supply, basic building construction, and emergency service communication, procedures, and equipment. Lab required. Prerequisite: FIRS 1301. 4 credit hours. (W)

FIRS 1433 Firefighter Certification VII

Simulated emergency operations and hands-on live fire training exercises, incident management procedures, and combined operations using proper extinguishing methods. Emphasis on safety. Prerequisite: FIRS 1329. 4 credit hours. (W)

FIRT 1301 Fundamentals of Fire Protection

Overview to fire protection, career opportunities in fire protection and related fields, philosophy and history of fire protection/service, fire loss analysis, organization and function of public and private fire protection services, fire departments as part of local governments, laws and regulations affecting the fire service, fire service nomenclature, specific fire protection functions, and basic fire chemistry and physics. Includes introduction to fire protection systems and introduction to fire strategy and tactics. 3 credit hours. (W)

FIRT 1303 Fire and Arson Investigation I

In-depth study of basic fire and arson investigation practices. Emphasis on fire behavior principles related to fire cause and origin determination. Lab recommended. Prerequisite: FIRT 1301 or consent of Fire Science Program Director. 3 credit hours. (W)

FIRT 1305 Public Education Programs

Preparation of firefighters and fire officers to develop public fire safety

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awareness. Emphasis on implementation of fire and public safety programs in an effort to reduce the loss of life. Lab recommended. 3 credit hours. (W)

FIRT 1307 Fire Prevention Codes and Inspections

Study of local building and fire prevention codes. Emphasis on fire prevention inspections, practices, and procedures. Lab recommended. 3 credit hours. (W)

FIRT 1309 Fire Administration I

Introduction to the organization and management of a fire department and the relationship of government agencies to the fire service. Emphasis on fire service leadership from the perspective of the company officer. Prerequisite: FIRT 1301 or consent of the Fire Science Program Director. 3 credit hours. (W)

FIRT 1315 Hazardous Materials I

Study of the chemical characteristics and behavior of various materials. Topics include storage, transportation, handling hazardous emergency situations, and the most effective methods of hazard mitigation. Lab recommended. Prerequisite: FIRT 1301 or consent of Fire Science Program Director. 3 credit hours. (W)

FIRT 1329 Building Codes and Construction

Examination of building codes and requirements, construction types, and building materials. Topics include walls, floorings, foundations, and various roof types and the associated dangers of each. 3 credit hours. (W)

FIRT 1331 Firefighting Strategies and Tactics I

Analysis of the nature of fire problems and selection of initial strategies and tactics including an in-depth study of efficient and effective use of manpower and equipment to mitigate the emergency. Prerequisite: FIRT 1301 or consent of Fire Science program director. 3 credit hours. (W)

FIRT 1338 Fire Protection Systems

Design and operation of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection, and portable fire extinguishers. Lab required. Prerequisite: FIRT 1301 or consent of Fire Science program director. 3 credit hours. (W)

FIRT 1345 Hazardous Materials II

In-depth study of mitigation practices and techniques to effectively control hazardous material spills and leaks. Lab recommended. Prerequisite: FIRT 1315. 3 credit hours. (W)

FIRT 1347 Industrial Fire Protection

Study of industrial emergency response teams and specific concerns related to business and industrial facilities. 3 credit hours. (W)

FIRT 1349 Fire Administration II

In-depth study of fire service management as pertaining to budgetary requirements, administration, organization of divisions within the fire service, and relationships between the fire service and outside agencies. Capstone course for students pursuing an AAS in Fire Science with the Fire Officer Specialization. Prerequisite: FIRT 1301 or consent of Fire Science program director. 3 credit hours. (W)

FIRT 1355 Methods of Teaching

Preparation of public safety personnel to effectively teach technical skills, techniques, and information. 3 credit hours. (W)

FIRT 2351 Company Fire Officer

A capstone course covering fire ground operations and supervisory practices. Includes performance evaluation of incident commander, safety officer, public information officer, and shift supervisor duties. Prerequisites: FIRT 1303, FIRT 1307, FIRT 1309, FIRT 1331, FIRT 1349, and FIRT 1355. 3 credit hours. (W)

FLMC 1301 History of Animation

The evolution of 2-D and 3-D animations. This class teaches students traditional forms of animation including cell, stop-motion and zoetropes. Students will also learn the history and evolution of the animation art form. Students will produce original animations utilizing traditional techniques as projects. 3 credit hours. (W)

FLMC 1331 Computers in Video Production I

Applications of computers to digital film production. Design of computer graphic workstations and development of a rationale for selecting software, hardware, and peripherals. Lab required. Prerequisites: ARTC 1302 and ARTC 1353. 3 credit hours. (W)

FLMC 1392 Special Topics in Film – Video Making/Cinematography and Production

Topics address recently identified current events, skills, knowledges, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. 3 credit hours. (W)

FLMC 2331 Computers in Video Production II

Applications of computers to production. Vector and raster graphics; rendering techniques; the design and production of three-dimensional materials; and the selection of hardware, software, and peripherals for the configuration of a studio. Lab required. Prerequisite: ARTC 2372 and FLMC 1331, or consent of instructor. 3 credit hours. (W)

FLMC 2340 Portfolio Development for Filmmakers

Formerly FLMC 2379

Preparation of a portfolio suitable for employment in the film industry. Includes evaluation and demonstration of portfolio presentation methods based on specific area of study. Lab required. Prerequisite: Consent of instructor or department chair. 3 credit hours. (W)

FREN 1100 French Conversation I

Intensive practice in spoken French. Prerequisite: FREN 1412 or consent of department chair. Corequisite: FREN 2311. 1 credit hour.

FREN 1110 French Conversation II

Continuation of FREN 1100. Prerequisite: FREN 1100. Corequisite: FREN 2312. 1 credit hour.

FREN 1411 Beginning French I

Introduction to the basic skills of speaking, reading, writing, and listening with attention to selected aspects of French culture; designed for students with little or no previous language training. Instruction is enhanced by the use of tapes, slides, and video cassettes. Must demonstrate by assessment or prerequisite course, placement in ENGL 1301. 4 credit hours.

FREN 1412 Beginning French II

Continuation of FREN 1411. Prerequisite: FREN 1411. 4 credit hours.

FREN 2303 French Literature I

Survey of French literature in its historical context from the 16th century through the 18th century. Continued practice in basic language skills. Reading of selected writers such as Ronsard, Moliere, and Voltaire. Prerequisite: FREN 2312. 3 credit hours.

FREN 2304 French Literature II

Survey of French literature in the 19th and 20th centuries with reading from representative writers such as Hugo, Baudelaire, and Camus. Prerequisite: FREN 2312. 3 credit hours.

FREN 2311 Intermediate French I

Continued development of the four basic language skills with increased attention to reading and writing. Instruction enhanced by slides, tapes, and other audio-visual aids. Prerequisite: FREN 1412 or consent of department chair. Corequisite: FREN 1100. 3 credit hours.

FREN 2312 Intermediate French II

Continuation of FREN 2311. Prerequisite: FREN 2311. Corequisite: FREN 1110. 3 credit hours.

g

GEOG 1301 Physical Geography

Exploration of the physical environment; emphasis on climates, land forms, vegetation, and spatial relationships of selected geographical regions of the world. 3 credit hours.

GEOG 1302 Cultural Geography

Examination of the cultural and economic environment; emphasis on origins, diffusion, and distribution of races, religions, and languages. 3 credit hours.

GEOG 1303 World Regional Geography

Study of major developed and developing regions with emphasis on awareness of prevailing world conditions and situations. Includes emerging conditions and trends and awareness of the diversity of ideas and practices to be found in those regions. May be used to meet three semester hours of social science elective requirement for education certification in public school teaching. 3 credit hours.

GEOL 1305 Natural Disasters

Understanding the causes and effects of natural disasters such as earthquakes, volcanic eruptions, landslides, floods, land subsidence, coastal hazards, etc., and what we can do to mitigate, predict, control, and prevent these catastrophic events. 3 credit hours.

Note: Students may take this course or GEOL 1405 for credit but not both.

GEOL 1346 Planetary Geology

A survey of solar system objects (planets, moon, and asteroids) and their geologic evolution, surfaces, interiors, and atmospheres and the methods used to study them; current space missions and the search for life beyond Earth are examined. 3 credit hours.

GEOL 1401 Earth Science

For the non-science major. Introduces the concepts of earth processes and their relation to man, including basic principles from physical and historical geology, oceanography, and meteorology. Lab required. 4 credit hours.

GEOL 1402 Dinosaurs!

Examines evolution, ecology, and extinction of the dinosaurs from a physical and historical geology perspective. Comparative anatomy is emphasized. Dinosaur controversies will be examined in light of recent evidence. Field trips and class projects will focus on dinosaur families and habitats. Lab required. 4 credit hours.

GEOL 1403 Physical Geology

A basic geology course covering a variety of topics: rocks and minerals, weathering and soils, rivers, sea coasts and ocean floors, deserts, volcanism, plate tectonics, mountain building, earthquakes and topographic maps. Lab required. 4 credit hours.

GEOL 1404 Historical Geology

An introduction to the earth and its inhabitants as revealed in rocks and fossils. Brief survey of the plant and animal kingdoms, elementary principles of stratigraphy, and a systematic study of the development of the earth from its origin as a planet to the present. Lab required. Prerequisite: GEOL 1401 or GEOL 1403. 4 credit hours.

GEOL 1405 Earth Habitat

Study of geologic constraints upon human activities and the environmental consequences of such activities. Includes mass movements, flooding, earthquakes, and volcanic hazards. Emphasis on the environmental aspects of the development of water, energy, and

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mineral resources. Lab required. Prerequisite: GEOL 1403 or consent of instructor. 4 credit hours.

Note: Students may take this course or GEOL 1305 for credit but not both.

GEOL 1445 Oceanography

History of marine science including navigation and formation of the ocean and atmosphere. Processes including sedimentation, plate tectonics, weather, climate, and ocean chemistry. Biota including evolution, ecology, and effects of civilization. Field trip to the Gulf Coast. Lab required. 4 credit hours.

GEOL 1447 Introduction to Meteorology

An examination of the Earth's atmosphere, global climate, and associated environmental factors. Includes lab exercises in weather tracking on Weather-Net computer system. Lab required. 4 credit hours.

GEOL 2389 Academic Co-op Geology

Integrates on-campus study with practical hands-on work experience in geology. In conjunction with class seminars, the student will set specific goals and objectives in the study of geology. Contact the Cooperative Work Experience Office. 3 credit hours.

GEOL 2470 Archaeology Science

This course emphasizes skills in interdisciplinary sciences and instructs the student in how to apply methods of critical thinking when evaluating the kinds of information science tells us about our past. It also gives a broad appreciation for the scientific method and the nature of scientific inquiry, and is enhanced by the inclusion of a laboratory. 4 credit hours.

GERM 1100 Conversational German I

Intensive practice in spoken German. Prerequisite: GERM 1412 or consent of department chair. Corequisite: GERM 2311. 1 credit hour.

GERM 1110 Conversational German II

Continuation of GERM 1100. Prerequisite: GERM 1100. Corequisite: GERM 2312. 1 credit hour.

GERM 1411 Beginning German I

Introduction to the basic skills of speaking, reading, writing, and listening; designed for students with little or no previous language training. Includes attention to selected aspects of German civilization. Instruction enhanced by the use of tapes, slides, and video cassettes. Must demonstrate by assessment or prerequisite course, placement in ENGL 1301. 4 credit hours.

GERM 1412 Beginning German II

Continuation of GERM 1411 with an emphasis on the reading of elementary texts. Prerequisite: GERM 1411 or equivalent. 4 credit hours.

GERM 2311 Intermediate German I

Continued development of the four basic language skills with increased attention to reading and writing. Instruction enhanced by the use of tapes, slides, and other audio-visual aids. Prerequisite: GERM 1412 or consent of department chair. Corequisite: GERM 1100. 3 credit hours.

GERM 2312 Intermediate German II

Continuation of GERM 2311. Prerequisite: GERM 2311. Corequisite: GERM 1110. 3 credit hours.

GOVT 2301 American Government I

Introduction to politics and government in the United States. Includes the origin and development of constitutional democracy in the United States, emphasizing the constitutions of the State of Texas and the United States, federalism and intergovernmental relations, local government, and the political process. Must demonstrate, by assessment or prerequisite course, placement in READ 0310. 3 credit hours.

Note: Students transferring a government course from out-of-state must enroll in this course to complete the Texas legislative requirement.

GOVT 2302 American Government II

Examines the institutional structures of government at both national and state levels, including the legislative process, executive and bureaucratic structures, and judicial process. Explores civil rights and civil liberties, domestic policy, foreign relations, and national defense. Must demonstrate, by assessment or prerequisite course, placement in READ 0310. 3 credit hours.

GOVT 2304 Introduction to Political Science

Introduction to the history and methods of political science. Examines basic concepts of politics and political behavior, provides overview of the history of the discipline, explores scope and methods of political inquiry, and explores basic models of politics that operate in the modern world. This course does not apply toward the Texas legislative requirement of 6 credit hours of American government for a bachelor's degree. 3 credit hours.

GOVT 2389 Academic Co-op Government

Integrates on-campus study with practical hands-on work experience in government. In conjunction with class seminars, the student will set specific goals and objectives in the study of government. Contact the Cooperative Work Experience Office. 3 credit hours.

GRPH 1357 Digital Imaging II – Photoshop

An in-depth investigation of digital imaging on the computer using image editing and/or image creation software. Manipulation, creation, and editing of digital images. Topics include: image capture, high-end workstations, image bit-depth, interaction with service bureaus and printing industries. Emphasis on bitmapped or raster-based image making and the creative aspects of electronic illustration. 3 credit hours. (W)

GRPH 1359 Object-Oriented Computer Graphics

Mastery of the tools and transformation options of an industry standard draw program to create complex illustrations and follow them through to the color output stage. Mastery in the use of basic elements of good layout and design principles and use of the capabilities specific to vector (object-oriented) drawing software to manipulate both text and graphics with emphasis on the use of bezier curves. Acquisition of images via scanning and the creative use of clip art are included. 3 credit hours. (W)

GRPH 1380 Cooperative Education – Prepress/Desktop Publishing and Digital Imaging Design

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

GRPH 2305 Directed Studies in Digital Publishing/Internet

Students contract with instructor to increase specific skills in an orderly and defined manner. Emphasis on independent learning skills and development of lifelong learning skills. Lab required. Prerequisite: IMED 2315. 3 credit hours. (W)

GRPH 2309 Electronic Pre-press

Theory and techniques for pre-press preparation using industry standard software for final file output. Topics include the procedures and problems involved in computer file preparation ranging from trapping, color separations, and resolutions to printing basics and service bureaus. Lab required. Prerequisites: ARTC 1305 and ARTC 1325. 3 credit hours. (W)

b

HAMG 1313 Front Office Procedures

A study of the flow of activities and functions in today's lodging operations. Topics include a comparison of manual, machine-assisted, and computer based methods for each front file function. 3 credit hours. (W)

HAMG 1321 Introduction to Hospitality Industry

Introduction to the elements of the hospitality industry. 3 credit hours. (W)

HAMG 1324 Hospitality Human Resources Management

A study of the principles and procedures of managing people in the hospitality workplace. 3 credit hours. (W)

HAMG 1340 Hospitality Legal Issues

A course in legal and regulatory requirements that impact the hospitality industry. Topics include Occupational Safety and Health Administration (OSHA), labor regulations, tax laws, tip reporting, franchise regulations, and product liability laws. 3 credit hours. (W)

HAMG 1380 Cooperative Education – Hospitality Administration/Management, General

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

HAMG 2301 Principles of Food and Beverage Operations

An introduction to the principles of food, beverage, and labor controls with an overview of the hospitality industry from procurement to marketing. Examination of cost components including forecasting, menu planning and pricing, logistical support, production, purchasing, and quality assurance. Lab required. 3 credit hours. (W)

Note: Culinary lab classes require extended periods of time standing in place, lifting heavy weights (up to 60 pounds), reaching, bending, and working around open flames and with cleaning chemicals.

HAMG 2305 Hospitality Management and Leadership

An overview of management and leadership in the hospitality industry with an emphasis on management philosophy, policy formation, communications, motivation, and team building. 3 credit hours. (W)

HAMG 2307 Hospitality Marketing and Sales

Identification of the core principles of marketing and their impact on the hospitality industry. 3 credit hours. (W)

HAMG 2332 Hospitality Financial Management

Methods and applications of financial management within the hospitality industry. Primary emphasis on sales accountability, internal controls, and report analysis. 3 credit hours. (W)

HAMG 2337 Hospitality Facilities Management

Identification of building systems, facilities management, security, and safety. 3 credit hours. (W)

HAMG 2581 Cooperative Education – Hospitality Administration/Management, General

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 5 credit hours. (W)

HIST 1301 U.S. History I

History of the United States with focus on development of American characteristics and institutions, including the forging of a new society from European, African, and American cultures. Emphasis on colonial and early national periods through the Civil War and Reconstruction. Students must take 6 credit hours of HIST 1301, HIST 1302, or HIST 2301 to fulfill the Texas legislative requirement for history. Must demonstrate, by assessment or prerequisite course, placement in READ 0310. 3 credit hours.

HIST 1302 U.S. History II

History of the United States from 1877 to the present. Focus on the development of American society in the 20th century, response to the urban-industrial environment, the United States as a world power, and post-World War II society. Students must take 6 credit hours of HIST 1301, HIST 1302, or HIST 2301 to fulfill the Texas legislative requirement for history. Must demonstrate, by assessment or prerequisite course, placement in READ 0310. 3 credit hours.

HIST 2301 History of Texas

History of Texas from the Spanish period to the present. Emphasis on the period of Anglo-American settlement, revolution, Republic, and the development of the modern state. Students must take 6 credit hours of HIST 1301, HIST 1302, or HIST 2301 to fulfill the Texas legislative requirement for history. 3 credit hours.

HIST 2311 Western Civilization I

European civilization from ancient times through the Reformation, including Greece and Rome, the Church, medieval history, the Commercial Revolution, Renaissance, and the early European empire. 3 credit hours.

HIST 2312 Western Civilization II

Western Europe from post-Reformation to the present, including the Age of evolution, beginning of industrialism, growth of nationalism and democracy in the 19th century, causes and consequences of the two world wars, and modern Europe. 3 credit hours.

HIST 2371 History of Women in America

This course will cover the history of women in the United States from the colonial period to the present day. Recurring themes include the social, political and economic contributions and obstacles in women's lives, taking into account differences in race and class. The course introduces the student to the major social, economic, and political events and themes in the U.S. women's history. 3 credit hours.

HIST 2372 Introduction to America and the World in the Twentieth Century

Survey of U.S. foreign policy during the twentieth century; emphasis on the impact and consequences of America's relations with nations and peoples in various regions of the world, including the Middle East, Asia, Latin America, Eastern Europe, and Africa. 3 credit hours.

HIST 2373 Survey of the History of American Religion

The Survey of the History of American Religion addressed major themes in U.S. History through the lens of religion. The course traces the genesis of religious movements from around the world and examines how these movements, having made their way to North America, have influenced U.S. social and political development. 3 credit hours.

HIST 2389 Academic Co-op History

Integrates on-campus study with practical hands-on work experience in history. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of history. Contact the Cooperative Work Experience Office. 3 credit hours.

HITT 1266 Practicum – Health Information/Medical Records Technology/Technician

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. The guided external experiences may be paid or unpaid. Prerequisite: Consent of instructor and the Cooperative Work Experience Office. 2 credit hours. (W)

HITT 1280 Cooperative Education – Health Information/Medical Records Technology/Technician

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Prerequisite: Consent of instructor and the Cooperative Work Experience Office. 2 credit hours. (W)

HITT 1371 Certification – Physician Coding Exam Review

Review of terminology, anatomy, reimbursement, Current Procedural Terminology (CPT), International Classification of Diseases (ICD)-Clinical Modification (CM), and Health Care Financing Administration Common Procedure Coding System (HCPCS) in preparation for taking a medical coding certification examination. Certification review examinations will be required under timed conditions. Lab required. Prerequisite: HITT 2346. 3 credit hours. (W)

HITT 2346 Advanced Medical Coding

In depth coverage of ICD and CPT coding rubrics, conventions, principles, and updates as they apply to accurate coding of complex medical/surgical cases, with emphasis on case studies. Government regulations and changes in health care reporting will be addressed. Prerequisites: POFM 1353 and SRGT 1301. 3 credit hours. (W)

HPRS 2300 Pharmacology for Health Professions

A study of drug classifications, actions, therapeutic uses, adverse effects, routes of administration, and calculation of dosages. 3 credit hours. (W)

HPRS 2301 Pathophysiology

Study of the pathology and general health management of diseases and injuries across the life span. Topics include etiology, symptoms, and the physical and psychological reactions to diseases and injuries. 3 credit hours. (W)

HRPO 1305 Management and Labor Relations

The development and structure of the labor movement including labor legislation, collective bargaining, societal impact, labor/management relationships, and international aspects. 3 credit hours. (W)

HRPO 1306 Basic Mediator Training

Topics include history of mediation, Alternative Dispute Resolution legislation in Texas, conflict resolution theory, mediation theory and practice, mediation process and techniques, self-awareness and ethics. When scheduled for 40 or more hours, can be used to meet the standards for basic mediation training in Texas as established by the Texas Mediation Trainer Roundtable. 3 credit hours. (W)

HRPO 2301 Human Resources Management

Behavioral and legal approaches to the management of human resources in organizations. 3 credit hours. (W)

HRPO 2307 Organizational Behavior

The analysis and application of organizational theory, group dynamics, motivation theory, leadership concepts, and the integration of interdisciplinary concepts from the behavioral sciences. 3 credit hours. (W)

HUMA 1301 Introduction to the Humanities

Introduction to the Humanities focuses on the study and appreciation of representative examples of visual and performing arts, literature, music and religion of various world cultures. The exploration of interrelationships of the arts and their philosophies emphasizes the nature of humankind and the need to create. 3 credit hours.

HUMA 2319 Cultural Identity in the U. S.

Emphasizes the cultural, historic, social, and/or economic aspects of various U. S. cultures. Explores human values from perspectives such as national origin, language, race, and religion. May investigate these values through art, performance, and intellectual life. 3 credit hours.

Note: This course may be repeated once for credit with a change in content for a total of 6 credit hours.

HUMA 2323 World Cultures

Study of human cultures throughout history. Addresses the various guises and manifestations of individual and cultural identity as expressed in the artistic, performative, and intellectual lives of peoples throughout the world. 3 credit hours.

Note: Students may take this course or ANTH 2346 for credit but not both.

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IBUS 1354 International Marketing Management

Analysis of international marketing strategies using market trends, costs, forecasting, pricing, sourcing, and distribution factors. Development of an international export/import marketing plan. 3 credit hours. (W)

IBUS 2335 International Business Law

A course in law as it applies to international business transactions in the global political-legal environment. Study of inter-relationships among laws of different countries and the legal effects on individuals and business organizations. Topics include agency agreements, international contracts and administrations, regulations of exports and imports, technology transfers, regional transactions, intellectual property, product liability, and legal organization. 3 credit hours. (W)

IBUS 2341 Intercultural Management

Cross-cultural comparisons of management and communications processes. Emphasizes cultural geographic distinctions and antecedents that affect individual, group, and organizational behavior. May include sociocultural demographics, economics, technology, political-legal issues, negotiations, and processes of decision making in the international cultural environment. 3 credit hours. (W)

IMED 1301 Introduction to Multimedia

A survey of the theories, elements, and hardware/software components of multimedia. Topics include digital image editing, digital sound and video editing, animation, web page development, and interactive presentations. Emphasis on conceptualizing and producing effective multimedia presentations. The focus of the class is interface design, including: color theory, typography, graphics, layout, and interactive design. Prerequisite: BCIS 1305 or COSC 1300. 3 credit hours. (W)

IMED 1316 Web Page Design I

Instruction in web page design and related graphic design issues including mark-up languages, web sites and browsers, Internet access software, and interactive topics. Prerequisites: ARTC 1302 and ARTC 1325. 3 credit hours. (W)

IMED 1341 2-D Interface Design – Fireworks

Skill development in the interface design process including selecting interfaces that are meaningful to users and relative to a project's content and delivery system. Emphasis on aesthetic issues such as iconography, screen composition, colors, and typography. Prerequisite: IMED 1301. 3 credit hours. (W)

IMED 1345 Interactive Multimedia I – Flash

Exploration of the use of graphics and sound to create interactive multimedia animations using industry standard authoring software. Prerequisites: BCIS 1305 or COSC 1300. 3 credit hours. (W)

IMED 2301 Instructional Design

An in-depth study of the instructional design process based on learning theories, including evaluation of models and design examples. 3 credit hours. (W)

IMED 2309 Internet Commerce

An overview of the Internet as a marketing and sales tool with emphasis on developing a prototype for electronic commerce. Topics include database technology, creating web sites in order to collect information, performing on-line transactions, and generating dynamic content. Prerequisite: ITSE 1311. 3 credit hours. (W)

IMED 2313 Project Analysis and Design

Introduction to the planning process for multimedia or web including costing, preparation, production legal issues, and guidelines for pre-production preparation and creation of a comprehensive design document including target audience analysis, purpose and goals, objectives, content outline, flow chart, and storyboard. Emphasis on content design and production management. Prerequisite: Approval of Department Chair. 3 credit hours. (W)

IMED 2315 Web Page Design II

A study of mark-up language advanced layout techniques for creating web pages. Emphasis on identifying the target audience and producing web sites according to accessibility standards, cultural appearance, and legal issues. Lab required. Prerequisite: IMED 1316. 3 credit hours. (W)

IMED 2345 Interactive Multimedia II – Flash II

Instruction in the use of scripting language to create interactive multimedia projects. Topics include building a user interface, writing script, testing, and debugging. Advanced use of graphics and sound to create interactive multimedia animations using industry standard authoring software. Prerequisite: IMED 1345. 3 credit hours. (W)

IMED 2349 Internet Communications – Web Servers

Advanced seminar in web server design and maintenance. Topics include scripting, web site planning, testing, security, production, and marketing. Lab required. Prerequisite: ITSE 1311. 3 credit hours. (W)

INDS 1301 Basic Elements of Design

A study of basic design concepts with projects in shape, line, value, texture, pattern, spatial illusion, and form. Lab required. Prerequisite: Interior Design major. 3 credit hours. (W)

INDS 1315 Materials, Methods, and Estimating

A study of materials, methods of construction and installation, and estimating for interior design applications. Lab required. Prerequisite: INDS 1301 or consent of department chair. 3 credit hours. (W)

INDS 1319 Technical Drawing for Interior Designers

An introduction to reading and preparing technical construction drawings for interior design, including plans, elevations, details, schedules, dimensions and lettering. Both manual and AutoCAD plans will be generated. Lab required. Prerequisite: DFTG 1309. 3 credit hours. (W)

INDS 1341 Color Theory and Applications

A study of color theory and its applications to interior design. Actual interior design will be given that will involve applying various color systems, with emphasis on Munsell. The student will learn mixing techniques to gain desired hue; value and chroma (intensities) for solving design color schemes. Color psychology and phenomena will be investigated. The students will be introduced to elements and principles of design and will learn to achieve balance, rhythm, emphases, harmony, and variety through the use of color. Additive and subtractive color mixing, and relationship of light will be examined. Lab required. 3 credit hours. (W)

INDS 1345 Commercial Design I

A study of design principles applied to furniture layout and space planning for commercial interiors. Lab required. Prerequisites: DFTG 1309 and INDS 1301. 3 credit hours. (W)

INDS 1351 History of Interiors I

Historical survey of antiquities and European styles and periods of architecture, interiors, and furnishings. With consideration of Egypt, Greece, Italy, Spain, and France. Lab required. 3 credit hours. (W)

INDS 1352 History of Interiors II

Historical survey of English, American, Asian, and 20th Century styles and periods of architecture, interiors, and furnishings. Lab required. Prerequisite: INDS 1351. 3 credit hours. (W)

INDS 1380 Cooperative Education – Interior Design

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

INDS 2307 Textiles for Interior Design

The study of interior design textiles including characteristics, care, codes, and applications. Prerequisites: DFTG 1309, INDS 1301, and INDS 1341. 3 credit hours. (W)

INDS 2313 Residential Design I

The study of residential spaces, including the identification of client needs, programming, standards, space planning, drawings, and presentations. Lab required. Prerequisites: DFTG 1309, INDS 1301, and INDS 1341. 3 credit hours. (W)

INDS 2315 Lighting for Interior Designers

Fundamentals of lighting design, including lamps, luminaries, lighting techniques, and applications for residential and commercial projects. Lab required. 3 credit hours. (W)

INDS 2321 Presentation Drawing

An introduction to two- and three-dimensional presentations, including drawings with one- and two-point perspectives, plans, and elevations. Lab required. Prerequisites: DFTG 1309, INDS 1301, and INDS 1341. 3 credit hours. (W)

INDS 2330 Interior Design Building Systems

An overview of building materials, mechanical systems, and construction techniques as applied to interior design. Discussion of codes, project sequencing and the interpretation of detailed working drawings. Lab required. Prerequisite: INDS 1345. 3 credit hours. (W)

INDS 2331 Commercial Design II

Advanced concepts of specialized commercial interior design projects, including hospitality, corporate, retail, health care, institutional, or other specialized commercial design projects. Lab required. Prerequisite: INDS 1345. 3 credit hours. (W)

INDS 2335 Residential Design II

A comprehensive study of complex residential interior design problems, including advanced space planning, specifications, budgets, and presentation renderings. Lab required. Prerequisites: DFTG 2319, INDS 1319, INDS 2313, and INDS 2321. 3 credit hours. (W)

INDS 2337 Portfolio Presentation

A course in the preparation and presentation of a comprehensive interior design portfolio, including resume preparation, employment interview skills, and goal setting. Lab required. Prerequisite: Consent of department chair. 3 credit hours. (W)

INEW 2301 Macros for Applications – VBA

A study of macros used for applications. Topics include analysis of the need for macros in various applications, macro design considerations, and macro coding and implementation. Visual Basic controls, objects, methods, and properties will be used from within Microsoft Office and other VBA compliant applications to develop integrated business applications. Prerequisites: ITSW 1304 or ITSW 1307. 3 credit hours. (W)

INEW 2330 Comprehensive Software Project I: Planning and Design

A comprehensive application of skills learned in previous courses in a simulated workplace. Covers the development, testing, and documenting of a complete software and/or hardware solution. This course may be used as a capstone course for a certificate or degree. May be combined with Project II when the expected outcomes include completion of the programming life cycle. Students work together as a team to take one problem from description through design, coding, and testing to yield a working application that performs the requested

activity. Grade is based on team performance and each student's contribution to the team. Prerequisite: Consent of instructor. (W)

INEW 2334 Advanced Web Page Programming – ASP.NET

Advanced applications for Web authoring. Topics may include Perl Scripts, Common Gateway Interface (CGI), Database Interaction, Active Server Pages, Java Applets, JavaScripts, tables, HTML, and/or interactive elements. Students will build, implement, and execute fully functional, fully-interactive, dynamic web applications using Active Server Pages (ASP) and other technologies. Prerequisite: ITSE 1311. (W)

INEW 2338 Advanced Java Programming

A continuation of advanced Java programming techniques such as servlets, and advanced graphical functions. Prerequisite: ITSE 2317. 3 credit hours. (W)

INEW 2340 Object-Oriented Design

Study of how to start with an English language description of a problem and create a design for a programming solution using object-oriented techniques. Topics include determining what objects will be required, how to decide what members an object requires, how to determine relationships between objects, and how to partition a design to be implemented by multiple members of a team. Prerequisites: COSC 1337 or COSC 1437. 3 credit hours. (W)

INMT 1447 Industrial Automation

A study of the applications of industrial automation systems including identification of system requirements, equipment integration, motors, controllers, and sensors. Coverage of setup, maintenance, and testing of the automated system. Lab required. 4 credit hours. (W)

INTC 1305 Introduction to Electronic Instrumentation

A survey of the instrumentation field and the professional requirements of the instrumentation technician, including an introduction to computer and calculator applications involved in basic electronic circuit analysis. Lab required. 3 credit hours. (W)

INTC 1307 Electronic Test Equipment

A study of the theory and application of analog and digital meters, oscilloscopes, frequency generation, frequency measurements, and special measuring instruments. Emphasis on accuracy and limitations of instruments and calibration techniques. Lab required. 3 credit hours. (W)

ITAL 1411 Beginning Italian I

Introduction to the basic skills of speaking, reading, writing, and listening. Intended for students with little or no previous training in Italian. Must demonstrate by assessment or prerequisite course, placement in ENGL 1301. 4 credit hours.

ITAL 1412 Beginning Italian II

Continuation of ITAL 1411. Prerequisite: ITAL 1411. 4 credit hours.

ITCC 1302 CCNA 1: Networking Basics

A course introducing the basics of networking including network terminology, local area networks (LAN) and wide area networks (WAN). Topics include network protocols such as TCP/IP, Open System Interconnection (OSI) models, cabling and routers. Introductory coverage of the fundamental principals of fiber optic cables and networks is included along with the usage of applicable hand tools. Fire and personal safety are also discussed. Lab required. 3 credit hours. (W).

ITCC 1306 CCNA 2: Router and Routing Basics

An introduction to basic Cisco router configuration for local area networks. Topics include initial router configuration for TCP/IP, management of Cisco IOS and router configuration files, routing protocols, and access control lists. An introduction to Gigabit Ethernet and IPv6 is covered along with concepts related to network monitoring and the utilization of tools such as the network analyzer. Lab required. Prerequisite: ITCC 1302. 3 credit hours. (W)

ITCC 1342 CCNA 3: Switching Basic and Intermediate Routing

A course focusing on advanced topics including IP addressing techniques, intermediate routing protocols, CLI configuration of switches, Ethernet switching, VLANs, Spanning Tree Protocol, and VLAN Trunking Protocol. Documentation requirements and techniques are discussed as well as troubleshooting within a multi-protocol networking environment. Lab required. Prerequisite: ITCC 1306. 3 credit hours. (W)

ITCC 1346 CCNA 4: WAN Technologies

This course focuses on advanced IP addressing techniques (Network Address Translation [NAT], Port Address Translation [PAT], and DHCP), WAN technology and terminology, PPP, ISDN, DDR, Frame Relay, network management and introduction to optical networking. In addition, the student will prepare for the CCNA exam. Security concepts including firewalls and encryption are considered, and detailed emphasis on the application of voice, data, and video convergence concepts are covered in this course. Lab required. Prerequisite: ITCC 1342. 3 credit hours. (W)

ITCC 2432 CCNP 5: Advanced Routing

A study of advanced network deployment issues and methods used to configure Cisco routers for effective LAN and WAN traffic management. Topics include designing scalable internetworks, managing traffic, configuring OSPF in single and multiple areas, configuring EIGRP, and configuring and using interior and border gateway routing protocols. Lab required. Prerequisite: CCNA certified or completion of Academy CCNA program. 4 credit hours. (W)

ITCC 2436 CCNP 6: Remote Access

Designing and building remote access networks with Cisco products. Topics include assembling and cabling WAN components, configuring network connections via asynchronous modem, ISDN, X.25, and frame relay architectures and associated protocols. Lab required. Prerequisite: ITCC 2432. 4 credit hours. (W)

ITCC 2440 CCNP 7: Multilayer Switching

An introduction to Cisco switches and how to use Cisco switches effectively in networks. Topics include switching concepts, virtual LANs, switch architecture (hardware and software), switch configuration, management and troubleshooting. Lab required. Prerequisite: ITCC 2436. 4 credit hours. (W)

ITCC 2444 CCNP 8: Network Troubleshooting

A study of troubleshooting methods for internetworks. Topics include Cisco Troubleshooting Tools, diagnosing and correcting problems within TCP/IP, Novell, and AppleTalk networks, and with Frame Relay and ISDN network connections. Lab required. Prerequisite: ITCC 2440. 4 credit hours. (W)

ITMC 1301 Microsoft Windows Network and Operating System Essentials

An introduction to Microsoft Windows network operating systems and to the fundamentals of networking technologies that they support. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software. Lab required. 3 credit hours. (W)

ITMC 1358 Supporting Microsoft Windows Client Network Operating Systems (XP Pro)

Skill development for customizing, configuring, supporting, and troubleshooting Windows. Lab required. Prerequisite: ITNW 1358 or consent of instructor. 3 credit hours. (W)

ITMC 1371 Installing, Configuring, and Administering Microsoft Windows XP Professional

The focus of this course is on implementing and supporting the Windows XP Professional operating system to function as a workstation in a peer-to-peer environment and to function as a client in a client server local area network environment using Windows XP Professional as a client on a Windows server network. Lab required. Prerequisite: ITNW 1358. 3 credit hours. (W)

ITMC 1441 Implementing Microsoft Windows Professional and Server

In-depth coverage of the knowledge and skills necessary to install and configure Microsoft Windows on stand-alone computers and on client computers that are part of a workgroup or domain. Provides the skills and knowledge necessary to install and configure Windows Server to create file, print, and servers. Lab required. Prerequisite: ITMC 1301. 4 credit hours. (W)

ITMC 1442 Implementing a Microsoft Windows Network Infrastructure

Skills development in installing, configuring, managing, and supporting a network infrastructure that uses the Microsoft Windows server family of products. Lab required. Prerequisite: ITMC 1441 or consent of instructor. 4 credit hours. (W)

ITMC 1443 Implementing and Administering Microsoft Directory Services

Provides students with the knowledge and skills necessary to install, configure and administer Microsoft Windows Active Directory service. Focuses on implementing Group Policy and understanding the Group Policy tasks required to centrally manage users and computers. Lab required. Prerequisite: ITMC 1441. 4 credit hours. (W)

ITMC 1475 Managing a Microsoft Windows Network Environment

The focus of this course is on covering the skills needed to administer, support, and troubleshoot information systems that incorporate Microsoft Windows in an enterprise network. Lab required. Prerequisite: ITMC 1441. 4 credit hours. (W)

ITMC 1476 Installing and Administering Microsoft Windows 2003 Server

An introduction to Microsoft Windows 2003 Server operating system in a single domain environment. Topics include basic installation, configuration tasks, and day-to-day administration tasks in a Windows 2003-based network. Lab required. Prerequisite: ITNW 1358 or consent of instructor. 4 credit hours. (W)

ITMC 2403 Administering a Microsoft SQL Server Database

In-depth coverage of the knowledge and skills required to install, configure, administer, and troubleshoot the client-server database management system of Microsoft SQL Server databases. Lab required. Prerequisite: ITMC 1441. 4 credit hours. (W)

ITMC 2404 Implementing and Managing Microsoft Exchange

In-depth coverage of the knowledge and skills required to install and administer Microsoft Exchange. Lab required. Prerequisite: ITMC 1441 or consent of instructor. 4 credit hours. (W)

ITMC 2431 Designing a Microsoft Windows Directory Services Infrastructure

Advanced concepts in the knowledge and skills necessary to design a Microsoft Windows directory services infrastructure. Strategies are presented to assist the student in identifying the information technology needs of the organization and to designing the Active Directory structure that meets those needs. Lab required. Prerequisite: ITMC 1443 or consent of instructor. 4 credit hours. (W)

ITMC 2432 Designing a Microsoft Windows Networking Services Infrastructure

Provides experienced support professionals with the information and skills to create a networking services infrastructure design that supports the required network applications. Lab required. Prerequisite: ITMC 1443. 4 credit hours. (W)

ITMC 2433 Designing a Secure Microsoft Windows Network

Provides students with the knowledge and skills necessary to design a security framework for small, medium, and enterprise networks by using Microsoft Windows networking technologies. Lab required. Prerequisites: ITMC 1443 or consent of instructor. 4 credit hours. (W)

ITMC 2477 Planning and Maintaining a MS Server 2003 Network Infrastructure

The goal of this course is to provide students with the knowledge and skills necessary to plan and maintain a Windows Server 2003 network infrastructure. Lab required. Prerequisite: ITNW 2404 or consent of instructor. 4 credit hours. (W)

ITMC 2478 Planning, Implementing, and Maintaining a MS Server 2003 Active Directory Infrastructure

This course includes self-paced and instructor-facilitated components. It provides students with the knowledge and skills to successfully plan, implement, and troubleshoot a Microsoft Windows Server 2003 Active Directory directory service infrastructure. The course focuses on a Windows Server 2003 directory service environment, including forest and domain structure, Domain Name System (DNS), site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user, group, and computer account strategies. Lab required. Prerequisite: ITMC 2477 or consent of instructor. 4 credit hours. (W)

ITMC 2479 Implementing and Administering Security in a MS Server 2003 Network

This course covers skills needed to implement, manage, maintain, and troubleshoot security in a Windows Server 2003 network infrastructure and also plan and configure a Windows Server 2003 PKI. Lab required. Prerequisite: ITMC 2478 or consent of instructor. 4 credit hours. (W)

ITNW 1358 Network+

Prepares individuals for a career as a Network Engineer in the Information Technology support industry. Includes the various responsibilities and tasks required for service engineer to successfully perform in a specific environment. Prepares individual to pass the Computing Technology Industry Association (CompTIA) Network+ certification exam. Lab required. 3 credit hours. (W)

ITNW 1380 Cooperative Education – Computer Systems Networking and Telecommunications

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

ITNW 1451 Fundamentals of Wireless LANs

Designing, planning, implementing, operating, and troubleshooting wireless LANs (WLANs). Includes WLAN design, installation, and configuration; and WLAN security issues and vendor interoperability strategies. Lab required. Prerequisite: ITCC 1306 or hold a current CCNA certification. 4 credit hours. (W)

ITNW 1492 Special Topics in Computer Systems Networking and Telecommunications

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Lab required. 4 credit hours. (W)

Cisco Fundamentals of Network Security

Prepares Cisco qualified students to take two Cisco certification tests: "Managing Cisco Network Security" and "Cisco Secure PIX Firewall Advanced" exams. Provides students with the knowledge to configure secure Cisco routers and PIX firewalls, focusing on overall network security processes. Lab required. Prerequisites: ITCC 1302, ITCC 1306, ITCC 1342, and ITCC 1346, or CCNA certification.

ITNW 2305 Network Administration

Topics include network components, user accounts and groups, network file systems, file system security, and network printing. Preparation to effectively manage a Novell NetWare network. Lab required. Prerequisite: ITNW 1358. 3 credit hours. (W)

ITNW 2373 Linux Operating System

The focus of this course is on implementing and supporting the Linux operating system to function as a workstation in a peer-to-peer environment, to function as a client in a client server local area network environment, and to function as a server in a client server network. Lab required. Prerequisite: ITNW 1358. 3 credit hours. (W)

ITNW 2374 Linux Security

The focus of this course is on advanced topics concerning management and advanced security features of systems incorporating Redhat Linux operating system as a server in a networked environment. Areas covered will include Theory of operation, base systems, shells and commands, system services, applications, and troubleshooting. This course will help the student prepare for the Redhat Certified Systems Engineer certification. Lab required. Prerequisite: ITNW 1358 or consent of instructor. 3 credit hours. (W)

ITNW 2401 Administering Servers

Replaces ITMC 2475

Preparation for Exam 70-290. Post-installation and day-to-day administration tasks of various network operating system servers. Lab required. Prerequisite/corequisite: ITNW 1358 or consent of instructor. 4 credit hours. (W)

ITNW 2404 Implementing, Managing, and Maintaining a Microsoft Windows 2003 Environment

Formerly ITMC 2476

Preparation for Exam 70-291. Includes configuring a Windows-based computer to operate in a Microsoft Windows Server 2003 networking infrastructure. Lab required. Prerequisite/corequisite: ITNW 2401 or consent of instructor. 4 credit hours. (W)

ITSC 1309 Integrated Software Applications I – MS Office

Integration of applications from popular business productivity software suites. Instruction in embedding data, linking and combining documents using word processing, spreadsheets, databases, and/or presentation media software. Prerequisite: POFT 1329 or a keyboarding class taken in high school. 3 credit hours. (W)

ITSC 1364 Practicum – Computer and Information Sciences, General

A basic or intermediate type of non-health professions work-based instruction that provides basic career exploration or helps students gain practical experience in the discipline, enhance skills, and integrate knowledge. The emphasis is on practical work experience. Indirect supervision is provided by the work supervisor. A practicum may be a paid or unpaid learning experience. Prerequisite: Must have department approval. 3 credit hours. (W)

ITSC 2380 Cooperative Education – Computer and Information Sciences, General

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

ITSE 1311 Beginning Web Page Programming

Web page programming including mark-up and scripting languages. May include use of XHTML, CGI, JavaScript, and/or ASP. Introduction to structure and object oriented programming design. Students use Cascading Style Sheets (CSS), XHTML, and JavaScript to design and implement interactive web pages. Hands-on labs allow student to experience each topic discussed. Prerequisite: BCIS 1305 or COSC 1300. 3 credit hours. (W)

ITSE 1344 Mastering Microsoft Visual Basic Development [.NET]

Skill development in the creation of database applications using component object model (COM). Develop Microsoft Visual Basic applications to access data from a database; develop applications using component object models (COM); and create an ActiveX control. Additional topics: Continued study of OOP, ADO .NET, and ASP .NET. Prerequisites: ITSE 1431 and ITSW 1307 or equivalent competency. 3 credit hours. (W)

ITSE 1356 Introduction to XML

Introduction of skills and practice related to the Extensible Markup Language/Simple Object Access Protocol. Topics to be covered will include: elements, attributes, namespaces, entities, and what constitutes a well-formed document. Students will learn Extensible Markup Language (XML) structure and usage, how to create Document Type Definitions (DTDs) and basic schemas, and how to create and use XML data. Students will participate in hands-on labs, allowing them to experience each of the topics discussed. Prerequisite: ITSE 1311. 3 credit hours. (W)

ITSE 1380 Cooperative Education – Computer Programming/Programmer, General

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

ITSE 1431 Introduction to Visual Basic Programming [.NET]

Introduction to computer programming using Visual Basic. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes language syntax, data and file structures, input/output devices, and files. Use structured programming techniques; develop correct executable programs; create appropriate documentation; and create applicable graphical user interfaces. Additional topics: Introduction to OOP, ADO .NET, and ASP .NET. Prerequisite: COSC 1300 or equivalent computer literacy competencies. 4 credit hours. (W)

ITSE 2301 Windows Programming Using C++

Introduction to computer programming for windows using C++. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes language syntax, data, and file structures. Input/output devices, and files. Uses Visual C++ in an integrated development environment. Prerequisites: COSC 1437. 3 credit hours. (W)

ITSE 2302 Intermediate Web Programming

Intermediate applications for web authoring. Topics may include server-side includes (SSI), Perl, HTML, Java applets, JavaScript, and/or ASP. Students design and implement fully interactive web sites using

Dynamic HTML (DHTML) techniques that combine XHTML with CSS and JavaScript. Hands-on labs allow students to experience each of the topics discussed. Prerequisite: ITSE 1311. 3 credit hours. (W)

ITSE 2309 Database Programming – SQL

Database development using database programming techniques emphasizing database structures, modeling, and database access. Prerequisite: Introductory computer programming course and knowledge of MS Access. 3 credit hours. (W)

ITSE 2313 Web Authoring – Dreamweaver

Instruction in designing and developing web pages that incorporate text, graphics, and other supporting elements using current technologies and authoring tools. Prerequisite: ITSE 1311. 3 credit hours. (W)

ITSE 2317 Java Programming

Introduction to Java programming with object-orientation. Emphasis on the fundamental syntax and semantics of Java for applications and web applets. Review of control structure and data types with emphasis on structured data types. Applies the object-oriented paradigm, focusing on the definition and use of classes along with the fundamentals of object-oriented design. Includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering. Lab required. Prerequisite: COSC 1436. 3 credit hours. (W)

ITSE 2333 Implementing a Database on Microsoft SQL Server

Skills development in the implementation of a database solution using Microsoft SQL Server client/server database management system version 7.0. 3 credit hours. (W)

ITSE 2339 Advanced Windows Programming Using C++

Further applications of windows programming techniques using C++, including file access methods, data structures, modular programming, program testing, and documentation. Topics will include building DLLs, multi-threaded applications, ActiveX controls and COM objects, and connecting to a database via SQL. Prerequisite: ITSE 2301. 3 credit hours. (W)

ITSE 2344 Oracle Database Structure and Data Warehousing

A practical application course for modeling and designing an Oracle data warehouse using case studies. Prerequisite: Oracle Distributed Database and Client/Server Systems or ITSE 2309. 3 credit hours. (W)

ITSE 2347 Advanced Database Programming – Advanced SQL

Database development using complex database programming techniques emphasizing multiple interrelated files, menu design, security implementation, and multiple access. Procedural SQL will be

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used to study control constructs, cursors, exception handlers, procedures, functions, and data warehousing. Prerequisite: Introduction to Database Programming or ITSE 2309. 3 credit hours. (W)

ITSE 2349 – Advanced Visual Basic Programming [.NET]

Further applications of programming techniques using Visual Basic. Topics include file access methods, data structures and modular programming, program testing and documentation. Develop correct, well documented programs containing complex data structures, incorporate complex input/output file handling techniques, develop graphical user interfaces to other software applications; and integrate external programs and libraries with Visual Basic applications. Additional topics: Advanced coverage of OOP, ADO .NET, and ASP .NET. Prerequisite: ITSE 1344. 3 credit hours. (W)

ITSE 2354 Advanced Oracle SQL and PL/SQL

A continuation of Oracle SQL and PL/SQL. Topics include hierarchical queries, set based queries, correlated subqueries, scripting, and scripting generation. Cursors, exception handlers, record/table structures, procedures/functions, packages, and object types will also be studied. 3 credit hours. (W)

ITSE 2373 Database Programming with Visual C++ and SQL

This is a class to learn to write programs using C++ in the Microsoft windows environment and demonstrating the use of interacting with a database via SQL calls (both by using native SQL calls and by using the ODBC interface). Prerequisite: ITSE 2301 and ITSE 2309. 3 credit hours. (W)

ITSE 2374 Computer Programming – C#

Application of C# programming techniques in the Microsoft windows environment. Includes creating both stand-alone Microsoft windows applications and web-oriented applications. Prerequisites: COSC 1337 or COSC 1437 or consent of department chair. 3 credit hours. (W)

ITSE 2380 Cooperative Education – Computer Programming/Programmer, General

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. Prerequisite: ITSE 1380 or consent of department chair. 3 credit hours. (W)

ITSE 2431 Advanced C++ Programming

Further application of C++ programming techniques including subjects such as file access, abstract data structures, class inheritance, and other advanced techniques. Review of control structure and data types with emphasis on structured data types. Applies the object-

oriented paradigm, focusing on the definition and use of classes along with the fundamentals of object-oriented design. Includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering. Lab required. Prerequisite: COSC 1436. 4 credit hours. (W)

ITSW 1304 Introduction to Spreadsheets – Excel

Instruction in the concepts, procedures, and application of electronic spreadsheets. Prerequisite: BCIS 1305 or COSC 1300. 3 credit hours. (W)

ITSW 1307 Introduction to Database – Access

Introduction to database theory and the practical applications of a database. Prerequisite: BCIS 1305 or COSC 1300. 3 credit hours. (W)

ITSW 1380 Cooperative Education – Data Processing and Data Processing Technology/Technician

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

ITSW 2380 Cooperative Education – Data Processing and Data Processing Technology/Technician

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. Prerequisite: ITSE 1380 or consent of department chair. 3 credit hours. (W)

ITSY 2300 Operating System Security

Safeguard computer operating systems by demonstrating server support skills and designing and implementing a security system. Identify security threats and monitor network security implementations. Use best practices to configure operating systems to industry security standards. Lab required. Prerequisite: ITMC 2479 or consent of instructor. 3 credit hours. (W)

ITSY 2342 Incident Response and Handling

In-depth coverage of incident response and incident handling, including identifying sources of attacks and security breaches; analyzing security logs; recovering the system to normal; performing postmortem analysis; implementing and modifying security measures. Prerequisite: ITSY 2300 or consent of instructor. 3 credit hours. (W)

ITSY 2343 Computer System Forensics

In-depth study of system forensics including methodologies used for analysis of computer security breaches. Gather and evaluate evidence to perform postmortem analysis of a security breach. Lab required. Prerequisite: ITSY 2342 or consent of instructor. 3 credit hours. (W)

ITSY 2359 Security Assessment and Auditing

Capstone experience for the security curriculum. Synthesizes technical material covered in prior courses to monitor, audit, analyze, and revise computer and network security systems to ensure appropriate levels of protection are in place. Lab required. Prerequisite: ITSY 2300 and ITSY 2401 or consent of instructor. 3 credit hours. (W)

ITSY 2401 Firewalls and Network Security

Identify elements of firewall design, types of security threats and responses to security attacks. Use best practices to design, implement, and monitor a network security plan. Examine security incident postmortem reporting and ongoing network security activities. Lab required. Prerequisite: ITSY 2300 or consent of instructor. 4 credit hours. (W)

ITSY 2441 Security Management Practices

In-depth coverage of security management practices, including asset evaluation and risk management; cyber law and ethics issues; policies and procedures; business recovery and business continuity planning; network security design; and developing and maintaining a security plan. Lab required. Prerequisite: ITSY 2300 or consent of instructor. 4 credit hours. (W)

ITSY 2442 Incident Response and Handling

In-depth coverage of incident response and incident handling, including identifying sources of attacks and security breaches; analyzing security logs; recovering the system to normal; performing postmortem analysis; and implementing and modifying security measures. Lab required. Prerequisite: ITSY 2300 or consent of instructor. 4 credit hours. (W)

ITSY 2443 Computer System Forensics

In-depth study of system forensics including methodologies used for analysis of computer security breaches. Gather and evaluate evidence to perform postmortem analysis of a security breach. Lab required. Prerequisite: ITSY 2442 or consent of instructor. 4 credit hours. (W)

ITSY 2459 Security Assessment and Auditing

Capstone experience for the security curriculum. Synthesizes technical material covered in prior courses to monitor, audit, analyze, and revise computer and network security systems to ensure appropriate levels of protection are in place. Lab required. Prerequisite: ITSY 2300 and ITSY 2401 or consent of instructor. 4 credit hours. (W)

j**JAPN 1411 Beginning Japanese I**

Introduction to the basic skills of speaking, reading, writing, and listening with attention to selected aspects of Japanese culture; designed for students with little or no previous language training. Instruction is enhanced by the use of tapes, slides, and video cassettes. Must demonstrate by assessment or prerequisite course, placement in ENGL 1301. 4 credit hours.

JAPN 1412 Beginning Japanese II

A continuation of JAPN 1411. Prerequisite: JAPN 1411. 4 credit hours.

JAPN 2311 Intermediate Japanese I

Continuing development of the four basic skills of speaking, reading, writing, and listening, emphasizing conversational and reading skills. Designed for students who have completed Beginning Japanese II. Additional Kanji structures are introduced. Also includes attention to selected aspects of Japanese culture. Prerequisite: JAPN 1412. 3 credit hours.

JAPN 2312 Intermediate Japanese II

Continued development of four basic language skills with emphasis on conversation and reading skills. Additional Kanji and grammar structures are introduced. Includes attention to selected aspects of Japanese culture. Prerequisite: JAPN 2311. 3 credit hours.

l**LEAD 1301 Introduction to Leadership Theory (SLA I)**

Study of the various theoretical and practical concepts of leadership and the development of leadership styles. Deliver presentations, create individual portfolios, and work in teams developing strategic initiatives. Prerequisite: Student must have a 2.5 GPA, and submit application for consideration and admittance. 3 credit hours.

LEAD 2301 Advanced Leadership Theory (SLA II)

Concepts essential to the nature of leadership, including the conceptual background theories, approaches, styles and ethical issues in leadership research and thinking. Prerequisite: LEAD 1301, student must have a 2.5 GPA, and submit application for consideration and admittance. 3 credit hours.

LGLA 1303 Legal Research

Law library techniques and computer assisted legal research. Prerequisite: LGLA 1307 or LGLA 1346, or consent of instructor. 3 credit hours. (W)

LGLA 1305 Legal Writing

This course provides a working knowledge of the fundamentals of effective legal writing. Topics include briefs, legal memoranda, case and fact analysis, citation forms, and legal writing styles. 3 credit hours. (W)

LGLA 1307 Introduction to Law and the Legal Professions

This course provides an overview of the law and the legal professions. Topics include legal concepts, systems, and terminology; ethical obligations and regulations; professional trends and issues with particular emphasis on the paralegal. 3 credit hours. (W)

LGLA 1346 Civil Litigation I

This course presents fundamental concepts and procedures of civil litigation with emphasis on the paralegal's role. Civil Litigation I together with Civil Litigation II covers litigation from the pretrial stage to the post trial phase. 3 credit hours. (W)

LGLA 1347 Civil Litigation II

This course presents fundamental concepts and procedures of civil litigation with emphasis on the paralegal's role. Civil Litigation II together with Civil Litigation I covers litigation from the pre-trial stage to the post-trial stage. Prerequisite: LGLA 1346 or consent of instructor. 3 credit hours. (W)

LGLA 1353 Wills, Trusts, and Probate Administration

This course presents fundamental concepts of the law of wills, trusts, and probate administration with emphasis on the paralegal's role. 3 credit hours. (W)

LGLA 1355 Family Law

This course presents fundamental concepts of family law with emphasis on the paralegal's role. Topics include formal and informal marriages, divorce, annulment, marital property, and the parent-child relationship. 3 credit hours. (W)

LGLA 1380 Cooperative Education – Legal Assistant/Paralegal

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

LGLA 2239 Certified Legal Assistant Review

This course provides a review of the mandatory and optional topics covered in the Certified Legal Assistant Examination administered by the National Association of Legal Assistants. 2 credit hours. (W)

LGLA 2303 Torts and Personal Injury Law

This course presents fundamental concepts of tort law with emphasis on the paralegal's role. Topics include intentional torts, negligence, and strict liability. 3 credit hours. (W)

LGLA 2307 Law Office Management

Basic principles and structure of management, administration, and substantive systems in the law office. Includes law practice technology as applied to paralegals. 3 credit hours. (W)

LGLA 2333 Advanced Legal Document Preparation

Preparation of legal documents based on hypothetical fact situations drawn from various areas including real estate, family law, contracts, litigation, and business organization. Prerequisite: POFI 1301 or POFI 2301, or consent of instructor. 3 credit hours. (W)

LGLA 2337 Mediation

Alternative dispute resolution. Emphasizes the role of the paralegal in mediation. Includes differences between mediation and arbitration, the process of mediation, and dispute resolution techniques. 3 credit hours. (W)

LOTT 1401 Introduction to Fiber Optics

An introductory course in fiber optics and its application including advantages of fiber, light transmission in fiber, types of fiber, sources, detectors, and connectors. Lab required. 4 credit hours. (W)

LOTT 1443 Geometrical Optics I

Theory of light as a geometric ray. Applications of the laws of reflection and refraction from the mathematical, graphical, and experimental aspects. Lab required. Corequisite: MATH 1314. 4 credit hours. (W)

LOTT 1444 Fundamentals of Laser and Laser Safety

An introduction to the general nomenclature of the laser including laser safety, light and its properties, lasing action, optical cavities, modes of oscillation, and laser characteristics and classifications. Lab required. Prerequisite: LOTT 1443 or consent of instructor. 4 credit hours. (W)

LOTT 2436 Wave Optics

Principles and theory of light and its wave nature including origin of light, spectral characteristics of light, radiometry, photometry, reflection, refraction, propagation of light, interference, diffraction, and polarization. Lab required. Prerequisite: LOTT 1443. 4 credit hours. (W)

LOTT 2440 Microwave Fundamentals

Introduction to microwave theory and applications, transmitter and receiver. Lab required. Prerequisite: CETT 1409. 4 credit hours. (W)

LOTT 2449 Photonics

A study of wave and quantum aspects of optical radiation and various applications of coherent and non-coherent photonic devices. Emphasis on fiber optics, opto-electronic devices, and photo devices as they apply to industrial controls, data transmission, and telecommunications. Lab required. Prerequisite: LOTT 1443 and LOTT 2436 or consent of instructor. 4 credit hours. (W)

MATH 0115 Introductory Geometry

Study of plane and solid geometry; recommended for students who have not passed the TSI mathematics requirement; required for students who have not passed high school geometry and are planning to take MATH 1314, MATH 1316, or MATH 2312. Lab included. Prerequisite: MATH 0305 or equivalent. 1 credit hour.

Note: May not be used to satisfy the requirements of an associate degree.

MATH 0300 Basic Mathematics

Study of arithmetic operations with whole numbers, fractions, decimals, percents, and basic geometry. Introduction to algebra including signed numbers, expressions, and equations. Lab included. 3 credit hours.

Note: May not be used to satisfy the requirements of an associate degree.

MATH 0302 Pre-algebra

Study of mathematical operations with signed numbers, algebraic expressions, and polynomials; involves solving linear equations and geometric applications. Lab included. Prerequisite: MATH 0300 or equivalent. 3 credit hours.

Note: May not be used to satisfy the requirements of an associate degree.

MATH 0305 Beginning Algebra

Study of rational numbers, expressions, linear and quadratic equations, absolute value equations, polynomials, factoring, rational expressions, rational equations, exponents and graphing linear equations. Lab included. Prerequisite: MATH 0302 or equivalent. 3 credit hours.

Note: May not be used to satisfy the requirements of an associate degree.

MATH 0310 Intermediate Algebra

Study of exponents, functions, radical expressions and equations, quadratic equations and functions, linear and quadratic inequalities, systems of equations and inequalities, and graphing linear equations and inequalities. Lab included. Prerequisite: MATH 0305 or equivalent. 3 credit hours.

Note: May not be used to satisfy the requirements of an associate degree.

MATH 1314 College Algebra

Relations and functions: linear, polynomial, rational, exponential, logarithmic and inverse functions, composition of functions, absolute value, theory and systems of equations, complex numbers, matrices, sequences, and the binomial theorem. Graphing calculator required. Lab required. Prerequisite: MATH 0310 or TSI placement. 3 credit hours.

Note: Students may take this course or MATH 1414 for credit but not both.

MATH 1316 Trigonometry

Angular measure, functions of angles, identities, solution of triangles, equations, inverse trigonometric functions, complex numbers, and polar coordinates. Graphing calculator required. Prerequisite: MATH 1314, MATH 1414, or TSI placement. 3 credit hours.

MATH 1324 Finite Mathematics

Equations, inequalities, functions, matrices, linear programming including the simplex method, probability, and statistics. Graphing calculator required. Lab required. Prerequisite: MATH 0310 or TSI placement. 3 credit hours.

MATH 1325 Calculus for Business and Economics I

Differential and integral calculus, including exponential and logarithmic functions, average value of a function, and basic differential equations. Graphing calculator required. Lab required. Prerequisite: MATH 1314, MATH 1324, or MATH 1414. 3 credit hours.

MATH 1332 Contemporary Mathematics

For liberal arts and technical majors other than engineering. Involves statistics, counting methods, probability, scheduling, circuits, and other topics in management science and consumer mathematics. Prerequisite: MATH 0305 or TSI placement. 3 credit hours.

MATH 1342 Statistics

Data collection and tabulation, measures of central tendency, correlation, linear regression, statistical distributions, probability, and hypothesis testing with applications in various fields. Graphing calculator required. Lab required. Prerequisite: MATH 0310 or TSI placement. 3 credit hours.

MATH 1350 Fundamentals of Mathematics I

Concepts of sets, functions, numeration systems, number theory and properties of the natural numbers, integers, rational and real number systems with an emphasis on problem solving and critical thinking. This course is designed specifically for students who seek middle grade (4-8) teacher certification and includes the foundational math concepts taught at the middle grade level. Prerequisite: MATH 1314 or MATH 1414. 3 credit hours.

MATH 1351 Fundamentals of Mathematics II

Concepts of geometry, probability and statistics, as well as applications of the algebraic properties of real numbers to concepts of measurement with an emphasis on problem solving and critical thinking. This course is designed specifically for students who seek middle grade (4-8) teacher certification and includes the foundational math concepts taught at the middle grade level. Prerequisite: MATH 1350. 3 credit hours.

MATH 1370 Introduction to the History of Mathematics

Study of the development of mathematics from ancient to modern times through the exploration of mathematical problems and techniques, the study of famous mathematicians, and the study of the relationship between mathematics and the societies and cultures in which it developed. Lab required. Prerequisite: MATH 0310 or TSI placement. 3 credit hours.

MATH 1376 Calculus for Business and Economics II

Continuation of MATH 1325. In this course, application of differential equations, functions of several variables, Lagrange Multipliers, Least Squares Modeling, multiple integrals and infinite series will be covered. Basic concepts are related to multivariable calculus. Graphing calculator required. Lab required. Prerequisite: MATH 1325. 3 credit hours.

MATH 1414 College Algebra

Study of relations and functions that address linear, absolute value, polynomial, rational, exponential, logarithmic, inverse, and composition of functions. The theory of equations, complex numbers, systems of equations, matrices, sequences, and the binomial theorem are also studied. This is a slow-paced college algebra course, and the instructor will review basic algebra as needed. Graphing calculator required. Prerequisite: MATH 0310 or TSI placement. 4 credit hours.

Note: Students may take this course or MATH 1314 for credit but not both.

MATH 2305 Discrete Mathematics

Introductory mathematical logic, algorithms, induction, relations and functions, basic counting techniques, and applications to computing devices. Lab required. Prerequisite: MATH 1376, MATH 2413, or MATH 2417. 3 credit hours.

MATH 2318 Linear Algebra

Linear equations, matrices, real vector spaces, linear transformations, and eigenvectors. Graphing calculator required. Prerequisite: MATH 2414 or MATH 2419. 3 credit hours.

MATH 2320 Differential Equations

First order differential equations, including exact, separable, linear, and substitution methods. Higher order linear differential equations, power series methods, Laplace transforms, systems of first order linear differential equations, and Euler numerical method. Graphing calculator required. Prerequisite: MATH 2414 or MATH 2419. 3 credit hours.

MATH 2373 Matrices, Vectors, and Linear Programming

Not for science majors. A study of matrices, vectors, determinants, inverses, system of linear equations, and linear programming with applications. Graphing calculator required. Prerequisite: MATH 1314 or MATH 1414. 3 credit hours.

MATH 2412 Pre-Calculus for Mathematics and Science

Functions and analytic geometry including polynomial, rational, exponential, logarithmic, and trigonometric functions, complex numbers, vectors, conics, transformation of coordinates, polar coordinates, and parametric equations. Emphasis on mathematical reasoning in preparation for calculus. Graphing calculator required. Prerequisite: MATH 1316. 4 credit hours.

MATH 2413 Calculus I

Limits, continuity, derivatives, applications of the derivative, definite, and indefinite integrals. Graphing calculator required. Lab included. Prerequisite: MATH 2412. 4 credit hours.

MATH 2414 Calculus II

Applications of integration, techniques of integration, infinite series, parametric equations and polar functions, differential equations, and vectors. Graphing calculator required. Lab included. Prerequisite: MATH 2413. 4 credit hours.

MATH 2415 Calculus III

Vectors in two and three dimensions, vector-valued functions, functions of several variables, partial differentiation, multiple integration, and calculus of vector fields. Graphing calculator required. Lab included. Prerequisite: MATH 2414 or 2419. 4 credit hours.

MATH 2417 Accelerated Calculus I*

A study of limits, continuity, the derivative, applications of the derivatives, the definite and indefinite integral and their applications, techniques of integration, derivatives and integrals of trigonometric, logarithmic, hyperbolic, and exponential functions, separable differential equations and their applications. Graphing calculator required. Lab included. Prerequisite: MATH 2412. 4 credit hours.

**This course is included in the Center for Advanced Study in Mathematics and Natural Sciences (CASMS) program. Please see page 72 for further information.*

MATH 2419 Accelerated Calculus II*

A study of infinite series, parametric equations and polar functions, vectors in two and three dimensions, vector-valued functions, functions of several variables, cylindrical and spherical coordinates, partial derivatives, multiple integrals and their applications. Graphing calculator required. Lab included. Prerequisite: MATH 2414 or MATH 2417. 4 credit hours.

**This course is included in the Center for Advanced Study in Mathematics and Natural Sciences (CASMS) program. Please see page 72 for further information.*

MDCA 1343 Medical Insurance/Billing

Emphasizes accurate ICD and CPT coding of office procedures for payment/reimbursement by patient or third party and prevention of insurance fraud. Additional topics may include managed care or medical economics. Medical insurance billing included. Prerequisite: SRGT 1301. 3 credit hours. (W)

MRKG 1301 Customer Relations

General principles of customer service including skills, knowledge, attitudes, and behaviors. 3 credit hours. (W)

MRKG 1302 Principles of Retailing

Introduction to the retailing environment and its relationship to consumer demographics, trends, and traditional/nontraditional

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retailing markets. The employment of retailing techniques and the factors that influence modern retailing. 3 credit hours. (W)

MRKG 1311 Principles of Marketing

Introduction to the marketing functions; identification of consumer and organizational needs; explanation of economic, psychological, sociological, and global issues; and description and analysis of the importance of marketing research. 3 credit hours. (W)

MRKG 1380 Cooperative Education – Marketing/Marketing Management, General

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

MRKG 2333 Principles of Selling

Overview of the selling process. Identification of the elements of the communication process between buyers and sellers. Examination of the legal and ethical issues of organizations which affect salespeople. 3 credit hours. (W)

MRKG 2348 Marketing Research and Strategies

A simulated marketing environment for experience in marketing decision-making. Provides practical experiences in analyzing marketing cases. Includes dynamic interrelationships among marketing price, channels of distribution, promotion, and product responsibility. 3 credit hours. (W)

MRKG 2349 Advertising and Sales Promotion

Integrated marketing communications. Includes advertising principles and practices. Emphasizes multi-media of persuasive communication including buyer behavior, budgeting, and regulatory constraints. 3 credit hours. (W)

MRKG 2381 Cooperative Education – Marketing/Marketing Management, General

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

MRMT 1267 Practicum – Medical Transcription/Transcriptionist

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. Contact the Medical Transcription Chair and the Cooperative Work Experience Office. Prerequisite: POFT 1329 or a keyboarding class taken in high school. 2 credit hours. (W)

MRMT 1282 Cooperative Education – Medical Transcription/Transcriptionist

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. Prerequisite: POFT 1329 or a keyboarding class taken in high school. 2 credit hours. (W)

MUAP 1101-1191 Secondary Applied Music

Private instruction in the area of the student's concentration, consisting of one 30-minute lesson per week. Students must remain enrolled 1 credit hour of a MUEN course, and attend weekly noon recitals for the semester. Prerequisite: Audition. Contact Music Department for permission prior to registering. 1 credit hour.

Note: Students may receive credit for up to 20 credit hours of any combination of MUAP courses. This includes MUAP 1101-MUAP 1291.

MUAP 1101 Violin

MUAP 1105 Viola

MUAP 1109 Cello

MUAP 1113 Double Bass

MUAP 1115 Electric Bass

MUAP 1117 Flute

MUAP 1121 Oboe

MUAP 1125 Bassoon

MUAP 1129 Clarinet

MUAP 1133 Saxophone

MUAP 1137 Trumpet

MUAP 1141 French Horn

MUAP 1145 Trombone

MUAP 1149 Baritone

MUAP 1153 Tuba

MUAP 1157 Percussion

MUAP 1158 Drum Set

MUAP 1161 Guitar

MUAP 1162 Jazz Guitar

MUAP 1163 Steel String Guitar

MUAP 1165 Organ

MUAP 1169 Piano

MUAP 1170 Jazz Piano

MUAP 1177 Harp

MUAP 1181 Voice

MUAP 1187 Composition

MUAP 1188 Electroacoustic Composition

MUAP 1189 Songwriting

MUAP 1190 Arranging

MUAP 1191 Conducting

MUAP 1201-1291 Principal Applied Music

For full-time music majors only. Private instruction in the area of the student's concentration, consisting of one 50-minute lesson per week. Students must remain enrolled in at least 4 music credits of MUSI,

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MUSB, or MUSC courses and at least 1 credit hour of a MUEN course for the semester. Prerequisite: Audition. Contact Music Department for permission prior to registering. 2 credit hours.

Note: Students may receive credit for up to 20 credit hours of any combination of MUAP courses. This includes MUAP 1101-MUAP 1291.

MUAP 1201 Violin

MUAP 1205 Viola

MUAP 1209 Cello

MUAP 1213 Double Bass

MUAP 1215 Electric Bass

MUAP 1217 Flute

MUAP 1221 Oboe

MUAP 1225 Bassoon

MUAP 1229 Clarinet

MUAP 1233 Saxophone

MUAP 1237 Trumpet

MUAP 1241 French Horn

MUAP 1245 Trombone

MUAP 1249 Baritone

MUAP 1253 Tuba

MUAP 1257 Percussion

MUAP 1258 Drum Set

MUAP 1261 Guitar

MUAP 1262 Jazz Guitar

MUAP 1263 Steel String Guitar

MUAP 1265 Organ

MUAP 1269 Piano

MUAP 1270 Jazz Piano

MUAP 1277 Harp

MUAP 1281 Voice

MUAP 1287 Composition

MUAP 1288 Electroacoustic Composition

MUAP 1289 Songwriting

MUAP 1290 Arranging

MUAP 1291 Conducting

MUEN 1121 Jazz Lab Band

Participation in a large band concentrating on jazz and commercial music performance styles. Consisting of 16-21 instrumentalists and one vocalist, the band performs both traditional and contemporary jazz literature. A number of performances both on and off campus are given each semester (including some travel) and include an annual out-of-state festival performance. Prerequisite: Audition. 1 credit hour.

Note: Students may repeat this course and MUEN 1122 and MUEN 1123 for up to 8 credit hours.

MUEN 1122 TI Stage Band

Open to employees of Texas Instruments; the band performs a variety of music literature. 1 credit hour.

Note: Students may repeat this course and MUEN 1121 and MUEN 1123 for up to 8 credit hours.

MUEN 1131 New Music Ensemble

Performs experimental, avant garde, electronic, and contemporary music for mixed media ensemble. Prerequisite: Audition. 1 credit hour.

Note: Students may repeat MUEN 1131, MUEN 1132, MUEN 1133, MUEN 1134, MUEN 1135, MUEN 1136, MUEN 1137, MUEN 1138, MUEN 1139, and MUEN 1140 for up to 8 credit hours.

MUEN 1132 Keyboard Ensemble

Traditional piano literature for multiple performers and arrangements for electronic keyboard ensemble. Several performances each semester. Prerequisite: Audition. 1 credit hour.

Note: Students may repeat MUEN 1131, MUEN 1132, MUEN 1133, MUEN 1134, MUEN 1135, MUEN 1136, MUEN 1137, MUEN 1138, MUEN 1139, and MUEN 1140 for up to 8 credit hours.

MUEN 1133 Woodwind Ensemble

A small group of woodwinds performs traditional classical repertoire. Prerequisite: Audition. 1 credit hour.

Note: Students may repeat MUEN 1131, MUEN 1132, MUEN 1133, MUEN 1134, MUEN 1135, MUEN 1136, MUEN 1137, MUEN 1138, MUEN 1139, and MUEN 1140 for up to 8 credit hours.

MUEN 1134 Brass Ensemble

A small group of brass players performs traditional classical repertoire. Prerequisite: Audition. 1 credit hour.

Note: Students may repeat MUEN 1131, MUEN 1132, MUEN 1133, MUEN 1134, MUEN 1135, MUEN 1136, MUEN 1137, MUEN 1138, MUEN 1139, and MUEN 1140 for up to 8 credit hours.

MUEN 1135 Expressions Combo

Expressions Combo is a small ensemble (4-6) of musicians who serve as the rhythm section for the Expressions Vocal Jazz ensemble. In addition to rehearsing and performing with Expressions, the combo also prepares its own arrangements and performs as an independent ensemble. Typical repertoire includes bebop, Latin, and fusion standards. This ensemble may have several performances each semester. This group may have an annual tour. Prerequisite: Audition. 1 credit hour.

MUEN 1136 Chamber Ensemble

A mixed instrumentation of wind and string players performs traditional classical repertoire. Prerequisite: Audition. 1 credit hour.

Note: Students may repeat MUEN 1131, MUEN 1132, MUEN 1133, MUEN 1134, MUEN 1135, MUEN 1136, MUEN 1137, MUEN 1138, MUEN 1139, and MUEN 1140 for up to 8 credit hours.

MUEN 1137 Guitar Ensemble

A small group of guitarists performs traditional classical repertoire. Prerequisite: Audition. 1 credit hour.

Note: Students may repeat MUEN 1131, MUEN 1132, MUEN 1133, MUEN 1134, MUEN 1135, MUEN 1136, MUEN 1137, MUEN 1138, MUEN 1139, and MUEN 1140 for up to 8 credit hours.

MUEN 1138 Percussion Ensemble

A small group of percussion players performs jazz and traditional repertoire. Prerequisite: Audition. 1 credit hour.

Note: Students may repeat MUEN 1131, MUEN 1132, MUEN 1133, MUEN 1134, MUEN 1135, MUEN 1136, MUEN 1137, MUEN 1138, MUEN 1139, and MUEN 1140 for up to 8 credit hours.

MUEN 1139 String Ensemble

A small group of string players performs traditional classical repertoire. Prerequisite: Audition. 1 credit hour.

Note: Students may repeat MUEN 1131, MUEN 1132, MUEN 1133, MUEN 1134, MUEN 1135, MUEN 1136, MUEN 1137, MUEN 1138, MUEN 1139, and MUEN 1140 for up to 8 credit hours.

MUEN 1140 Jazz Combo

Participation in a small jazz ensemble concentrating on jazz and commercial music performance styles. Ensemble consists of 4-9 instrumental/vocal members. Repertoire includes instrumental and vocal music typical of small jazz groups. A number of performances both on and off campus are given each semester (including some travel) and include an annual out-of-state festival performance or tour. Prerequisite: Audition or consent of instructor. 1 credit hour.

Note: Students may repeat MUEN 1131, MUEN 1132, MUEN 1133, MUEN 1134, MUEN 1135, MUEN 1136, MUEN 1137, MUEN 1138, MUEN 1139, and MUEN 1140 for up to 8 credit hours.

MUEN 1141 Collin County Chorale

Open to all interested students. This mixed choral ensemble studies and performs a wide variety of music representing the choral literature. This ensemble may have several performances each semester. This group may have an annual tour. Prerequisite: Prior school/college choral experience or consent of the director. 1 credit hour.

Note: Student may repeat this course an MUEN 1142 for up to 8 credit hours.

MUEN 1142 Expressions Vocal Jazz Ensemble

This group works on a wide variety of jazz styles throughout the year. They also work in conjunction with a jazz combo allowing them to experience solo jazz singing. This select ensemble of 10-16 singers has several performances each semester. This group may have an annual tour. Prerequisite: Audition. 1 credit hour.

Note: Student may repeat this course and MUEN 1141 for up to 8 credit hours.

MUEN 1151 Chamber Singers

A select vocal ensemble consisting of approximately 16 singers. Repertoire includes madrigals and choral literature appropriate for the smaller ensemble. There may be several performances on and off campus each semester. This group may have an annual tour. Prerequisite: Audition. 1 credit hour.

Note: Student may repeat this course an MUEN 1152 for up to 8 credit hours.

MUEN 1152 Musical Theatre Ensemble

Study and performance of works in the musical theatre repertoire. Students perform in a final concert at the end of each semester. 1 credit hour.

Note: Student may repeat this course and MUEN 1151 for up to 8 credit hours.

MUSB 1301 Legal Aspects of the Entertainment Industry

A course in the basics of copyright law and the various agreements used in the entertainment industry with emphasis on contracts used by music publishers, record companies, artist management, record producers, film and television producers, and booking agencies. Prerequisite: MUSB 1305. 3 credit hours. (W)

MUSB 1305 Survey of the Music Business

An overview of the music industry including songwriting, live performance, the record industry, music merchandising, contracts and licenses, and career opportunities. 3 credit hours. (W)

MUSB 2301 Music Marketing and Merchandising

A study of the methods of distribution, retailing, and wholesaling. Topics include the basics of purchasing, inventory control, shipping and receiving, returns, pricing and cost analysis, merchandising, retail display, sales promotion, advertising, security and shrinkage, personnel management, and relationships between retailers and distributors. Prerequisite: MUSB 1305. 3 credit hours. (W)

MUSB 2380 Cooperative Education – Music Management and Merchandising

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

MUSC 1171 Commercial Class Piano I

Formerly MUSI 1171

Fundamentals of keyboard technique for the non-music major or for the commercial music student. Lab required. 1 credit hour. (W)

MUSC 1172 Commercial Class Piano II

Formerly MUSI 1172

A continuation of MUSC 1171 with added emphasis on development of sight-reading skills, repertoire, and keyboard technique. Lab required. Prerequisite: MUSC 1171 or consent of instructor. 1 credit hour. (W)

MUSC 1209 Conducting Class

Introduction to the art of conducting including regular and irregular beat patterns, subdivision, and beat pattern varieties applied to musical literature and practical experiences. 2 credit hours. (W)

MUSC 1303 History of Popular Music

A study of commercial music industry trends and developments through historical analysis. Topics include the evolution of the music industry with emphasis on the development of popular musical styles and the impact of culture and technology on industry growth. 3 credit hours. (W)

MUSC 1321 Songwriting

Introduction to the techniques of writing marketable songs including the writing of lyrics and melodies, setting lyrics to music, developing lyrical and musical “hooks,” analyzing the marketplace, and developing a production plan for a song demo. 3 credit hours. (W)

MUSC 1323 Audio Electronics

Formerly MUSC 2343

Basic concepts in electricity, Ohm’s Law, circuit analysis and troubleshooting audio problems. Topics include soldering techniques, audio electronic alignment procedures for tape machines, console maintenance, and sound reinforcement equipment maintenance. Lab required. Corequisite: MUSC 1327. Offered spring semester only. 3 credit hours. (W)

MUSC 1327 Audio Engineering I

Overview of the recording studio. Topics include basic studio electronics and acoustic principles, wave form analysis, microphone concepts and miking techniques, studio set up and signal flow, recording console theory, signal processing concepts, recorder principles and operation, and an overview of mixing and editing. Taught in express format. Lab required. Prerequisite: Skills assessment. 3 credit hours. (W)

MUSC 1330 Computer Music Notation I

Formerly MUSC 1329

Survey of music notation software and applications with skill development in computer music notation. Lab required. Prerequisite: MUSI 1301. 3 credit hours. (W)

MUSC 1331 MIDI I

History and evolution of Musical Instrument Digital Interface (MIDI) systems and applications, the MIDI language, and applications in the studio environment using software-based sequencing programs. Lab required. 3 credit hours. (W)

MUSC 1333 Synthesis I

Sound synthesis including additive, subtractive, and AM and FM synthesizers. Lab required. 3 credit hours. (W)

MUSC 1405 Live Sound I

Formerly MUSC 2405

Principles and applications used in sound reinforcement for public address design. Topics include public address research and design, stage set-up and control, and public address packaging. Lab required. Corequisite: MUSC 1327. 4 credit hours. (W)

MUSC 2314 Improvisation Theory I

A study of the chordal structures of jazz, rock, country, and fusion with emphasis on extemporaneous performance. Chord/scale relationships, common “licks” and the jazz “language” will be covered. 3 credit hours. (W)

MUSC 2330 Commercial Music Arranging and Composition

Presentation of arranging and composition for projects in industry recognized genres including songwriting, show writing, video, and film. Class covers popular nomenclature/theory, discovering music sources, common orchestration, writing for rhythm section and manuscript for individual parts. 3 credit hours. (W)

MUSC 2345 Synthesis II

Study of sound synthesis – including hybrid synthesis and digital sampling. Lab required. Prerequisite: MUSC 1333. 3 credit hours. (W)

MUSC 2351 Audio for Video

Advanced audio techniques for video production. Topics include synchronization, time code, automated mixdown, audio post production for video, and nonlinear and traditional editing techniques. Lab required. 3 credit hours. (W)

MUSC 2355 MIDI II

Sequencer operation, synchronization in the interaction of multiple recording and playback systems. Lab required. Prerequisite: MUSC 1331. 3 credit hours. (W)

MUSC 2427 Audio Engineering II

Implementation of the recording process, microphones, audio console, multitrack recorder, and signal processing devices. Taught in express format. Lab required. Prerequisite: MUSC 1327 and Skills Assessment. 4 credit hours. (W)

MUSC 2447 Audio Engineering III

Procedures and techniques in recording and manipulating audio. Topics include advanced hard disk based digital audio editing, linear and nonlinear digital multitrack recording, and advanced engineering project completions. Taught in express format. Lab required. Prerequisite: MUSC 2427. 4 credit hours. (W)

MUSC 2448 Audio Engineering IV

Examination of the role of the producer including recording, mixing, arranging, analyzing projects, session planning, communication, budgeting, business aspects, technical considerations, and music markets. Taught in express format. Lab required. Prerequisite: MUSC 2447. 4 credit hours. (W)

MUSI 1116 Aural Skills I

Skills developed include sight-singing, solmization, and melodic and harmonic dictation. Corequisite: MUSI 1311. 1 credit hour.

Note: Student may repeat this course and MUSI 1117 for up to 6 credit hours.

MUSI 1117 Aural Skills II

Further emphasis on diatonic sight-singing and dictation. Prerequisite: MUSI 1116. Corequisite: MUSI 1312. 1 credit hour.

Note: Student may repeat this course and MUSI 1116 for up to 6 credit hours.

MUSI 1157 Opera Workshop I

Performance of portions or complete operas and the study of the integration of music, acting, and staging of an opera. Prerequisite: Consent of instructor. 1 credit hour.

Note: Student may repeat this course and MUSI 1158 for up to 4 credit hours.

MUSI 1158 Opera Workshop II

A continuation of Opera Workshop I. Developing advanced techniques I the integration of music, acting, and staging an opera. Prerequisite: MUSI 1157. 1 credit hour.

Note: Student may repeat this course and MUSI 1157 for up to 4 credit hours.

MUSI 1159 Musical Theatre Workshop I

Study and performance of works in the musical theatre repertoire. Prerequisite: Consent of instructor. 1 credit hour.

Note: Student may take MUSI 1159 or DRAM 1161 for credit but not both.

MUSI 1160 Italian Diction

Presents the phonetic sounds of the Italian language, the principles of which will be applied to required vocal repertoire. Required for voice majors, but open to all students with consent of instructor. 1 credit hour.

MUSI 1161 English Diction

Presents the phonetic sounds of the English language, the principles of which will be applied to required vocal repertoire for transfer music majors. Required for voice majors, but open to all students with consent of instructor. 1 credit hour.

MUSI 1181 Beginning Piano I

Fundamentals of keyboard technique for music majors, but open to all students. Five finger major and minor positions, two octave major scales, arpeggios, sight reading, elementary chord progressions, and elementary piano repertoire. This three-hour per week course covers chapters 1-15 of *Alfred's Group Piano for Adults, Volume 1*. Lab required. 1 credit hour.

Note: Student may repeat MUSI 1181, MUSI 1182, MUSI 2181, and MUSI 2182 for a total of 4 credit hours.

MUSI 1182 Beginning Piano II

Development on two octave minor scales, arpeggios, diatonic chord progressions, and piano repertoire. This three-hour per week course covers chapters 16-30 of *Alfred's Group Piano for Adults, Volume 1*. Lab

required. Prerequisite: MUSI 1172 or MUSI 1181. 1 credit hour.

Note: Student may repeat MUSI 1181, MUSI 1182, MUSI 2181, and MUSI 2182 for a total of 4 credit hours.

MUSI 1183 Class Voice I

Class instruction in the fundamentals of singing including posture, breath support, vocal production, and diction. For the non-vocal major. 1 credit hour.

MUSI 1184 Class Voice II

A continuation of MUSI 1183 with further emphasis on proper technique and vocal literature. May be repeated for up to 3 credit hours. Prerequisite: MUSI 1183. 1 credit hour.

MUSI 1192 Class Guitar I

Class instruction in the fundamentals of beginning guitar. For the non-guitar major. 1 credit hour.

MUSI 1193 Class Guitar II

Continuation of MUSI 1192 employing advanced reading skills, chord structures, and techniques. Prerequisite: MUSI 1192. 1 credit hour.

MUSI 1301 Music Fundamentals

Introduces the elements of music theory: scales, intervals, keys, triads, elementary ear training, keyboard harmony, notation, meter, and rhythm. 3 credit hours.

MUSI 1306 Music Appreciation

Understanding music through the study of cultural periods, major composers, and musical elements. For non-music majors only. Music majors must take MUSI 1307. 3 credit hours.

MUSI 1307 Introduction to Music Literature

Study of selected works in music literature from major periods of music history. Includes musical styles, forms, and composers from the Medieval period to the present. Guided listening experiences are an important part of the course. Required for all music majors. Offered spring semesters. 3 credit hours.

MUSI 1310 History of Jazz

Development of jazz music in the 20th century studied through text, audio, and video recordings. Includes the personalities and elements that shaped jazz and the social issues of the times as displayed by the music of each decade. 3 credit hours.

MUSI 1311 Music Theory I

The second course in the music theory sequence which investigates modes, transposition, cadences and non-harmonic tones, phrase structure, musical textures, and four-part voice leading. Related keyboard and aural skills are covered in corequisite classes. Prerequisite: MUSI 1301. Corequisites: MUSI 1116 and MUSI 1181. 3 credit hours.

MUSI 1312 Music Theory II

Development of melody harmonization through the understanding of harmonic progression, usage of 7th chord, elementary modulation, secondary harmonies, and large formal divisions. Related keyboard and aural skills are covered in corequisite classes. Prerequisite: MUSI 1311. Corequisites: MUSI 1117 and MUSI 1182. Offered in spring semesters only. 3 credit hours.

MUSI 1386 Introduction to Composition

Fundamentals of music composition including structural and formal composition techniques, computer-based musical notation, and basic MIDI sequencing. Prerequisite: MUSI 1301. 3 credit hours.

MUSI 2116 Aural Skills III

Continuation of MUSI 1117. Aural study of superimposition, singing modulations to closely related keys, melodic and harmonic modulations, and compound intervals. Prerequisite: MUSI 1117. Corequisite: MUSI 2311. 1 credit hour.

MUSI 2117 Aural Skills IV

Final course in Aural Skills sequence. Singing remote modulations and difficult melodies: aural study of unusual and mixed meters: altered chords: 9th, 11th, and 13th chords. Prerequisite: MUSI 2116. Corequisite: MUSI 2312. 1 credit hour.

MUSI 2159 Musical Theatre Workshop II

A continuation of Music Theatre Workshop I. Developing advanced techniques in presenting works from the musical theatre repertoire. Prerequisite: DRAM 1161 or MUSI 1159. 1 credit hour.

Note: Student may take DRAM 1162 or MUSI 2159 for credit but not both.

MUSI 2160 German Diction

Presents the phonetic sounds of the German language, the principles of which will be applied to required vocal repertoire for transfer music students. Required for voice majors, but open to all students with consent of instructor. 1 credit hour.

MUSI 2161 French Diction

Presents the phonetic sounds of the French language, the principles of which will be applied to required vocal repertoire for transfer music majors. Required for voice majors, but open to all students with consent of instructor. 1 credit hour.

MUSI 2181 Beginning Piano III

Continuation of MUSI 1182. Development of three octave scales and arpeggios, accompaniment patterns, intermediate and 20th century piano repertoire, advanced sight reading skills. Lab required. Prerequisite: MUSI 1182. 1 credit hour.

Note: Student may repeat MUSI 1181, MUSI 1182, MUSI 2181, and MUSI 2182 for a total of 4 credit hours.

MUSI 2182 Beginning Piano IV

Final course in Beginning Piano sequence; prepares music majors for

piano barrier exams. Culmination of skills including scales and arpeggios four octaves hands together, advanced chord progressions, more difficult piano repertoire, and competency at sight reading. Lab required. Prerequisite: MUSI 2181. 1 credit hour.

Note: Student may repeat MUSI 1181, MUSI 1182, MUSI 2181, and MUSI 2182 for a total of 4 credit hours.

MUSI 2192 Class Guitar III

Continuation of MUSI 1193. Development of two and three octave scales, intermediate guitar repertoire from Renaissance to 20th century music. This two-hour course covers chapters 16-26 of *Solo Guitar Playing, Vol. 1*, by Frederick M. Noad. Prerequisite: MUSI 1193. 1 credit hour.

MUSI 2193 Class Guitar IV

Final course in sequence of guitar classes. Culmination of skills including completion of major and melodic minor scales, more difficult guitar repertoire, and competency in sight-reading. This two-hour course covers chapters 1-9 of *Solo Guitar Playing, Vol. II*, by Frederick M. Noad. 1 credit hour.

MUSI 2311 Music Theory III

Study of music theory from late Renaissance polyphony through Baroque counterpoint and continuing with the chromatic harmonies of the Classic period as found within Sonata Allegro and Rondo formal structures. Related keyboard and aural skills are covered in corequisite classes. Offered fall semesters. Prerequisite: MUSI 1312. Corequisites: MUSI 2116 and MUSI 2181. 3 credit hours.

MUSI 2312 Music Theory IV

Music theory beginning with the extended harmonies of the Romantic era and continuing through 20th century formal processes and techniques. Related keyboard and aural skills are covered in corequisite classes. Offered spring semesters. Prerequisite: MUSI 2311. Corequisites: MUSI 2117 and MUSI 2182. 3 credit hours.

MUSI 2389 Academic Co-op Music

An instructional program designed to integrate on-campus study with practical hands-on work experience in music. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of music. Contact the Cooperative Work Experience Office. 3 credit hours.

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(P) *With the exception of PHED 1146, a student may receive up to 4 credit hours of any combination of PHED course numbers in the 1100-1148 range and PHED 2147.*

PHED 1100 Beginning Weight Training

Introduction to weight training and body building; learn the basic techniques for strength development and cardiovascular conditioning. Various weight machines, free weights and aerobic machines are used to establish an individual fitness program. 1 credit hour. (P)

PHED 1102 Intermediate Weight Training

Designed for the individual who has experience in basic weight training skills and wants to increase their knowledge of training techniques and conditioning. Prerequisite: PHED 1100 or consent of instructor. 1 credit hour. (P)

PHED 1104 Beginning Jogging and Fitness

Develops cardiovascular endurance, flexibility and strength through jogging, stretching and weight training. Physical fitness assessment leads to development of an individual fitness program. 1 credit hour. (P)

PHED 1106 Walking and Fitness

Improve cardiovascular fitness, muscle tone, and flexibility through a vigorous walking and conditioning program. 1 credit hour. (P)

PHED 1111 Basketball

Develops basic skills and strategies through knowledge of the history, rules, and terminology and through participation in game situations. 1 credit hour. (P)

PHED 1112 Soccer

Develops the basic skills and strategies through knowledge of the history, rules and terminology and through participation in game situations. 1 credit hour. (P)

PHED 1113 Softball

Fundamental skills of throwing, batting, fielding, and base running as well as knowledge of the rules and terminology, and participation in game situations. 1 credit hour. (P)

PHED 1114 Volleyball

Individual skills and techniques, application of rules and an introduction to offensive and defensive strategies are stressed. 1 credit hour. (P)

PHED 1115 Archery

Investigates the basic techniques, rules and scoring as well as the history and terminology of archery. 1 credit hour. (P)

PHED 1116 Badminton

History, rules, basic strokes and strategies in singles and doubles play are emphasized through intraclass competition. 1 credit hour. (P)

PHED 1117 Beginning Tennis

Stresses rules, scoring and fundamental techniques for beginners. Participation by skill level for singles and doubles play is made to ensure vigorous activity for cardiovascular fitness. 1 credit hour. (P)

PHED 1118 Intermediate Tennis

Develops and improves each skill level in serving, forehand and backhand drives, lobs and volleys. Performance strategies for both singles and doubles are drilled. Prerequisite: PHED 1117 or consent of instructor. 1 credit hour. (P)

PHED 1120 Beginning Racquetball

Instruction in rules and basic skills; develops the fundamental techniques of court play for beginners. Participation by skill level assures vigorous activity for cardiovascular fitness. 1 credit hour. (P)

PHED 1121 Intermediate Racquetball

Drills in serving, forehand and backhand drives, kill shots, Z shots and lobs help develop strategies for singles and doubles play. Prerequisite: PHED 1120 or consent of instructor. 1 credit hour. (P)

PHED 1123 Beginning Golf

Stresses basic skills, history, terminology and scoring of golf. 1 credit hour. (P)

PHED 1124 Intermediate Golf

Develops advanced skill techniques and strategies of golf. Prerequisite: PHED 1123 or consent of instructor. 1 credit hour. (P)

PHED 1125 Bowling

Teaches ball selection, stance, four-step approach, rules, and scoring procedures. Emphasis on game situations. 1 credit hour. (P)

PHED 1126 Self-Defense

Basic understanding and practical application of fundamental self-defense techniques through physical conditioning. Includes balance, focus, breath control, block and counter, avoiding attack, striking, thrusting and kicking. 1 credit hour. (P)

PHED 1127 Beginning Karate

Introduction to basic techniques, formal exercises, and sparring techniques for the beginner. 1 credit hour. (P)

PHED 1128 Intermediate Karate

Intermediate skills and techniques of karate. Prerequisite: PHED 1127 or consent of instructor. 1 credit hour. (P)

PHED 1129 Introduction to Hatha Yoga

Practice of yogic postures, or "asana", defined as the physical positioning that coordinates breathing with moving and holding still for the purpose of both stretching and strengthening parts of the body. 1 credit hour. (P)

PHED 1130 Intermediate Hatha Yoga

The refinement of the asanas (postures) covered in PHED 1129, with emphasis on breath work. Introduces more advanced asanas; emphasis on integrating yoga into daily routines at home and work. Prerequisite: PHED 1129. 1 credit hour. (P)

PHED 1131 Beginning Swimming

Non-swimmers and beginners are taught basic swimming skills and strokes. Emphasizes personal safety skills and confidence in the water. 1 credit hour. (P)

PHED 1132 Intermediate Swimming

Includes further stroke development in front and back crawl, side stroke, breast stroke, diving and some competitive swimming techniques. Development of cardiovascular endurance is stressed through lap swimming. Prerequisite: PHED 1131 or consent of instructor. 1 credit hour. (P)

PHED 1133 Introduction to Racquet Sports

Introduction to the rules, scoring, and fundamental techniques in the following sport: tennis, badminton, racquetball. Participation will help develop muscular and cardiovascular fitness and hand eye coordination. 1 credit hour. (P)

PHED 1136 Water Aerobics

Fitness level is improved through exercises in the water. A non-impact style of exercises that utilizes water resistance for increasing muscular strength, endurance, and cardiovascular fitness. Swimming skills are not necessary. 1 credit hour. (P)

PHED 1137 Swimming Conditioning

Fitness level is improved through swimming strokes and water exercises. Different swimming programs enhance muscular strength, endurance and cardiovascular fitness. Prerequisite: Proficiency in basic swimming. 1 credit hour. (P)

PHED 1140 Beginning Aerobic Dance

Aerobic exercise and step training incorporating light weights. Includes interval training, which adds a new variation to aerobic endurance and flexibility. 1 credit hour. (P)

PHED 1141 Intermediate Aerobic Dance

Accelerated aerobic exercise incorporating slide, step, kickboxing, hand weights, and floor routines; designed to improve cardiovascular endurance and muscle strength. Prerequisite: PHED 1140 or consent of instructor. 1 credit hour. (P)

PHED 1146 Popular Social Dance

Practice in a variety of contemporary social dances such as: swing, salsa, tango, traditional ballroom, and country-western. 1 credit hour.

Note: Student may repeat this course for up to 4 credit hours.

PHED 1147 Beginning Aerobic Kickboxing/Karate

Cardiovascular and body conditioning are acquired through the use of karate and martial arts techniques set to music and integrating punching bags. 1 credit hour. (P)

PHED 1148 Introduction to Team Sports

Develops the basic skills and strategies through the knowledge of the history, rules, and terminology. Students will participate in game situations. Three of the following activities will be elected for instruction: Basketball, Flag Football, Soccer, Softball, or Volleyball. 1 credit hour. (P)

PHED 1251 Beginning Scuba

Divided into academic training and confined-water (swimming pool) training. Student is required to furnish personal gear (mask, fins, snorkel, and boots) and wet suit (optional). All other equipment is covered in lab fee. Course prepares student to take open water certification exam for NAUI. Certification is not a course requirement. Lab required. Prerequisite: Instructor consent. 2 credit hours.

Note: Student may take either PHED 1251, PHED 1252, or PHED 1253 for credit.

PHED 1252 Advanced Open Water Scuba

Combines practical diving techniques, CPR/First Aid training, and rescue diver training. Required academic knowledge includes deep diving, underwater navigation, and night (limited visibility) techniques. Two optional (instructor specified) techniques will be required. Rescue diving includes diver rescue and emergency management. Prerequisite: Open water certification (NAUI, PADI or equivalent) and instructor consent. 2 credit hours.

Note: Student may take either PHED 1251, PHED 1252, or PHED 1253 for credit.

PHED 1253 Lifeguard Training

Skills, methods, and techniques involved in lifesaving and water safety are reviewed. Successful completion leads to American Red Cross Lifesaving Certification. Prerequisite: Must meet current American Red Cross requirements for Lifeguard Training. 2 credit hours.

Note: Student may take either PHED 1251, PHED 1252, or PHED 1253 for credit.

PHED 1301 Foundations of Sport and Physical Activity

Historical foundations, principles and philosophical aspects of sport and physical activity are studied. Investigates teacher qualifications, career opportunities, and leaders affecting the discipline in the United States. 3 credit hours.

PHED 1304 Personal Health

Acquire the knowledge to improve the quality of one's life, protect yourself from disease, and become an informed consumer. Nutrition, mental health, physical fitness, drugs, and sex education are discussed. 3 credit hours.

PHED 1306 Safety and First Aid

Learn to recognize, evaluate and prioritize the first aid needs of individuals in emergency situations. Lectures, demonstrations and practical experience provide qualified students with American Red Cross certification. 3 credit hours.

PHED 1338 Concepts of Physical Fitness and Wellness

Introduces basic concepts of fitness, nutrition, health promotion, and disease prevention. Gain knowledge to make intelligent choices that contribute to a healthy lifestyle. Incorporates both lecture and physical activity laboratories. 3 credit hours.

PHED 2147 Intermediate Aerobic Kickboxing

Further increases in physical fitness are obtained through aerobic kickboxing/karate, stretching and body toning, and muscular endurance exercises. Prerequisite: PHED 1147 or consent of instructor. 1 credit hour. (P)

PHED 2255 Water Safety Instruction

Successful completion allows the student to take the standardized test given by the American Red Cross examiners for certification as a water safety instructor. Prerequisite: Must be 17 or older with an American Red Cross Level 4 swimming ability. 2 credit hours.

PHED 2389 Academic Co-op Physical Education

Integrates on-campus study with practical hands-on work experience in physical education. In conjunction with class seminars, the student will set specific goals and objectives in the study of physical education. Contact the Cooperative Work Experience Office. 3 credit hours.

PHIL 1301 Introduction to Philosophy

Critical and reflective thinking as applied to basic problems of existence and to the meaning of human life. Selective philosophical problems are examined through the views of major philosophers. Includes ancient, medieval, and modern thought. 3 credit hours.

PHIL 1304 Comparative Religion

Study of religious traditions: Eastern, Western, ancient, and modern. Emphasis on such topics as the nature of God, religious experience, immortality, and human freedom. 3 credit hours.

PHIL 2303 Introduction to Logic

Symbolic and informal logic; emphasis on logical argument, fallacies, inductive and deductive proof, and correct reasoning. 3 credit hours.

PHIL 2306 Introduction to Ethics

Traditional theories and problems in the field of moral philosophy. Using seminal works from the history of western philosophical thought, this course examines the meaningfulness of ethical discourse and explores what makes an action right or wrong, good or evil. Includes contemporary issues in light of historical ethics. 3 credit hours.

PHIL 2307 Introduction to Social and Political Philosophy

Focuses on the concepts of force, power, and authority as well as on natural rights, justice, education, freedom, and responsibility. 3 credit hours.

PHIL 2321 Philosophy of Religion

A critical investigation of important philosophical concerns with respect to religious ideas of faith, such as the existence and nature of God, the problem of evil, and ideas of the sacred and profane. 3 credit hours.

PHIL 2371 Philosophy of Art/Aesthetics

Such a course of study examines the place of art in human life by asking questions concerning beauty as a transcendental phenomena and by asking what is the nature or essence of an artistic production (which is spoken about in terms other than utility). Furthermore, the course questions or discusses the work of art itself as a product of creativity, imagination, and most importantly, understanding. 3 credit hours.

PHTC 1306 Fashion Photography

An exploration of fashion photography in terms of trends and techniques included in studio and location work. Emphasis on model direction and lighting control. Lab required. Prerequisites: ARTS 2356 or PHTC 1311. 3 credit hours. (W)

PHTC 1311 Fundamentals of Photography/Digital

An introduction to camera operation and image production, composition, supplemental lighting, and the use of exposure meters and filters. Lab required. 3 credit hours. (W)

PHTC 1325 Photographic Science I

An examination of the principles and theories governing photography. Emphasis on analysis of problems involving optics, light, chemistry, and math as they pertain to field practices. Tools and methods will utilize the view camera and zone system. Lab required. Prerequisite: ARTS 2356 or PHTC 1311. 3 credit hours. (W)

PHTC 1328 Photographic Studio Management

Examination of photographic management, pricing, market analysis, promotion, networking, job acquisition, photographic equipment analysis, and photo lab selection. Lab required. 3 credit hours. (W)

PHTC 1341 Color Photography I

Examination of color theory as it applies to photography. Emphasis on color concepts and the intricacies of seeing and photographing in color. Lab required. Prerequisite: ARTS 2356 or PHTC 1311. 3 credit hours. (W)

PHTC 1343 Expressive Photography

A study of formal, professional, and individual uses of photography by applying photographic technology to personalized needs. Emphasis on creative visual thinking and problem solving and the exploration of personal vision. Lab required. Prerequisite: ARTS 2356 or PHTC 1311. 3 credit hours. (W)

PHTC 1345 Illustrative Photography I

Instruction in the technical aspects involved in commercial photography. Topics include lighting equipment, techniques of production photography, reproduction principles, illustrative techniques, and advertising. Lab required. 3 credit hours. (W)

PHTC 1347 Landscape Photography

Skill development in the inspection of the landscape visually and photographically utilizing various camera formats. Topics include exploration of historic, geographical, and cultural locations, and review of landscape photographers. Lab required. Prerequisite: ARTS 2356 or PHTC 1311. 3 credit hours. (W)

PHTC 1349 Photo Digital Imaging I

Instruction in the computer as an electronic darkroom. Topics include color and gray scale images and image conversion and presentation. Lab required. Prerequisite: ARTS 2356 or PHTC 1311. 3 credit hours. (W)

PHTC 1351 Photojournalism I

Presentation of photographic techniques used by photojournalists in newspapers, magazines, and trade publications including news, feature, sports, editorial portraits, and photo essays. Includes a study of layout design and the freelance market. Lab required. Prerequisite: ARTS 2356 or PHTC 1311. 3 credit hours. (W)

PHTC 1353 Portraiture I

A study of the photographic principles applied to portrait lighting, posing, printing and subject rapport. This is a foundation course in photographic portraiture. Assignments are designed to provide both aesthetic challenges as well as comprehensive studio technique. All students must participate in class demos and stick close to prescribed procedures on assignments in order to maintain studio privileges. There will be a mixture of color and black and white materials used, with accent on studio time rather than darkroom or computer time. Lab required. Prerequisite: ARTS 2356 or PHTC 1311. 3 credit hours. (W)

PHTC 2301 Intermediate Photography

Study of advanced exposure and printing techniques, archival printing, toning, and printing for maximum print quality. Introduction to a variety of camera formats. Lab required. Prerequisite: ARTS 2356 or PHTC 1311. 3 credit hours. (W)

PHTC 2331 Architectural Photography

Study of the equipment, processes, and procedures necessary for the photography of building exteriors and interiors, dusk/night and night architectural landscapes, and construction progress. Lab required. Prerequisite: ARTS 2356 or PHTC 1311. 3 credit hours. (W)

PHTC 2341 Color Photography II

Skill development in advanced color image production. Emphasis on use of specialized color techniques and applications. Lab required. Prerequisite: PHTC 1349. 3 credit hours. (W)

PHTC 2349 Photo Digital Imaging II

Continued skill development in the use of the computer for retouching, copying, photographic restoration, color correction, data importation, composite imaging, and background dropout and replacement. Lab required. Prerequisite: PHTC 1351. 3 credit hours. (W)

PHTC 2353 Portraiture II

A continuation of the study of principles of effective portraiture with specific emphasis on unique presentation and environmental and location studies. Lab required. Prerequisite: PHTC 1353. 3 credit hours. (W)

PHYS 1401 General Physics I

Algebra-based physics course for the science major in areas of biology, medicine, and pharmacy. Includes laws of motion, heat, work and energy, and sound. Lab required. Prerequisite: Two years of high school algebra and trigonometry, or equivalent, recommended. 4 credit hours.

PHYS 1402 General Physics II

A continuation of Physics 1401. Includes electricity, magnetism, light, optics, relativity and atomic physics. Lab required. Prerequisite: PHYS 1401. 4 credit hours.

PHYS 1405 Conceptual Physics

This course is a non-mathematical presentation of the elements of classical and modern physics. Emphasizes the understanding of concepts rather than the development of computational skills. There are no math or science prerequisites. What students should bring to this course is curiosity about how the world works. Intended for liberal arts and other non-science majors. Lab required. 4 credit hours.

PHYS 1411 Elementary Astronomy

Introduction to the solar system, stars, stellar groupings and galaxies; telescopes and other astronomical instruments are discussed. Physical characteristics of the motion of bodies in the solar system are studied along with stellar evolution, supernova, black holes, neutron stars, comets, pulsars and galaxies. Laboratory exercises, night observations, and planetarium and observatory visits combine to enhance lecture material. Lab required. Prerequisite: MATH 0305 or equivalent. 4 credit hours.

PHYS 1415 Physical Science I

A unique, fascinating approach to physical science for liberal arts majors and pre-service elementary teachers. Investigations of everyday phenomena of the physical world, which helps students to achieve a well-grounded understanding of selected science concepts as well as the skills that enable and encourage rational independent thinking. Lab required. Prerequisite MATH 0305 or equivalent. 4 credit hours.

PHYS 2389 Academic Co-op Physics

Integrates on-campus study with practical hands-on work experience in physics. In conjunction with class seminars, the student will set specific goals and objectives in the study of physics. Contact the Cooperative Work Experience Office. 3 credit hours.

PHYS 2425 University Physics I*

A calculus-based analysis of classical physics for science majors in fields such as physics, computer science and engineering. Includes laws of motion, force, momentum, work and energy, angular momentum, and

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rotational and oscillatory motion. Lab required. Prerequisite: MATH 2413. Corequisite: MATH 2414. 4 credit hours.

**This course is also offered through the Center for Advanced Study in Mathematics and Natural Sciences (CASMNS). Please see page 72 for further information.*

PHYS 2426 University Physics II*

Addresses electric fields, AC and DC currents, dielectrics, magnetic fields, magnetic properties of matter, inductance, electromagnetism, properties of waves and optics. Lab required. Prerequisites: MATH 2414 and PHYS 2425. 4 credit hours.

**This course is also offered through the Center for Advanced Study in Mathematics and Natural Sciences (CASMNS). Please see page 72 for further information.*

POFI 1301 Computer Applications I – MS Word Productivity

Overview of computer office applications including current terminology and technology. Introduction to computer hardware, software applications, and procedures. This course can be repeated for credit as software changes. Prerequisites: POFT 2301 or keyboarding skills and basic experience with MS Word and Windows. 3 credit hours. (W)

POFI 2301 Word Processing – MS Word

In-depth coverage of word processing software focusing on business applications. This course can be repeated for credit as software changes. Prerequisites: POFT 1329 or a keyboarding class taken in high school and computer skills. 3 credit hours. (W)

POFI 2331 Desktop Publishing for the Office – MS Word and PowerPoint

In-depth coverage of desktop publishing terminology, text editing, and use of design principles to create publishing material using word processing desktop publishing features. Emphasis on layout techniques, graphics, multiple page displays, and business applications. This course can be repeated for credit as software changes. Prerequisite: ITSC 1309 and POFT 1329 or a keyboarding class taken in high school. 3 credit hours. (W)

POFL 1359 Legal Transcription

Comprehensive legal vocabulary. Includes organizing and transcribing documents in a law office. Prerequisite: POFI 1301 or POFI 2301, or POFT 2301. 3 credit hours. (W)

POFL 1380 Cooperative Education – Legal Administrative Assistant/Secretary

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. Prerequisite: POFT 1329 or a keyboarding class taken in high school. 3 credit hours. (W)

POFM 1321 Medical Law and Ethics for Office Personnel

Instruction in the principles, procedures, and regulations governing the legal and ethical relationships among physicians, patients, and health care professionals. Topics include current ethical issues related to the practice of medicine and patient confidentiality. Special emphasis on the medical record and the role of the medical transcriptionist. 3 credit hours. (W)

POFM 1331 Medical Transcription I

Fundamentals of medical transcription including basic reports such as history and physicals, discharge summaries, consultations, operative reports, other medical reports. Emphasis on development of speed and accuracy. Prerequisite/corequisite: POFI 1301 or POFI 2301 and SRGT 1301. 3 credit hours. (W)

POFM 1353 Medical Coding

Presentation and application of basic coding rules, principles, guidelines, and conventions utilizing various coding systems. Prerequisite: SRGT 1301. 3 credit hours. (W)

POFM 1380 Cooperative Education – Medical Administrative/Executive Assistant and Medical Secretary

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. Prerequisite: POFT 1329 of a keyboarding class taken in high school. 3 credit hours. (W)

POFM 2313 Medical Transcription II

Skill development in the production of medical reports including history and physicals, consultations, discharge summaries, operative reports, and other medical reports. Emphasis on speed and accuracy. Prerequisites: POFI 1301 and POFM 1331. 3 credit hours. (W)

POFM 2317 Medical Transcription III

Further skill development in the production of advanced reports including history and physicals, consultations, discharge summaries, operative reports, and other medical reports. Emphasis on increasing speed and accuracy. Prerequisites: POFM 2313, POFT 1307, and POFT 2203. 3 credit hours. (W)

POFT 1127 Introduction to Keyboarding

Skill development in keyboarding with emphasis on alphabet, number, and symbol keys by touch. Skills can be applied to computers, typewriters, and other equipment with keyboards. 1 credit hour. (W)

POFT 1307 Proofreading and Editing

Instruction in proofreading and editing skills necessary to assure accuracy in business documents. Prerequisite/corequisite: POFT 1329 or a keyboarding class taken in high school. 3 credit hours. (W)

POFT 1319 Records and Information Management I

Introduction to basic records and information management. Includes the life cycle of a record, manual and electronic records management, and basic filing procedures and rules. Prerequisite/corequisite: POFT 1329 or a keyboarding class taken in high school. 3 credit hours. (W)

POFT 1329 Beginning Keyboarding

Skill development in the operation of the keyboard by touch applying proper keyboarding techniques. Emphasis on development of acceptable speed and accuracy levels and formatting basic documents. Beginning course for students with no previous typing/keyboarding instruction. 3 credit hours. (W)

POFT 1349 Administrative Office Procedures II

In-depth coverage of office applications with special emphasis on decision making, goal setting, management theories and critical thinking. Prerequisite: POFT 1329 or a keyboarding class taken in high school. 3 credit hours. (W)

POFT 1380 Cooperative Education – Administrative Assistant and Secretarial Science, General

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. Prerequisite: POFT 1329 or a keyboarding class taken in high school. 3 credit hours. (W)

POFT 2203 Speed and Accuracy Building

Review, correct, improve, and/or perfect touch-keyboarding techniques for the purpose of increasing speed and improving accuracy. Prerequisite: POFT 1329 or a keyboarding class taken in high school. 2 credit hours. (W)

POFT 2301 Intermediate Keyboarding

A continuation of keyboarding skills in document formatting, emphasizing speed and accuracy. Emphasis on proofreading, editing, and following instructions, and keying documents from various copy. Prerequisite: POFT 1329 or a keyboarding class taken in high school. 3 credit hours. (W)

POFT 2312 Business Correspondence and Communication

Development of writing and presentation skills to produce effective business communications. Prerequisite: POFT 1329 or a keyboarding class taken in high school. 3 credit hours. (W)

POFT 2380 Cooperative Education – Administrative Assistant and Secretarial Science, General

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. Prerequisite: POFT 1329 or a keyboarding class taken in high school. 3 credit hours. (W)

PSTR 1301 Fundamentals of Baking

Fundamentals of baking including dough, quick breads, pies, cakes, cookies, tarts, and doughnuts. Instruction in flours, fillings, and ingredients. Topics include baking terminology, tool and equipment use, formula conversions, functions of ingredients, and the evaluation of baked products. 3 credit hours. (W)

Note: Culinary lab classes require extended periods of time standing in place, lifting heavy weights (up to 60 pounds), reaching, bending, and working around open flames and with cleaning chemicals.

PSTR 1340 Plated Desserts

Preparation and service of hot and cold desserts with a focus on individual desserts, a la minute preparations, and numerous components within one preparation. Emphasis on station organization, timing, and service coordination for restaurant dessert production. 3 credit hours. (W)

PSTR 1380 Cooperative Education – Baking and Pastry Arts/Baker/Pastry Chef

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. 3 credit hours. (W)

PSTR 2331 Advanced Pastry Shop

A study of classical desserts, French and international pastries, hot and cold desserts, ice creams and ices, chocolate work, and decorations. Emphasis on advanced techniques. 3 credit hours. (W)

PSYC 2301 General Psychology

Introduction to scientific psychology as applied to human behavior, including research methods, physiological factors, learning, motivation, emotions, personality, adjustment, stress, psychological disorders and therapies. These principles will be applied to the human experience. Must demonstrate, by assessment or prerequisite course, placement in READ 0310. 3 credit hours.

PSYC 2302 Applied Psychology

Application of psychological principles to human relations issues in organizational settings. Emphasis on self-understanding, inter-personal relations, and career development. 3 credit hours.

PSYC 2306 Human Sexuality

Understanding of human sexuality – includes an appreciation of different approaches to sexuality as well as an awareness of one's own sexuality and its impact on adjustment to life. 3 credit hours.

Note: Students may receive credit for PSYC 2306 or SOCI 2306 but not for both.

PSYC 2314 Life Span Psychology

A life-span approach to human development – studies the processes of life from conception through adulthood and aging. Includes physical, cognitive, and psychosocial aspects of human growth, development and behavior. These principles will be applied to daily lifestyles. Prerequisite: PSYC 2301. 3 credit hours.

PSYC 2315 Psychology of Adjustment

Gives students deeper insight into their lives and those around them. Includes enhancing self awareness, stress coping, healthy relationships and dealing with loss. 3 credit hours.

PSYC 2316 Psychology of Personality

In-depth study of theories of personality with practical application of each. Methods of personality measurement and assessment are also included. Prerequisite: PSYC 2301. 3 credit hours.

PSYC 2319 Social Psychology

Research and theory regarding social factors that influence human behavior. Focuses on attitudes, interpersonal attraction, aggression, conformity, communication, values, roles and group processes. These principles will be applied to the human experience. Prerequisite: PSYC 2301 or SOCI 1301. 3 credit hours.

PSYC 2371 Death and Dying

This course will explore the social, emotional, and cognitive processes involved in our understanding and acceptance of death and dying. A cross-cultural perspective of these issues will be presented. Topics discussed include the grief and loss, death coping across the life-span, social and institutional contexts of death, hospice alternatives, funerals and wills, organ donation, and ways to help both dying persons and survivors cope. 3 credit hours.

PSYC 2372 Abnormal Psychology

An introduction to the study of abnormal behavior. The course focuses on the causes, symptoms, assessment and treatment of mental disorders, with emphasis on contemporary issues regarding the nature of mental disorders. Prerequisite: PSYC 2301. 3 credit hours.

PSYC 2389 Academic Co-op Psychology

Integrates on-campus study with practical hands-on work experience in psychology. In conjunction with class seminars, the student will set specific goals and objectives in the study of psychology. Contact the Cooperative Work Experience Office. 3 credit hours.

Q

QCTC 1303 Quality Control

Information on quality control principles and applications. Designed to introduce the student to the quality control profession. 3 credit hours. (W)

R

READ 0300 Developmental Reading I

Raises the reading level of students through the acquisition of basic vocabulary and comprehension skills. Lab included. Prerequisite: Assessment. 3 credit hours.

Note: May not be used to satisfy the requirements of an associate degree.

READ 0305 Developmental Reading II

Offers additional instruction in developing vocabulary and comprehension skills. Effective study skills are introduced. Lab included. Prerequisite: READ 0300 or assessment. 3 credit hours.

Note: May not be used to satisfy the requirements of an associate degree.

READ 0310 Developmental Reading III

Seeks to further improve students' vocabulary, comprehension and study skills. Lab included. Prerequisite: READ 0305 or assessment. 3 credit hours.

Note: May not be used to satisfy the requirements of an associate degree.

RELE 1105 Uniform Standards of Professional Appraisal Practice

Provides instruction on current provisions of the Uniform Standards of Professional Appraisal Practice (USPAP). 1 credit hour. (W)

RELE 1301 Principles of Real Estate I

Overview of licensing as a real estate broker or salesperson. Includes ethics of practice as a license holder, titles to and conveyance of real estate, legal descriptions, deeds, encumbrances and liens, distinctions between personal and real property, appraisal, finance and regulations, closing procedures, and real estate mathematics. Covers at least three hours of classroom instruction on federal, state, and local laws relating to housing discrimination, housing credit discrimination, and community reinvestment. Fulfills at least 30 of 60 hours of required instruction for salesperson license. 3 credit hours. (W)

RELE 1303 Real Estate Appraisal

A study of the central purposes and functions of an appraisal, social and economic determinant of value, appraisal case studies, cost, market data and income approaches to value estimates, final correlations, and reporting. 3 credit hours. (W)

RELE 1307 Real Estate Investments

Characteristics of real estate investments. Includes techniques of investment analysis, time-valued money, discounted and non-discounted investment criteria, leverage, tax shelters, depreciation, and applications to property tax. 3 credit hours. (W)

RELE 1309 Real Estate Law

Provides a study of legal concepts of real estate, land description, real property rights, estates in land, contracts, conveyances, encumbrances, foreclosures, recording procedures, and evidence of title. 3 credit hours. (W)

RELE 1311 Law of Contracts

Elements of a contract, offer and acceptance, the statute of frauds, specific performance and remedies for breach, unauthorized practice of law, commission rules relating to use of adopted forms and owner disclosure requirements. 3 credit hours. (W)

RELE 1315 Property Management

A study of the role of the property manager, landlord policies, operational guidelines, leases, lease negotiations, tenant relations, maintenance, reports, habitability laws, and the Fair Housing Act. 3 credit hours. (W)

RELE 1319 Real Estate Finance

An overview of monetary systems, primary and secondary money markets, sources of mortgage loans, federal government programs, loan applications, processes and procedures, closing costs, alternative financial instruments, equal credit opportunity laws affecting mortgage lending and the state housing agency. 3 credit hours. (W)

RELE 1321 Real Estate Marketing

A study of real estate professionalism and ethics: characteristics of successful salespersons, time management, psychology of marketing, listing procedures, advertising, negotiating and closing financing, and the Deceptive Trade Practice Act. 3 credit hours. (W)

RELE 1325 Real Estate Mathematics

Basic arithmetic skills. Includes mathematical logic, percentages, interest, time value of money, depreciation, amortization, proration, and estimation of closing statements. 3 credit hours. (W)

RELE 1327 Real Estate Commercial Appraisal

Principles and techniques used in the valuation of commercial property. Topics include purposes and functions of an appraisal, social and economic forces affecting value, appraisal case studies, cost, and income approaches to value. 3 credit hours. (W)

RELE 1380 Cooperative Education – Real Estate

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work

experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

RELE 2103 Real Estate Mandatory Continuing Education

Provides mandatory continuing education as required by the Texas Real Estate Commission. Includes updates on the profession and legal topics. 1 credit hour. (W)

RELE 2301 Law of Agency

A study of law of agency including principal-agent and master-servant relationships, the authority of an agent, the termination of an agent's authority, the fiduciary and other duties of an agent, employment law, deceptive trade practices, listing or buying procedures, and the disclosure of an agency. 3 credit hours. (W)

RELE 2309 Principles of Real Estate II

An overview of licensing as a real estate broker and salesman; ethics of practice; titles to and conveyancing of real estate; legal descriptions; law of agency; deeds; encumbrances and liens; distinctions between personal and real property; contracts; appraisal; finance and regulations; closing procedures; real estate mathematics; and federal, state, and local laws relating to housing discrimination, housing credit discrimination, and community reinvestment. 3 credit hours. (W)

RELE 2331 Real Estate Brokerage

A study of law of agency, planning and organization, operational policies and procedures, recruiting, selection and training of personnel, records and control, and real estate firm analysis and expansion criteria. 3 credit hours. (W)

RELE 2381 Cooperative Education – Real Estate

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

RNSG 1219 Integrated Nursing Skills I

Study of the concepts and principles essential for demonstrating competence in the performance of basic nursing skills for care of diverse clients across the life span. Topics include knowledge, judgment, skills, and professional values within a legal/ethical framework. Prerequisite: Admission to Nursing Program. Corequisites: RNSG 1360 and RNSG 1523. 2 credit hours.

RNSG 1229 Integrated Nursing Skills II

Study of the concepts and principles necessary to perform intermediate or advanced nursing skills for care of diverse clients across the life span. Topics include knowledge, judgment, skills, and professional values within a legal/ethical framework. Prerequisite: RNSG 1219. Corequisites: RNSG 1361 and RNSG 2504. 2 credit hours.

RNSG 1266 Practicum – Nursing – Registered Nurse Training

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. 2 credit hours. (W)

RNSG 1360 Clinical I – Nursing – Registered Nurse Training

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisite: Admission into the ADN program. Corequisites: RNSG 1219 and RNSG 1523. 3 credit hours. (W)

RNSG 1361 Clinical II – Nursing – Registered Nurse Training

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisites: RNSG 1360 or equivalent. Corequisites: RNSG 1229 and RNSG 2504. 3 credit hours. (W)

RNSG 1523 Introduction to Professional Nursing for Integrated Programs

Introduction to the profession of nursing including the roles of the registered nurse with emphasis on health promotion and primary disease prevention across the life span; essential components of the nursing health assessment; identification of deviations from expected health patterns; the application of a systematic problem-solving process to provide basic nursing care to diverse clients across the life span; and applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework. Prerequisites: Admission into the ADN program. Corequisites: RNSG 1219 and RNSG 1360. 5 credit hours.

RNSG 2207 Transition to Nursing Practice

Introduction to selected concepts related to the role of the professional nurse as a provider of care, coordinator of care, and member of the profession. Review of trends and issues impacting nursing and health care today and in the future. Topics include knowledge, judgment, skill, and professional values within a legal/ethical framework. Prerequisites: RNSG 1219, RNSG 1229, RNSG 1360, RNSG 1361, RNSG 1523, RNSG 2460, RNSG 2504, and RNSG 2514. Corequisites: RNSG 2535 and RNSG 2561. 2 credit hours. (W)

RNSG 2460 Clinical III – Nursing – Registered Nurse Training

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisite: RNSG 1361 or equivalent. Corequisite: RNSG 2514. 4 credit hours. (W)

RNSG 2504 Integrated Care of the Client with Common Health Care Needs

Application of a systematic problem-solving process and critical thinking skills to provide nursing care to diverse clients/families across the life span with common health care needs including, but not limited to, common childhood/adolescent diseases, uncomplicated perinatal care, mental health concepts, perioperative care, frequently occurring adult health problems and health issues related to aging. Emphasis on secondary disease prevention and collaboration with members of the multidisciplinary health care team. Content includes applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework. Prerequisite: RNSG 1523. Corequisites: RNSG 1229 and RNSG 1361. 5 credit hours.

RNSG 2514 Integrated Care of the Client with Complex Health Care Needs

Application of a systematic problem-solving process and critical thinking skills to provide comprehensive nursing care to diverse clients/families across the life span with complex health care needs including, but not limited to, complex childhood/adolescent diseases, complicated perinatal care, acute mental illness, complex perioperative care, serious adult health problems and health issues related to aging. Emphasis on tertiary disease prevention, health maintenance/restoration and collaboration with members of the multidisciplinary health care team. Topics include the role of the nurse as client advocate and coordinator of care and applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework. Opportunities to collaborate with members of the multidisciplinary health care team. Prerequisite: RNSG 2504. Corequisite: RNSG 2460. 5 credit hours. (W)

RNSG 2535 Integrated Client Care Management

Application of client assessment skills, critical thinking, and independent nursing interventions to care for diverse clients/families throughout the life span whose health care needs may be difficult to predict. Emphasis on collaborative clinical decision-making, nursing leadership skills, and client management. Topics include the significance of professional development, trends in nursing and health care, and applicable knowledge, judgment, skills, and professional values within a legal/ethical framework. Prerequisites: RNSG 1219, RNSG 1229, RNSG 1360, RNSG 1361, RNSG 1523, RNSG 2460, RNSG 2504, and RNSG 2514. Corequisites: RNSG 2207 and RNSG 2561. 5 credit hours. (W)

RNSG 2561 Clinical IV – Nursing (RN Training)

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisites: RNSG 2460. Corequisites: RNSG 2207 and RNSG 2535. 5 credit hours.

RSPT 1160 Clinical I – Respiratory Care Therapy/Therapist

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. 1 credit hour. (W)

RSPT 1201 Introduction to Respiratory Care

An introduction to the field of respiratory care. Topics include the history of respiratory care, hospital organization, medical malpractice, ethics, vital signs, body mechanics, basic cardiopulmonary assessment, infection control, and cardiopulmonary resuscitation (CPR). Includes instruction in medical terminology. Lab required. 2 credit hours. (W)

RSPT 1307 Cardiopulmonary Anatomy and Physiology

An introduction to the anatomy and physiology of the cardiovascular and pulmonary systems. Lab required. 3 credit hours. (W)

RSPT 1317 Respiratory Care Pharmacology

A study of pharmacological principles/practices of drugs which affect the cardiopulmonary systems. Emphasis on classification, route of administration, dosages/calculations, and physiological interaction. Prerequisite: RSPT 1201. 3 credit hours. (W)

RSPT 1361 Clinical II – Respiratory Care Therapy/Therapist

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisite: RSPT 1160. 3 credit hours. (W)

RSPT 1362 Clinical III – Respiratory Care Therapy/Therapist

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisite: RSPT 1361. 3 credit hours. (W)

RSPT 1410 Respiratory Care Procedures I

Provides students with the essential knowledge of the equipment and techniques used in the treatment of pulmonary disease and their clinical application. The following areas are discussed in-depth: oxygen therapy, humidity and aerosol therapy, hyperinflation therapy, chest physiotherapy, pulse oximetry, arterial puncture, and interpretation. Lab required. 4 credit hours. (W)

RSPT 1411 Respiratory Care Procedures II

Provides students with essential knowledge of airway care and mechanical ventilation. Airway care includes indications, techniques, equipment, and hazards and complications. Mechanical ventilation includes indications, initiation, modes, clinical application, management, complications, and weaning. Lab required. Prerequisite: RSPT 1410. 4 credit hours. (W)

RSPT 1471 Respiratory Care Procedures III

An introduction to ECG monitoring, neonatal assessment, and infant mechanical ventilation. This course will include material on specialized modes of ventilation chest drainage systems, critical care assessment, and chest trauma. Lab required. Prerequisite: RSPT 1411. 4 credit hours. (W)

RSPT 2139 Advanced Cardiac Life Support

A comprehensive course designed to develop the cognitive and psychomotor skills necessary for resuscitation of the adult. Strategies for managing and stabilizing the cardiopulmonary arrested patient will be included. Lab required. Prerequisite: Knowledge of cardiac rhythms and consent of department chair. 1 credit hour. (W)

RSPT 2231 Clinical Simulations in Respiratory Care

The theory and history of clinical simulation examinations. Topics include the construction types, scoring, and mechanics of taking the exam along with practice in taking both written and computerized simulations and basic concepts of computer usage. Discusses the various pathologies that are likely to be encountered on a clinical simulation exam. Lab required. Prerequisite: RSPT 2355. 2 credit hours. (W)

RSPT 2247 Specialties in Respiratory Care

An introduction to areas of interest in which the Respiratory Therapist may find application and/or employment. The depth of instruction will provide the indications, expected outcomes, hazards and methods for hyperbaric oxygen (HBO), extracorporeal membrane oxygenation (ECMO), nitric oxide (NO), sleep studies, nutritional assessment, metabolic monitoring, exercise/stress testing, and electroencephalograms. Also includes home care/rehabilitation, and fluid and electrolyte balance. Prerequisite: RSPT 2453. 2 credit hours. (W)

RSPT 2310 Cardiopulmonary Disease

A discussion of pathogenesis, pathology, diagnosis, history, prognosis, manifestations, treatment, and detection of cardiopulmonary diseases. Also includes the performance and evaluation of pulmonary function testing. Lab required. Prerequisite: RSPT 1307. 3 credit hours. (W)

RSPT 2355 Critical Care Monitoring

Introduction to monitoring techniques used clinically to assess a patient in the critical care setting. Prerequisite: RSPT 1471. 3 credit hours. (W)

RSPT 2360 Clinical IV – Respiratory Care Therapy/Therapist

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisite: RSPT 1362. 3 credit hours. (W)

RSPT 2361 Clinical V – Respiratory Care Therapy/Therapist

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisite: RSPT 2360. 3 credit hours. (W)

RSPT 2453 Neonatal/Pediatric Cardiopulmonary Care

A study of acute care, monitoring, and management as applied to the neonatal and pediatric patient. Includes an in-depth discussion on the cardiopulmonary diseases that affect the neonatal and pediatric patient. Lab required. Prerequisite: RSPT 1471. 4 credit hours. (W)

RSTO 1380 Cooperative Education – Food and Beverage/Restaurant Operations Manager

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Contact the Cooperative Work Experience Office. 3 credit hours. (W)

RUSS 1411 Beginning Russian I

Introduction to the basic skills of speaking, reading, writing, and listening with attention to selected aspects of Russian culture; designed for students with little or no previous language training. Instruction is enhanced by the use of tapes, slides, computer software, and video cassettes. Must demonstrate by assessment or prerequisite course, placement in ENGL 1301. 4 credit hours.

RUSS 1412 Beginning Russian II

Continuation of RUSS 1411. Prerequisite: RUSS 1411 or equivalent. 4 credit hours.

RUSS 2311 Intermediate Russian I

Intensive review of Russian grammar followed by continued development of speaking, listening, reading and writing skills. Instruction enhanced by slides, tapes, and other audio-visual aids. Prerequisite: RUSS 1412 or equivalent. 3 credit hours.

RUSS 2312 Intermediate Russian II

Continuation of RUSS 2311. Instruction enhanced by slides, tapes, and other audio-visual aids. Prerequisite: RUSS 2311 or equivalent. 3 credit hours.

S

SGNL 1401 American Sign Language (ASL): Beginning I

Introduction to American Sign Language, Deaf culture, and to a brief history of sign and culture. Includes development of expressive and receptive sign skills, together with the learning of numbers, sign vocabulary, and the manual alphabet. Class is conducted primarily without voice. Lab required. 4 credit hours.

SGNL 1402 American Sign Language (ASL): Beginning II

Study of sign vocabulary, numbers, fingerspelling and Deaf culture. Emphasizes further development of receptive skills, expressive skills, application of rudimentary syntactical and grammatical structures, and an understanding of Deaf and Hearing cultures. Class is conducted primarily without voice. Lab required. Prerequisite: SGNL 1401 or credit by exam. 4 credit hours.

SGNL 2301 American Sign Language (ASL): Intermediate I

Includes the integration of ASL expressive and receptive skills using bilingual techniques. Also includes a study of vocabulary, idioms, culture, ASL linguistics, manual and non-manual aspects of ASL, and cross-cultural communication techniques. Highly interactive, centering on lab exercises, peer critiques, guest lectures, and on the application of basic ethical behavior. Class is conducted primarily without voice. Lab required. Prerequisite: SGNL 1402 or credit by exam. 3 credit hours.

SGNL 2302 American Sign Language (ASL): Intermediate II

Continuation of SGNL 2301; further application of introductory level interpreting and transliterating skills with appropriate RID guidelines governing ethical behavior. Provides students the opportunity to interpret for guest speakers. Class is conducted primarily without voice. Lab required. Prerequisite: SGNL 2301 or credit by exam. 3 credit hours.

SLNG 1311 Fingerspelling and Numbers

Develops expressive and receptive fingerspelling skills. Receptive skills focus on whole word phrase recognition and fingerspelling/number comprehension in context. Expressive skills focus on the development of speed, clarity, and fluency. Lab required. Prerequisite/corequisite: SGNL 1402. 3 credit hours. (W)

SLNG 1321 Introduction to the Interpreting Profession

An overview of the field of American Sign Language (ASL)/English interpretation. Provides an historical framework for the principles, ethics, roles, responsibilities, and standard practices of the interpreting profession. Lab required. Prerequisite/corequisite: SGNL 2302. 3 credit hours. (W)

SLNG 1391 Special Topics in Sign Language

Interpreter

Topics address recently identified current events, skills, knowledges, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Lab required. 3 credit hours. (W)

Classifier Use for Interpreters

This course addresses the use of classifiers, a complex grammatical feature in ASL. Many interpreters and interpreting students have difficulty with this grammatical feature in their interpreting since there is no equivalent in spoken English. Classifiers will be defined and categorized. Students will apply what they have learned by practicing translation and interpretation activities. Practice texts will be used for students to develop increased skills in listening and visualization techniques. Emphasis will be given to listening for linguistic cues that trigger classifier use in an interpreted text. Prerequisite: SLNG 2301 or state or national interpreter certification.

SLNG 1447 Deaf Culture

Provides a historical and contemporary perspective of American Deaf Culture using a sociocultural model. Includes cultural identity and awareness, values, group norms, communication, language, and significant contributions made by deaf people to the world. 4 credit hours. (W)

SLNG 2266 Practicum I – Sign Language Interpretation and Translation

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. Prerequisite: SLNG 2301. 2 credit hours. (W)

SLNG 2267 Practicum II – Sign Language Interpretation and Translation

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. Prerequisite: SLNG 2266 and SLNG 2311 or SLNG 2331. 2 credit hours. (W)

SLNG 2301 Interpreting I

An overview of the interpreting process and models of interpretation. Introduces the skills necessary to achieve message equivalency in interpreting American Sign Language (ASL) to English and English to ASL. Lab required. Prerequisite: SLNG 1321. 3 credit hours. (W)

SLNG 2311 Interpreting in Specialized Settings

Overview of interpreting/transliterating with special populations (e.g., deaf/blind, high visual, oral) in special settings (e.g., religious, artistic, medical, legal, mental health). Reinforce interpreting theories and techniques in relation to special population(s) and/or setting(s). Lab required. Prerequisite: SLNG 2301. 3 credit hours. (W)

SLNG 2331 Interpreting III

A practice-oriented course to strengthen skills in the integration and application of processing more complex source materials. Continued exposure to simulated interpreting experience including multimedia material. The course will develop voicing skills with a focus on chunking, dynamic equivalence, word selection, register, receptive skills, proper location of voice interpreters, team interpreting, the use of a CDI and other aspects of voicing. Special requirements of voice interpreting will also be included, such as methods and techniques of voice-overs, voicing for Deaf individuals who use ASL, as well as Deaf individuals who may not use ASL. Lab required. Prerequisite: SLNG 2301 or SLNG 2311, or state or national interpreter certification. Corequisite: SLNG 2301 or SLNG 2311. 3 credit hours. (W)

SMFT 1343 Semiconductor Manufacturing Technology I

A study of the processes, materials, and equipment used in the manufacturing of semiconductors, including an overview of the semiconductor industry, related terminology, and standard safety practice. Lab required. 3 credit hours. (W)

SMFT 2343 Semiconductor Manufacturing Technology II

The continuation of Semiconductor Manufacturing Technology I covering the processes, materials, and equipment used in the manufacturing of semiconductors. Topics address process-yield analysis and process troubleshooting. Lab required. Prerequisite: SMFT 1343. 3 credit hours. (W)

SOCI 1301 Introduction to Sociology

Introduction to the scientific study of social factors that influence human behavior. Includes analysis of culture and socialization processes, social interaction, deviance, social stratification/inequality, race relations, global interdependence, and gender. Must demonstrate, by assessment or prerequisite course, placement in READ 0310. 3 credit hours.

SOCI 1306 Social Problems

In-depth examination of selected social problems, their nature, cause, extent, and effects upon society. Social problems will be analyzed at the local, state, national, and international levels. Includes inequality based on race, gender, age, and class. 3 credit hours.

SOCI 2301 Marriage And Family

A functional approach to understanding the structural, developmental, and institutional aspects of marriage; a multicultural perspective on the family with consideration given to courtship, mate selection, marriage and its dynamics, conflict, family violence, child-rearing patterns, the later years of marriage, divorce, and remarriage. 3 credit hours.

SOCI 2306 Human Sexuality

Understanding of human sexuality; includes an appreciation of different approaches to sexuality as well as an awareness of one's own sexuality and its impact on adjustment to life. 3 credit hours.

Note: Student may receive credit for PSYC 2306 or SOCI 2306 but not for both.

SOCI 2319 Minority Studies

Examines the historical, social, and cultural factors that account for present circumstances and affect future prospects of specific subordinate groups in society. Special emphasis on the causes, persistence, and consequences of prejudice and discrimination and the ways and extent to which each may be reduced. 3 credit hours.

SOCI 2389 Academic Co-op Sociology

Integrates on-campus study with practical hands-on work experience in sociology. In conjunction with class seminars, the student will set specific goals and objectives in the study of sociology. Contact the Cooperative Work Experience Office. 3 credit hours.

SOCW 2361 Introduction to Social Work

An overview of the history, fields, skills, and values of social work practice in the United States. Includes volunteer placement with a social service agency (Service Learning). 3 credit hours.

SOCW 2362 Social Welfare

This course provides an overview of contemporary social welfare including income support services, mental health services and services for children and families. It includes an examination of social welfare policy and programs. Prerequisite/corequisite: SOCW 2361. 3 credit hours.

SPAN 1300 Conversational Spanish I

Intensive practice in spoken Spanish. Prerequisite: SPAN 1412 or consent of department chair. 3 credit hours.

SPAN 1310 Conversational Spanish II

Continuation of Spanish 1300. Prerequisite: SPAN 1300 or consent of department chair. 3 credit hours.

SPAN 1411 Beginning Spanish I

Introduction to the four basic skills of speaking, reading, writing and listening to Spanish with attention to selected aspects of Hispanic culture; designed for students with little or no previous language training. Instruction enhanced by the use of slides, tapes, computer software, and video cassettes. Must demonstrate by assessment or prerequisite course, placement in ENGL 1301. 4 credit hours.

SPAN 1412 Beginning Spanish II

Continuation of SPAN 1411. Prerequisite: SPAN 1411 or consent of department chair. 4 credit hours.

SPAN 2311 Intermediate Spanish I

Continued development of speaking, listening, reading and writing skills. Instruction enhanced by the use of slides, tapes and other audio-visual aids. Prerequisite: SPAN 1412 or consent of department chair. 3 credit hours.

SPAN 2312 Intermediate Spanish II

Extensive written and oral work and extensive reading of literary works in Spanish of moderate difficulty. Prerequisite: SPAN 2311 or consent of department chair. 3 credit hours.

SPAN 2321 Spanish Literature I

Study of Spanish literature from its origin to 1700. Lectures, discussions, and reading of major literary works with some attention to historical contexts. Prerequisite: SPAN 2312 or consent of department chair. 3 credit hours.

SPAN 2322 Spanish Literature II

Study of Spanish literature from 1700 to the present. Lectures, discussions, and readings of major literary works with some attention to historical contexts. Prerequisite: SPAN 2312 or consent of department chair. 3 credit hours.

SPCH 1311 Fundamentals of Speech Communication

Survey of basic factors affecting human interaction through communication; emphasis on the development of oral communication competencies; practice in delivering oral presentations. 3 credit hours.

SPCH 1315 Public Speaking I

Study and practice in the preparation and delivery of oral presentations; practice in different types of speeches and forms of delivery; evaluation of speakers and speeches. 3 credit hours.

SPCH 1318 Interpersonal Communication

Theories and exercises in verbal and nonverbal communication with focus on interpersonal relationships. The course focuses on interpersonal contexts such as gender communication, romantic and family relationships, conflict, intercultural communication, and listening. 3 credit hours.

SPCH 1321 Business and Professional Speaking

Study of the importance of oral communication in business; practice in small group communication; study of the relationship of communication to organizational conflict, management and international business; practice in conducting and participating in business interviews and presentations. 3 credit hours.

SPCH 2377 Intercultural Communication

An introduction to communication between people from different cultures. Survey of verbal and nonverbal communication, media influence, and international business protocol related to intercultural communication competence. 3 credit hours.

SPCH 2389 Academic Co-op Speech

Integrates on-campus study with practical hands-on work experience in speech. In conjunction with class seminars, the student will set specific goals and objectives in the study of speech. Contact the Cooperative Work Experience Office. 3 credit hours.

SRGT 1301 Medical Terminology I

Study of the basic structure of medical words including prefixes, suffixes, roots, combining forms, plurals, pronunciation, spelling, and the definitions of medical terms. Emphasis is on building a professional vocabulary required for employment within the allied health care field. 3 credit hours. (W)

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TECA 1303 Family, School, and Community

A study of the relationship among the child, family, community and schools, including parent education and involvement, family and community lifestyles, child abuse, and current family life issues. Lab required. 3 credit hours.

TECA 1311 Educating Young Children

An introduction to the education of the young child, including developmentally appropriate practices and programs, theoretical and historical perspectives, ethical and professional responsibilities and current issues. Lab required. 3 credit hours.

TECA 1318 Wellness of the Young Child

A study of the factors that impact the well-being of the young child including healthy behavior, food nutrition, fitness, and safety practices. Focus on local and national standards and legal implications of relevant policies and regulations. Lab required. 3 credit hours.

TECA 1354 Child Growth and Development

A study of the physical, emotional, social and cognitive factors of growth and development of children birth through adolescence. 3 credit hours.

TRVM 1327 Special Events Design

The development of a special event from the conceptual stage through completion. Emphasis on industry terminology, factors to consider when planning a special event, and contingency plans. 3 credit hours. (W)

TRVM 1380 Cooperative Education – Tourism and Travel Services Management

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. 3 credit hours. (W)

TRVM 2301 Introduction to Convention/Meeting Management

Overview of the meetings and convention industry and the various aspects and skills involved in planning and managing meeting, conventions, and expositions. Emphasis on types of meetings, meeting markets, industry suppliers, budget and program planning, site selection and contract negotiations, registration and housing, food and beverage requirements, function and meeting room setup, and audiovisual requirements. 3 credit hours. (W)

TRVM 2333 Applied Convention/Meetings Management

Integrate meeting planning tools that compare and discriminate between key areas of program development and convention objectives. Prerequisite: TRVM 2301. 3 credit hours. (W)

TRVM 2355 Exposition and Trade Show Operations

A discussion of management of the specific problems of trade shows and exhibitions, including design, construction, and regulation. Logistics for planning events, including crowd control, special effects, lighting, decorations and audio. Procedures for conducting fairs, festivals, sports events, and grand openings. 3 credit hours. (W)

CCCCD Glossary

AA: Abbreviation for Associate of Arts degree.

AAS: Abbreviation for Associate of Applied Science degree.

AAT: Abbreviation for Associate of Arts in Teaching degree.

AS: Abbreviation for Associate of Science degree.

Academic Advising: A process in which students interact with college staff/faculty advisors in decision-making, problem-solving, and long-range planning related to his or her academic goals.

Academic Advisor: A member of the college staff who assists students with information about Collin's various academic programs, degree requirements, and college transfer processes.

Add: To enroll in another course after original registration.

Advanced Placement: Credit which may be earned through attending certain advanced courses and passing standardized tests offered at high schools.

Assessment: A method to determine a student's preparation for college-level coursework.

Attempted Hours: The number of hours a student is enrolled in at the college, including college-level and developmental coursework.

Audit: To take a credit course without receiving a grade or credits; an audit fee is assessed at time of enrollment.

Behavioral Science: A science examining human activities in an attempt to understand human social behavior: includes subjects such as psychology and sociology.

Blue Book: Paper booklet available in the college bookstore that is used for essay tests.

Collin Official: A person employed by Collin County Community College District in an administrative, supervisory, academic, research, or support staff position; a person serving on a college governing body; or a person employed by or under contract to the college to perform a special task, such as an attorney or an auditor.

Call Number: A number used during Telephone/Webline Registration to register for a specific course and section.

Capstone: The capstone is a learning experience resulting in a consolidation of a student's educational experience and certifies mastery of entry-level workplace competencies. The capstone experience occurs during the last semester of the student's educational program.

Catalog: The book containing course descriptions, certificate and associate degree requirements, and general information.

Class Schedule: The publication that lists courses and sections for a specific semester, including: name of instructor; day, hour, place of class meeting; and detailed registration procedures.

CLEP (College Level Examination Program): A series of standardized tests for college credit.

Competency-based Education: An educational program designed to teach applied and/or job-related clusters of skills, knowledge, and attitudes that form the basis for the evaluation of the student.

Concurrent Enrollment: The status of students who are enrolled in a college course while they are still classified as high school students.

Continuing Education: A flexible program that offers courses, programs, and certificates geared toward professional development in areas such as, hands-on computer training, Internet applications, small business development, languages and continuing professional education and re-certification.

Cooperative Education: A method of instruction between a sponsoring company and the student that provides the student training and experience in the workplace. Students work toward reaching established learning objectives as outlined in a formal plan developed by institutional staff.

Core Curriculum: Courses that all students are required to successfully complete (in addition to other graduation requirements) before receiving an Associate of Arts, Associate of Science, or an Associate of Applied Science degree.

Corequisite: Refers to courses that must be taken simultaneously during the same semester.

Course Load: The number of semester hours for which a student enrolls in a given term.

Credit: Units assigned to each course.

Credit by Exam: Exams offered through the college that allows a student to receive credit for specific courses.

Credit Hour: A unit of measurement that is used to fulfill the requirements for a college degree or certificate. Varies by course, but generally refers to the number of hours students will spend in a specific course each week. Upon successful completion of a course, the credit hours earned are applied to the student's academic transcript. Students need to earn a specific number of credit hours to complete their associate degree or certificate at Collin, to transfer to a college or university, and to complete their bachelor's degree at a college or university.

Dean/Director: The administrative head of a division or department.

Dean's List: Students who complete 12 or more quality credit hours during a regular (16-week) semester with a current 3.5 GPA or above qualify for the Dean's List.

Degree Plan: The list of courses outlined on pages 50-127 which are required for a specific area of emphasis for the AA, AAS, AAT, or AS degrees.

Drop: Withdrawing from one or more courses while remaining enrolled in other courses in the college.

Earned Hours: The number of credit hours a student successfully completes including college-level, developmental, non-traditional, and transfer work.

Electives: Courses that do not necessarily count toward a major, but are required for most college degrees. Consult an academic advisor before deciding upon electives.

Emerging Scholars: See page 44.

Fee: A charge, in addition to tuition charges, that the college requires for services and laboratories.

Field of Study: See page 53.

Freshman: A student's classification until 30 quality credit hours are earned.

Full-Time: To be enrolled in 12 or more credit hours during a regular (16-week) semester, six or more credit hours in a five-week summer semester, or nine credit hours in a 10-week summer semester.

GPA (Grade Point Average): A calculation made each semester that summarizes grades and credit hours. GPA is calculated by dividing the total number of quality grade points by the total number of quality credit hours attempted in a given semester. The cumulative GPA is based upon all college-level courses completed at Collin.

Grade Points: The value given to each letter grade to calculate the GPA.

Grade Report: A report mailed to concurrent high school students. Other students can obtain their grades on the Telephone/Webline Registration System using their personal identification number (PIN).

Hours Attempted: The number of hours a student is enrolled at a university, including college-level and developmental coursework, transfer credits, course credits earned by examination, Tech Prep, and courses dropped after the official census date.

Lab: A teaching component that occurs inside and/or outside the classroom to enhance the learning experience.

Lab Sciences: Science courses utilizing scientific principles for experimentation and research.

Learning Community: Blends two or more courses around a common interdisciplinary theme to form one integrated class where students and faculty develop into a community of learners. See page 41 for details.

Major: A student's area of specialization.

Marketable Skills Achievement Awards: See page 75.

Matriculate: To go through the process of admission to a college and enroll.

Non-advanced Course: A course offered on the freshman (1000 series) and sophomore (2000 series) levels.

Non-credit Course: A course for which no credit can be earned.

Orientation: A session held to acquaint new students with all areas of the college or with the requirements of a specific course.

Overload: Course loads of more credit hours than students are normally permitted to schedule in a given semester. These overloads require approval of the college registrar.

PIN (Personal Identification Number): Used to access Telephone/Webline Registration System and grades. PINs are available from the Admissions and Records Office.

Part-time: To be enrolled in less than 12 credit hours in a regular (16-week) semester, less than six credit hours in a five-week summer semester, or less than nine credit hours in a 10-week summer semester.

Permanent Record: Cumulative record of students' courses, grades, credits, classification, address, social security number, etc.

Prerequisite: A required course that must be taken before enrollment in a subsequent course. A prerequisite may also be a high school course, an appropriate assessment score, or permission from an instructor.

President's List: Students who complete 12 or more quality credit hours during a regular (16-week) semester with a current 4.0 GPA or above qualify for the President's List.

Probation: A way to warn a student that his/her grades are below a certain standard. Probation may also be applied for disciplinary reasons.

Quality Hours: College-level credit hours a student completes at Collin, excluding developmental, non-traditional, and transfer work. These hours are used in calculating a student's college grade point average.

Registration: Enrollment prior to the beginning of a semester, including selection of classes and payment of fees and tuition.

Schedule of Classes: A booklet published (and available on the college website) prior to each semester listing: courses, sections, instructors, days, times, meeting places, and detailed registration procedures.

Section: A number used during registration to differentiate between days, times, room numbers, and professors of the same course.

Semester: A term denoting the length of time a student is enrolled in a specific course. For example, there are two long semesters (fall and spring) that last approximately 16 weeks. There are three summer semesters: Summer I and II lasts five weeks, and Summer III lasts 10 weeks. Mini semesters (winter and May) are designed for highly-motivated students who can devote time to an intense, fast-paced program of study, which usually is held within a three-week period of time.

Service-Learning: Academically-based volunteer service. See page 42 for more information.

Session: Courses that are offered with start and end dates that vary from the "regular" semester. Typically, a session is shorter than a regular semester.

Sophomore: The classification used for students who have earned 30 or more quality credit hours and have not earned an associate degree.

Special Populations Students: Individuals with disabilities, educationally and economically disadvantaged individuals, individuals of limited English proficiency, individuals who participate in programs designed to eliminate sex bias, and individuals in correctional institutions.

Suspension: Dismissal of a student because his/her grades have fallen below a certain standard. Suspension may also be applied for disciplinary reasons.

Syllabus: An outline, usually presented on the first day of class, covering course topics and assignments, required textbooks, attendance, and grading policies.

TSI (Texas Success Initiative): The state-mandated testing component designed to ensure that all students attending public institutions of higher education in Texas have the reading, mathematics, and writing skills necessary to perform college-level work.

Tech Prep: An educational process that helps prepare high school students for emerging technologically advanced careers. Students may earn college credit while attending high school and transfer those Tech Prep credits into specified Associate of Applied Science degree or certificate programs at Collin.

Telephone/Webline Registration: A system that allows students to register and obtain grades by using a designated personal identification number (PIN).

Transcript: The official record of all coursework at a particular institution.

Transfer Agreement: A formal agreement between two institutions of higher education that provides the framework for the acceptance of specific courses and/or programs by the receiving college or university.

Transfer Courses: Courses designed to transfer to other colleges and universities. Because a course will transfer does not mean that it will apply to a specific major or degree plan at a college or university. Please consult an academic advisor.

Webline: Online registration through the college homepage: www.ccccd.edu.

WECM (Workforce Education Course Manual): A procedures and guidelines manual of the Texas Higher Education Coordinating Board for state-funded technical education programs in public community and technical colleges. The program guidelines were implemented in fall 1997.

Withdrawal: To withdraw from one or more courses in a particular semester after the census date.

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Degree Plan Worksheet

FIRST YEAR- First Semester

Course Number	Course Title	Credit Hours	Prerequisite(s)

FIRST YEAR- Second Semester

Course Number	Course Title	Credit Hours	Prerequisite(s)

FIRST YEAR- Summer Semester

Course Number	Course Title	Credit Hours	Prerequisite(s)

Degree Plan Worksheet

SECOND YEAR- First Semester

Course Number	Course Title	Credit Hours	Prerequisite(s)

SECOND YEAR- Second Semester

Course Number	Course Title	Credit Hours	Prerequisite(s)

SECOND YEAR- Summer Semester

Course Number	Course Title	Credit Hours	Prerequisite(s)

