Paralegal Certificate (CIP 22.0302)

281-756-3642

The Paralegal Certificate program is designed for individuals who would like to obtain their paralegal education and enter the job market as quickly as possible. This program is also a great option for individuals who presently have an associate or bachelor's degree, from an accredited college, in a different field of study. Courses for the Paralegal program do not need to be taken in the order shown on this page. Please use the semester schedules as a guideline and/or contact the department chair for assistance with choosing courses.

Course Number	Course Title	Credits
+ ENGL 1301	Composition I	3
Fa LGLA 1301	Legal Research & Writing	3
LGLA 1345	Civil Litigation	3
LGLA 1351	Contracts	3
Fa LGLA 1353	Wills, Trust, and Probate Administration	3
Sp LGLA 1355	Family Law	3
LGLA 1359	Immigration Law	3
* LGLA 1380	Cooperative Ed - Paralegal	3
POFI 1301	Computer Applications I	3
LGLA 2303	Torts and Personal Injury	3
LGLA 2305	Interviewing & Investigating	3
Sp LGLA 2313	Criminal Law & Procedure	3
LGLA 2311	Business Organizations	3
LGLA 2323	Intellectual Property	3
* LGLA 2381	Cooperative Ed - Paralegal	3

Total Credits Required for Paralegal Certificate 45

+Denotes core requirement. Speak with Department Chair or Academic Advisor for proper course selection.

* Capstone course. If a student registers for a co-op course (internship), the student must have a co-op site arranged prior to the first day of the semester class.

Fa Course offered Fall only.

Sp Course offered Spring only.

Pharmacy Technician (CIP 51.0805) 281-756-3805

Associate of Applied Science Degree Program (A.A.S.) - Articulated Credit

Purpose: The Pharmacy Technician Program offers a 2 year curriculum to prepare individuals for an allied health career working in a pharmacy. The program prepares you to take the Pharmacy Technician Certification Exam. Once certified, you will be able to work in retail pharmacies, hospital pharmacies, and mail order pharmacies. The 2 year curriculum provides courses in Management allowing you to gain knowledge needed to move into management.

Program Requirements:

1. Have a high school diploma or GED.
2. Apply to Alvin Community College and fulfill the admission requirements.
3. Not currently on suspension or academic probation at any college.
4. Interview with the Department Chair of the program.
5. All students are required to make a C or greater for all pharmacy technician courses.
6. A background check will be conducted by the State of Texas Pharmacy Board when applying for "technician in training" status. You must not have any felonies (in the last 5 years) or drug convictions.
7. A drug test is required for clinical rotation.
8. Current immunizations required for clinical rotation.
9. CPR certification required for clinical rotation.

Course Number	*Course Title*	*Credits*
First Semester		
+ENGL 1301	Composition I	3
PHRA 1301	Introduction to Pharmacy	3
PHRA 1315	Pharmacy Terminology	3
+SPCH	Select SPCH course from Component Area Options Core Curriculum	3
Second Semester		
BMGT 1327	Principles of Management	3
HRPO 1311	Human Relations	3
PHRA 1205	Drug Classification	2
PHRA 1309	Pharmaceutical Mathematics I	3
PHRA 1313	Community Pharmacy Practice	3
Third Semester		
+CHEM 1405	Introductory to Chemistry	4
PHRA 1304	Pharmacy Therapy and Disease Process	3
PHRA 1349	Institutional Pharmacy Practice	3
Fourth Semester		
HRPO 2301	Human Resource Management	3
PHRA 1441	Pharmacy Drug Therapy & Treatment	4
PHRA 1445	Compounding, Sterile Preparations & Aseptic Techniques	4
+Social & Behavioral Sciences	Select from Social & Behavioral Sciences Core Curriculum	3
Fifth Semester		
+Creative Arts or	Select from Creative Arts Core Curriculum or	3
+Language, Philosophy & Culture	Select from Language, Philosophy & Culture Core Curriculum	
MRKG 1311	Principles of Marketing	3
PHRA 1291	Special Topics for Pharmacy Technicians	2
PHRA 2262	Clinical - Pharmacy Technician	2

Total Credits Required for A.A.S. Pharmacy Technician Degree 60

+ Denotes core requirement. Speak with Department Chair or Academic Advisor for proper course selection.

Pharmacy Technician Certificate (CIP 51.0805)

281-756-3805

Purpose: The Pharmacy Technician Certificate is designed to prepare career oriented persons to take the Pharmacy Technician Certification Exam and enter the field of Pharmacy.

Program Requirements:

1. Have a high school diploma or GED.
2. Apply to Alvin Community College and fulfill the admission requirements.
3. Not currently on suspension or academic probation at any college.
4. Interview with the Department Chair of the program.
5. All students are required to make a C or greater for all pharmacy technician courses.
6. A background check will be conducted by the State of Texas Pharmacy Board when applying for "technician in training" status. You must not have any felonies (in the last 5 years) or drug convictions.
7. A drug test is required for clinical rotation.
8. Current immunizations required for clinical rotation.
9. CPR certification required for clinical rotation.

Course Number	Course Title	*Credits*
First Semester		
PHRA 1205	Drug Classification	2
PHRA 1301	Introduction to Pharmacy	3
PHRA 1309	Pharmaceutical Mathematics I	3
PHRA 1313	Community Pharmacy Practice	3
PHRA 1315	Pharmacy Terminology	3
Second Semester		
PHRA 1349	Institutional Pharmacy Practice	3
PHRA 1441	Pharmacy Drug Therapy & Treatment	4
PHRA 1445	Compounding, Sterile Preparations & Aseptic Techniques	4
PHRA 2262	Clinical - Pharmacy Technician	2

Total Credits Required for Pharmacy Technician Certificate 27

Polysomnography - Sleep Medicine

281-756-5655

Associate of Applied Science Degree Program (A.A.S.) - Articulated Credit

Purpose: Polysomnographic (PSG) Technology is an allied health specialty for the diagnosis and treatment of disorders of sleep and daytime alertness. The range of the sleep disorders is varied but includes common disorders such as narcolepsy, sleep apnea, insomnias, and many others. PSG technologists operate a variety of sophisticated electronic monitoring devices, which record brain activity (EEG), muscle and eye movement, respiration, blood oxygen and other physiological events. Technologists are also involved in evaluation of various treatment methods.

PSG technologists are employed in Sleep Disorders Centers, which can be located in medical centers, hospitals, or clinic/office settings. PSG program offers a degree that includes lectures, lab experience on campus, clinical experience at accredited sleep centers, and physician lectures. A major emphasis of the program is to prepare technologists for Board Registration by the Board of Registered Polysomnographic Technologists (BRPT).

The program is fully accredited by the Committee on Accreditation for Polysomnographic Technologists Education (CoA-PSG), One Westbrook Corporate Center, Suite 920, Westchester, IL 60154, and the Commission on Accreditation of Allied Health Education Programs (CAAHEP), 35 E. Wacker Dr., Suite 1970, Chicago, IL 60601-2208, www.caahep.org.

Admission Requirements

To be considered for admission to the Polysomnography program, the applicant must:

a. make an application to Alvin Community College and fulfill the admission requirements.
b. make an application to the Polysomnography program by November 1, 2014.
c. submit official transcripts from other colleges attended with application.
d. complete pre-requisites before January start date.
e. interview with the Program Director
f. complete a physical examination which includes TB skin test and immunizations upon acceptance to the program.
g. not currently be on suspension or academic probation.
h. have current CPR certification - AHA Health Care Provider (will be taught in HPRS 1310).
i. as condition of full acceptance into the program, a student must have a negative criminal background check and a clear drug screen.
j. Students must have proof of medical health insurance

Progression Policy

1. The Polysomnography students will abide by the admission and curriculum requirements of the Polysomnography Department at the time they are admitted or re-admitted to the program.
2. Once a student has enrolled in the Polysomnography Program, all Polysomnography courses must be completed in the proper sequence as shown in the catalog and degree plan, or must have the approval of the Program Director.
3. No grade below a C in a Polysomnography or academic course will be acceptable.
4. A student will be terminated from the program if clinical performance is unsatisfactory as determined by the Clinical Instructor and the Program Director. This action may be taken at any time during the semester or at the end of the semester.
5. In the event a student is asked to leave a clinical affiliate, and not return, the student may not continue progressive courses utilizing that facility. If the clinical affiliate is utilized in future courses, the student will be terminated from the program.
6. Only two (2) attempts in any science/math or any Polysomnography course will be permitted. An attempt is defined as a course in which a grade of D or F is recorded on the transcript.
7. A student requiring hospitalization, or sustaining an injury will be required to obtain a written statement from his/her physician verifying that the health status of the student is adequate for performance in the clinical agency. A student my not be allowed to return to the clinical area if he/she must be on medications which may interfere with his/her ability to perform satisfactorily.
8. A student who is pregnant **must** present a physician's statement giving evidence of her ability to perform the required work.
9. Students must complete the program within three (3) years after initial acceptance.

Advanced Standing

1. **Advanced standing applies to those Polysomnography** personnel who have work experience and have not completed the associate degree program.
2. Polysomnography professional with at least two (2) years full-time experience in the field will have the opportunity to challenge polysomnography courses.
3. These courses must be challenged in sequence unless permission is otherwise granted.
4. Not all Polysomnography courses may be challenged. For each credit hour granted by examination, a credit must be taken on this campus

Polysomnography - Sleep Medicine (CIP 51.0903)

Associate of Applied Science Degree Program (A.A.S.) - Articulated Credit

281-756-5655

Course Number	*Course Title*	*Credits*
Pre-requisites		
* +BIOL 2401	Anatomy & Physiology I	4
* +BIOL 2402	Anatomy & Physiology II	4
* +ENGL 1301	Composition I	3
First Semester (Spring)		
HPRS 1304	Basic Health Profession Skills	3
PSGT 1205	Neurophysiology of Sleep	2
PSGT 1310	Neuroanatomy & Physiology	3
PSGT 1340	Sleep Disorders	3
PSGT 1400	Polysomnography I	4
Second Semester (Summer)		
PSGT 1260	Polysomnography Clinical I	2
PSGT 2205	Sleep Scoring & Staging	2
RSPT 1310	Respiratory Care Procedures	3
Third Semester (Fall)		
PSGT 2411	Polysomnography II	4
PSGT 2660	Polysomnography Clinical II	6
RSPT 2239	Advanced Cardiac Life Support	2
+Social & Behavioral Sciences	Select from Social & Behavorial Sciences Core Curriculum	3
Fourth Semester (Spring)		
PSGT 1191	Special Topics	1
PSGT 2250	Infant and Pediatric Polysomnography	2
PSGT 2661	Polysomnography Clinicial III	6
+Creative Arts **or**	Select from Creative Arts Core Curriculum	3
+Language, Philosophy & Culture	Select from Language, Philosophy & Culture Core Curriculum	

Total Credits Required for A.A.S. Polysomnography 60

*Denotes core requirement. Speak with Department Chair or Academic Advisor for proper course selection.
+Pre-requisite courses must be completed before January start date.

Polysomnography - Advanced Technical Certificate (CIP 51.0903) 281-756-5655

Purpose

Polysomnographic (PSG) Technology is an allied health specialty for the diagnosis and treatment of disorders of sleep and daytime alertness. The range of sleep disorders is varied but includes common disorders such as narcolepsy, sleep apnea, insomnias, and many others. PSG technologists operate a variety of sophisticated electronic monitoring devices, which record brain activity (EEG), muscle and eye movement, respiration, blood oxygen and other physiological events. Technologists are also involved in evaluation of various treatment methods.
PSG technologists are employed in Sleep Disorders Centers, which can be located in medical centers, hospitals, or clinic/office settings. PSG program offers a certificate that includes lectures, lab experience on campus, clinical experience at accredited sleep centers, and physician lectures. A major emphasis of the program is to prepare technologists for Board Registration by the Board of Registered Polysomnographic Technologists (BRPT.)

Admission Requirements

To be considered for admission to the Polysomnography program, the applicant must:

a. make an application to Alvin Community College and fulfill the admission requirements.
b. make an application to the Polysomnography program.
c. have an Associate Degree in a Health Care field.
d. submit official transcripts from college where above degree was granted.
e. submit appropriate state licensure and/or credentials.
f. interview with the Program Director
g. complete a physical examination which includes TB skin test and immunizations upon acceptance to the program.
h. not currently be on suspension or academic probation.
i. have current CPR certification - AHA Health Care Provider.
j. have a negative criminal background check and a clear drug screen as a condition of full acceptance into the program.
k. must have proof of medical health insurance

Course Number	*Course Title*	*Credits*
Spring Semester		
PSGT 1205	Neurophysiology of Sleep	2
PSGT 1310	Neuroanatomy & Physiology	3
PSGT 1340	Sleep Disorders	3
PSGT 1400	Polysomnography I	4
Summer Semester		
PSGT 1260	Polysomnography Clinical I	2
PSGT 2205	Sleep Scoring & Staging	2
* RSPT 1310	Respiratory Care Procedures	3
Fall Semester		
PSGT 2411	Polysomnography II	4
PSGT 2660	Polysomnography Clinical II	6
RSPT 2239	Advanced Cardiac Life Support	2
Spring Semester		
PSGT 1191	Special Topics	1
PSGT 2250	Infant and Pediatric Polysomnography	2
PSGT 2661	Polysomnography Clinical III	6

Total Credits Required for Advanced Technical Certificate in Polysomnography 40

*Student must take RSPT 1310 (Respiratory Care Procedures) if he/she is not a Registered Respiratory Therapist.

Process Technology (CIP 41.0301)

281-756-3785

Associate of Applied Science Degree Program (A.A.S.) - Articulated Credit

Purpose: The Process Technology associate level program offers students core courses related to Process Operations that will prepare them to become process technicians in the refining, petrochemical, power generation, oil and gas production, food and other process industries. Technical knowledge and skills will be gained in areas such as operating equipment, instrumentation systems, process systems, process troubleshooting and computer applications. The associate program will take four semesters to complete. Graduates from the program will be prepared for entry level employment as process technicians.

Program Requirements: In addition to the general requirements for admission to ACC, entry into the Process Technology program requires basic proficiency in English, Reading, and Math.

Course Number	*Course Title*	*Credits*
+Creative Arts **or**	Select from Creative Arts Core Curriculum	3
+Language, Philosophy & Culture	Select from Language, Philosophy & Culture Core Curriculum	
+Social & Behavioral Sciences	Select from Social & Behavioral Science Core Curriculum	3
+ENGL 1301	Composition I	3
+MATH 1332 **or**	Contemporary Mathematics I	3
+MATH 1314 **or**	College Algebra	
MATH 1333	Contemporary Math for Tech	
+SPCH 1315 **or**	Public Speaking	3
+SPCH 1318	Interpersonal Communications	
CTEC 1401	Applied Petrochemical Technology (Physics)	4
PTAC 1302	Introduction to Process Technology	3
PTAC 1308	Safety, Health, and Environmnet	3
PTAC 1332	Process Instrumentation I	3
PTAC 1310	Process Technology I (Equipment)	3
PTAC 1354 **or**	Industrial Processes	3
**CTEC 2380	Cooperative Ed-Process Technology	
PTAC 2314	Quality, Statistical Process Control & Economics	3
PTAC 2420	Process Technology II (Systems)	4
PTAC 2436	Process Instrumentation II	4
*PTAC 2438	Process Technology III (Operations)	4
PTAC 2446	Process Troubleshooting	4
SCIT 1414	Applied General Chemistry	4
TECM 1303	Technical Calculations	3

Total Credits Required for A.A.S. Process Technology Degree 60

+Denotes core requirement. Speak with Department Chair or Academic Advisor for proper course selection.
* Capstone Course - Can not be substituted.
** Requires Department Chair approval.

Review courses that require pre-requisites (see page 126).

Process Technology Certificate (CIP 41.0301) 281-756-3785

Purpose: The Process Technology certificate level program is designed to prepare students for entry level trainee jobs in the process industries. Time for completion is one-and-one-half years.

Program Requirements: A certificate student will take the following curriculum to achieve the certificate in Process Technology.

Course Number	*Course Title*	*Credits*
CTEC 1401	Applied Petrochemical Technology (Physics)	4
PTAC 1302	Introduction to Process Technology	3
PTAC 1308	Safety, Health and Environment in the Process Industry	3
PTAC 1332	Process Instrumentation I	3
PTAC 1310	Process Technology I (Equipment)	3
PTAC 2314	Quality, Statistical Process Control & Economics	3
*PTAC 2420	Process Technology II (Systems)	4
PTAC 2438	Process Technology III (Operations)	4
PTAC 2446	Process Troubleshooting	4
SCIT 1414	Applied General Chemistry	4

Total Credits Required for Process Technology Certificate 35

* Capstone Course - Can not be substituted.

Review courses that require pre-requisites (see page 126)

Respiratory Care

Associate of Applied Science Degree Program (A.A.S.) **281-756-5660**

Purpose: The Respiratory Care Department offers a two-year program that prepares individuals for an allied health specialty in the clinical care and management of respiratory disorders. The graduate will possess advanced, intensive-care skills to assess, monitor and evaluate adult, pediatric and neonatal patients on mechanical ventilation. Respiratory therapists practice in a variety of settings, including intensive care units, neonatal/pediatric special care areas, general hospital floors, emergency/trauma units, extended care and rehabilitation facilities, and the home care environment. Respiratory Care courses consist of classroom, lab and supervised hospital experience. Graduates of the associate degree program may become Registered Respiratory Therapists (RRT) by passing the Therapist Multiple-Choice Examination and the Clinical Simulation Examination. Texas requires that respiratory care practitioners obtain a state license to practice respiratory care. The program is affiliated with several community hospitals including Ben Taub, Texas Children's, Memorial-Hermann, Methodist, St Luke's Episcopal Hospital, and eleven other clinical affiliates. The program (CoARC #200307) is fully accredited by the Committee on Accreditation for Respiratory Care (CoARC), 1248 Harwood Rd., Bedford, TX 76021-4244, 817-283-2835, www.coarc.com.

Admission Requirements:

1. To be considered for admission to the respiratory care program, the applicant must:
   a. be a high school or GED graduate.
   b. make application to ACC and fulfill the admission requirements, including THEA.
   c. make application to the respiratory care program.
   d. submit official transcripts of all previous college work to ACC Registrar's Office.
   e. applicants are required to demonstrate an understanding of the responsibilities and duties of the profession through observation and discussion with a practicing therapist. Contact the director for details.
   f. have completed the HESI A2 Entrance Exam and complete BIOL 2401, BIOL 2402 and ENGL 1301 with a grade no lower than a "C" prior to admission. Biology grades and test scores must be within 5 years of the time of application.
   g. complete a physical examination form which includes TB skin test, and immunizations upon acceptance to the program.
   h. as a condition of full acceptance into the program, a student must have a negative criminal background check and a clear drug screen.
   i. personal health insurance is required.
   j. a current CPR card is not required prior to acceptance. A CPR course will be taught in RSPT 1429.
   k. not currently be on suspension or academic probation from ACC or another college or university.
2. Any science or respiratory care course completed more than five years prior to the student being accepted may not satisfy requirements for a degree in respiratory care.
3. Transfer students must complete the following:
   a. meet the above admission criteria.
   b. have a cumulative GPA of 2.0 or higher on all courses being transferred into the respiratory care curriculum.
   c. provide the Respiratory Care Department with a description and/or syllabus of each respiratory course being considered for transfer. .
   d. Must complete a minimum of 18 semester hours at ACC in order to be considered a graduate.
4. Program begins in August.

Alternate Enrollment:

1. Alternate enrollment applies to those respiratory care personnel who are licensed and have not completed the associate degree.
2. Respiratory care professionals with at least two years' full-time experience in the field will have the opportunity to challenge respiratory care courses. These courses must be challenged in sequence unless permission is otherwise granted by the program director.

Progression Policies:

1. Respiratory care students will abide by the admission and curriculum requirements of the Respiratory Care Department at the time they are admitted or re-admitted to the program.
2. Once a student has enrolled in the respiratory care program, all respiratory care courses must be completed in the proper sequence as shown in the catalog and degree plan, or must have the approval of the program director.
3. No grade below a C in a respiratory care or academic course will be acceptable for progression.
4. A student will be terminated from the program if clinical performance is unsatisfactory as determined by the clinical instructor and the program director. This action may be taken at any time during the semester or at the end of the semester.
5. A student who makes a D or F in any science/respiratory care course may repeat that course once in order to obtain a C or better.
6. A student requiring hospitalization or sustaining an injury will be required to obtain a written statement from his/her physician verifying that the health status of the student is adequate for performance in the clinical agency. A student may not be allowed to return to the clinical area if he/she must be on medications which may interfere with the ability to perform satisfactorily.
7. A student who is pregnant must present a physician's statement giving evidence of her ability to perform the work required.
8. Students must complete the program within four years after initial acceptance.

Respiratory Care (CIP 51.0908)

Associate of Applied Science Degree Program (A.A.S.)

281-756-5660

Course Number	*Course Title*	*Credits*
Prerequisites		
+BIOL 2401	Anatomy & Physiology I	4
+BIOL 2402	Anatomy & Physiology II	4
+ENGL 1301	Composition I	3
FIRST YEAR		
First Semester		
RSPT 1166	Practicum-Respiratory Care Therapist	1
RSPT 1207	Cardiopulmonary Anatomy & Physiology	2
RSPT 1331	Basic Respiratory Care Fundamentals II	3
RSPT 1225	Respiratory Care Sciences	2
RSPT 1429	Respiratory Care Fundamentals I	4
Second Semester		
+Creative Arts **or** +Language, Philosophy & Culture	Select from Creative Arts Core Curriculum **or** Select from Language, Philosophy & Culture Core Curriculum	3
RSPT 1266	Practicum-Respiratory Care Therapist I	2
RSPT 2217	Respiratory Care Pharmacology	2
RSPT 2310	Cardiopulmonary Diseases I	3
RSPT 2414	Mechanical Ventilation I	4
Third Semester		
RSPT 1262	Clinical-Respiratory Care Therapist II	2
RSPT 2305	Pulmonary Diagnostics	3
RSPT 2314	Mechanical Ventilation II	3
SECOND YEAR		
First Semester		
RSPT 2355	Critical Care Monitoring	3
RSPT 2266	Practicum-Respiratory Care Therapist III	2
+Social & Behavioral Sciences	Select from Social & Behavioral Science Core Curriculum	3
BIOL 2420	Microbiology	4
Second Semester		
RSPT 2131	Simulations for Respiratory Care	1
RSPT 2267	Practicum-Respiratory Care Therapist IV	2
RSPT 2166	Practicum-Respiratory Care Therapist V	1
RSPT 2453	Neonatal/Pediatric Cardiopulmonary Care	4
RSPT 1191	Special Topics in Respiratory Care	1

Total Credits Required for A.A.S. Respiratory Care 66

+ Denotes core requirement. Speak with Department Chair or Academic Advisor for proper course selection.

2015-16
Rev: 4-20-15

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Welding (CIP 48.0508)

Degree: Welding Certificate ***(Pending Approval)*** **281-756-3672**

Purpose: The Level 1 Certificate in Welding is designed to prepare the student for full-time employment upon completion in the career of welding. The basic objective of the program is to develop the skills in ferrous and non-ferrous metals for employment in construction trades and area industrial needs.

Program Requirements: In addition to the general requirements for admission to the College, entry into the Welding Program requires a personal interview with the Department Head of the Welding Program.

Course Number	*Course Title*	*Credits*
WLDG 1323	Welding Safety Tools and Equipment	3
WLDG 1407	Introduction to Welding Using Multiple Processes	4
WLDG 1413	Introduction to Blueprint Reading for Welders	4
WLDG 1521	Welding Fundamentals	5

Total Credits Required for Welding Certificate 16

Pre and Co Requisites

"P" indicates courses which must have been passed prior to enrollment in the selected course. In the case of DIRW/DIRR 0310 or MATH 0310, the student must have passed at least the 0309 level course or must have passed the 0309 level on the TSI or an alternate test.

"C" indicates courses which, if not already passed, must be taken concurrently with the selected course. DIRW/DIRR and MATH co requisites are not required if the placement test or applicable courses have been passed.

ACCT (Accounting)
2302 P-ACCT 2301

ACNT (Office Administration)
1311 P-ACNT 1303

ANTH (Anthropology)
2301 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2302 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2346 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2351 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310

ARCE (Industrial Design Technology)
1452 P-DFTG 2419

ARTS (Arts)
1301 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
1303 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
1304 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
1317 P-ARTS 1316
2317 P-ARTS 2316
2327 P-ARTS 2326
2334 P-ARTS 2333
2342 P-ARTS 2341
2347 P-ARTS 2346
2349 P-ARTS 2348
2357 P-ARTS 2356
2367 P-ARTS 2366

BCIS (Computer Information Technology)
1305 P-DIRW/DIRR 0309 or READ 0309
1420 P- NCBM 0200 or MATH 0309 and BCIS 1305 or COSC 1301 or COSC 1415
1431 P- NCBM 0200 or MATH 0309 and BCIS 1305 or COSC 1301 or COSC 1415
2431 P-BCIS 1431or ITSE 1431

BIOL (Biology)
1308 P-DIRW/DIRR 0310 or READ 0310
1309 P-DIRW/DIRR 0310 or READ 0310
1406 P-DIRW/DIRR 0310 or READ 0310
1407 P-DIRW/DIRR 0310 or READ 0310
2306 P-DIRW/DIRR 0310 or READ 0310
2401 P-DIRW/DIRR 0310 or READ 0310
2402 P-BIOL 2401
2420 P-BIOL 1406 or 1407 or 2401 or 2402

BMGT (Management)
1345 P-DIRW/DIRR 0309 or ENGL 0309
1382 P-Dept. approval
2382 P-Dept. approval
2383 P-Dept. approval

BUSI (Business)
2301 P-DIRW/DIRR 0309 or ENGL 0309 & READ 0309

CDEC (Child Development / Early Childhood)
1313 P-DIRW/DIRR 0310 or READ 0310
1317 P-DIRW/DIRR 0310 or READ 0310
1319 P-DIRW/DIRR 0310 or READ 0310
1321 P-DIRW/DIRR 0310 or READ 0310
1356 P-DIRW/DIRR 0310 or READ 0310
1358 P-DIRW/DIRR 0310 or READ 0310
1359 P-DIRW/DIRR 0310 or READ 0310
1384 P-DIRW/DIRR 0310 or READ 0310 and 6 hrs of CDEC
2307 P-DIRW/DIRR 0310 or READ 0310
2322 P-DIRW/DIRR 0310 or READ 0310
2324 P-DIRW/DIRR 0310 or READ 0310
2384 P-DIRW/DIRR 0310 or ENGL 0310, & CDEC 1384
2426 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2428 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310

CHEF (Culinary Arts)
1291 P-DIRW/DIRR 0310 or READ 0310
1301 P-DIRW/DIRR 0310 or READ 0310, & C-CHEF1305
1302 P-CHEF 1301
1305 C-CHEF 1301
1310 P-CHEF 1301
1341 P-CHEF 1301
1345 P-CHEF 1301
1364 P-CHEF 1301
1365 P-CHEF 1301
2301 P-CHEF 1301
2302 P-CHEF 1301

CHEM (Chemistry)
1405 P-DIRW/DIRR 0310 or READ 0310
1411 P-MATH 1314, CHEM 1405 recommended
1412 P-CHEM 1411
2423 P-CHEM 1412
2425 P-CHEM 2423

CHIN (Chinese)
(or departmental online placement test)
1412 P-CHIN 1411, with a C or higher
2311 P-CHIN 1412, with a C or higher
2312 P-CHIN 2311, with a C or higher

CJSA (Criminal Justice)
2323 P-CJSA 1308 or CRIJ 2314
2332 P-CJSA 2323

COMM (Communications)
1319 P-COMM 1318 or ARTS 2356

COSC (Computer Information Technology)
1301 P-DIRW/DIRR 0309 or READ 0309
1415 P-DIRW/DIRR 0309 or READ 0309
1420 P-NCBM 0200 or MATH 0309, and BCIS 1305 or COSC 1301 or COSC 1415
1430 P-BCIS 1420 or 1431 or COSC 1420 or 1436 or 1437 or ITSE 1407 or 1422 or 1431
1436 P-NCBM 0200 or MATH 0309, and BCIS 1305 or COSC 1301 or COSC 1415
1437 P-NCBM 0200 or MATH 0309, and BCIS 1305 or COSC 1301 or COSC 1415
2315 P-COSC 1420, COSC 1437 or ITSE 1407
2420 P-COSC 1420 or 1437 or ITSE 1407
2425 P-BCIS 1420 or 1431 or COSC 1420 or 1436 or 1437 or ITSE 1407 or 1422 or 1431
2436 P-BCIS 1420 or 1431 or COSC 1420 or 1436 or 1437 or ITSE 1407 or 1422 or 1431

CRTR (Court Reporting)
1207 P-CRTR 1304
1202 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
1208 P-CRTR 1214, 1306
1214 P-CRTR 1304
1312 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
1346 P-CRTR 2301
1257 P-CRTR 1304
1259 P-CRTR 1306
1304 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
1306 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310, and CRTR 1304
2206 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310, and CRTR 1304
2311 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310, and CRTR 1312
2312 P-CRTR 2301 & CRTR 1208
2313 P-CRTR 1214, CRTR 1304
2231 P-CRTR 2303
2333 P-CRTR 1346
2380 P-CRTR 1214, CRTR 2311
2381 P-CRTR 2303, 1214
2301 P-CRTR 1306
2303 P-CRTR 2301
2335 P-CRTR 2303

CVTT (Diagnostic Cardiovascular Sonography)
1161 C-DSAE 1340

DAAC (Human Services/Substance Abuse Counseling)
1380 P-DAAC 1364
1381 P-DAAC 1380

DIRW / DIRR (Academic Foundations)
0309 P-NCBW 0100 & NCBR 0200
0310 P-DIRW/DIRR 0309 or ENGL 0309 & READ 0309

DFTG (Industrial Design Technology)
1405 P-DFTG 1409
1409 POFI-1204
1433 P-DFTG 1445
1445 P-DFTG 1405
2406 P-DFTG 1433
2419 P-DFTG 1409
2423 P-DFTG 2419
2430 P-DFTG 1409;C-DFTG 2419
2435 P-DFTG 1433, DFTG 1445
2440 P-DFTG 1409
2445 P-DFTG 2423
2450 P-DFTG 1445
2457 P-DFTG 2423

DRAM (Drama)
1310 P-DIRW/DIRR 0309 or READ 0309
1330 P-DIRW/DIRR 0309 or READ 0309
1341 P-DIRW/DIRR 0309 or READ 0309
1351 P-DIRW/DIRR 0309 or READ 0309
2331 P-DIRW/DIRR 0309 or READ 0309
2336 P-DIRW/DIRR 0309 or READ 0309
2361 P-DIRW/DIRR 0309 or ENGL 0309 & READ 0309
2362 P-DIRW/DIRR 0309 or ENGL 0309 & READ 0309
2366 P-DIRW/DIRR 0309 or READ 0309
2367 P-DRAM 2366

DSAE (Diagnostic Cardiovascular Sonography)
1303 C-DSAE 1360
1360 C-DSAE 1303
2304 P-DSAE 1303; C-DSAE 2361
2335 P-DSAE 2337; C-DSAE 2365
2337 P-DSAE 2304; C-DSAE 2364
2361 P-DSAE 1360; C-DSAE 2304
2364 P-DSAE 2361; C-DSAE 2337
2365 P-DSAE 2364; C-DSAE 2335

DSPE (Diagnostic Cardiovascular Sonography)
1265 C-DSPE 1300
1300 C-DSPE 1265
2249 P-DSPE 2257; C-DSPE 2364
2257 P-DSPE 1300; C-DSPE 2261
2259 P-DSPE 2249; C-DSPE 2365
2261 P-DSPE 1265; C-DSPE 2257
2364 P-DSPE 2261; C-DSPE 2249
2365 P-DSPE 2364; C-DSPE 2259

DSVT (Diagnostic Cardiovascular Sonography)
1300 C-DSVT 1360
1360 C-DSVT 1300
2318 P-DSVT 2330; C-DSVT 2364
2330 P-DSVT 1300; C-DSVT 2361
2335 P-DSVT 2318; C-DSVT 2365
2361 P-DSVT 1360; C-DSVT 2330
2364 P-DSVT 2361; C-DSVT 2318
2365 P-DSVT 2364; C-DSVT 2335

ECON (Economics)
2301 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2302 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310

EDUC (Teaching)
1301 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2301 P-EDUC 1301

EMSP (Emergency Medical Technology)
1160 C-EMSP 1501
1501 C-EMSP 1160
All courses require departmental approval.

ENDT (Neurodiagnostic Technology)
1463 P-ENDT 1345, ENDT 1350; C-ENDT 2320
2210 P-ENDT 1345, ENDT 1350
2215 P-ENDT 1345, ENDT 1350
2320 P-ENDT 1345, ENDT 1350
2425 P-ENDT 1463; C-ENDT 2463
2463 P-ENDT 1463; C-ENDT 2425
2561 P-ENDT 1463, ENDT 2463
All others require dept. approval.

ENGL (English)
1301 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
1302 P-ENGL 1301
2307 P-ENGL 1302
2311 P-ENGL 1301
2322 P-ENGL 1302
2323 P-ENGL 1302
2327 P-ENGL 1302
2328 P-ENGL 1302
2332 P-ENGL 1302
2333 P-ENGL 1302

ENGR (Physics)
1201 P-MATH1314 or equivalent academic preparation

ENTC (Industrial Design Technology)
1423 P-TECM 1317

FREN (French)
(or departmental online placement test)
1412 P-FREN 1411, with a C or higher
2311 P-FREN 1412, with a C or higher
2312 P-FREN 2311, with a C or higher

GAME (Computer Information Technology)
1436 P-NCBM 0200 or MATH 0309
2409 P-GAME 1436

GEOG (Geography)
1301 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
1302 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
1303 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310

GEOL (Geology)
1301 P-DIRW/DIRR 0310 or READ 0310
1303 P-DIRW/DIRR 0310 or READ 0310
1401 P-DIRW/DIRR 0310 or READ 0310
1403 P-DIRW/DIRR 0310 or READ 0310
1404 P-GEOL 1403
1405 P-DIRW/DIRR 0310 or READ 0310
1445 P-DIRW/DIRR 0310 or READ 0310, and MATH 0311 or 0312
1447 P-DIRW/DIRR 0310 or READ 0310, and MATH 0311 or 0312

GERM (German)
(or departmental online placement test)
1412 P-GERM 1411, with a C or higher
2311 P-GERM 1412, with a C or higher
2312 P-GERM 2311, with a C or higher

GOVT (Government)
2305 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2306 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310

HAMG (Culinary Arts)
1321 P-DIRW/DIRR 0310 or READ 0310
1324 P-DIRW/DIRR 0310 or READ 0310

HECO (Nutrition)
1322 P-BIOL 2401

HIST (History)
1301 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
1302 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2301 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2311 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2312 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2321 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2322 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2323 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2327 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2328 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2381 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310

HUMA (Humanities)
1301 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
1302 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310

IFWA (Culinary Arts)
1217 P-DIRW/DIRR 0310 or READ 0310
1318 P-DIRW/DIRR 0310 or READ 0310
1305 CHEF-1301

IMED (Computer Information Technology)
2415 P-DIRW/DIRR 0309 or READ 0309

ITMT (Computer Information Technology)
2301 P-ITMT 1302
2302 P-ITMT 1302
2322 P-ITMT 2301 or ITMT 2302
2351 P-ITMT 2301 or ITMT 2302
2356 P-ITMT 1302

ITNW (Computer Information Technology)
1313 P-ITMT 1302
1325 P-ITNW 1358
1353 P-ITMT 1302
1354 P-ITMT 1302
2321 P-ITMT 1302

ITSC (Computer Information Technology)
1419 P-DIRW/DIRR 0309 or READ 0309

ITSE (Computer Information Technology)
1407 P-NCBM 0200 or MATH 0309 and BCIS 1305 or COSC 1301 or COSC 1415
1422 P- NCBM 0200 or MATH 0309, BCIS 1305, or COSC 1301 or COSC 1415
1431 P- NCBM 0200 or MATH 0309 and BCIS 1305 or COSC 1301 or COSC1 415
1445 P-ITSE 2409
1491 P-NCBM 0200 or MATH 0309 and BCIS 1305 or COSC 1301 or COSC 1415
2387 P- 3 courses required from the following 5 groups: (BCIS 1420 or COSC 1436 or ITSE 1422) or (BCIS 1431 or ITSE 1431) or (COSC 1420 or 1437 or ITSE 1407) or (COSC 1430 or 2436 or ITSE 2417) or (IMED 2415 or ITSE 2402)
2402 P-DIRW/DIRR 0309 or READ 0309
2409 P-DIRW/DIRR 0309 or READ 0309
2413 P-DIRW/DIRR 0309 or READ 0309
2417 P-BCIS 1420 or 1431 or COSC 1420 or 1436 or 1437 or ITSE 1407 or 1422 or 1431
2449 P-BCIS 1431 or ITSE 1431

ITSW (Computer Information Technology)
1404 P-DIRW/DIRR 0309 or READ 0309

ITSY (Computer Information Technology)
1342 P-ITMT 2301 or ITMT 2302

LGLA (Paralegal)
1301 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
1311 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
1345 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
1351 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
1353 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
1355 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
1359 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
1380 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2303 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2305 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2311 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2313 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2323 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2381 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310

MATH (Math)
0310 P-NCBM 0200 or MATH 0309 or required score on placement test.
0311 P-NCBM 0200 or MATH 0309 or required score on placement test, DIRW/DIRR 0310 or READ 0310 or TSI standard.
0312 P-MATH 0310 or required score on placement test.
1314 P-MATH 0312, and DIRW/DIRR 0310 or READ 0310 with a C or better or the TSI standard.
1324 P-MATH 0312, and DIRW/DIRR 0310 or READ 0310 with a C or better or the TSI standard.
1325 P-MATH 1314 or 1324
1332 P-MATH 0311 or MATH 0312 and DIRW/DIRR 0310 or READ 0310 with a C or better or the TSI standard.
1333 P-MATH 0310 or MATH 0311 and DIRW/DIRR 0310 or READ 0310 w/a C or better or TSI standard.
1342 P-MATH 0311 or MATH 0312
1350 P-MATH 1314
1351 P-MATH 1314 or 1350
2318 P-MATH 2413 or Departmental approval
2320 P-MATH 2414 or Departmental approval
2412 P-MATH 1314 or Departmental approval
2413 P-MATH 2412 or Departmental approval
2414 P-MATH 2413
2415 P-MATH 2414

MRKG (Management)
1301 P-MRKG 1311
2349 P-MRKG 1311

MUSI (Music)
1211 P-DIRW/DIRR 0310 or READ 0310; and C-MUSI 1216
1212 P-DIRW/DIRR 0310 or READ 0310, and MUSI 1211; and C-MUSI 1217
1216 C-MUSI 1211
1217 P-MUSI 1216; C-MUSI 1212
1290 P-MUSI 1211 & 1303; MUSI 1181 or MUAP 1269
1303 P-DIRW/DIRR 0309 or READ 0309
1306 P-DIRW/DIRR 0309 or READ 0309
1308 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
1309 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
1310 P-DIRW/DIRR 0309 or READ 0309
2211 P-MUSI 1212; C-MUSI 2216
2212 P-MUSI 2211; C-MUSI 2217
2216 P-MUSI 1217; C-MUSI 2211
2217 P-MUSI 2216; C-MUSI 2212

PHED (Sports & Human Performance)
1306 P-DIRW/DIRR 0309 or READ 0309
1338 P-DIRW/DIRR 0309 or READ 0309

PHIL (Philosophy)
1301 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
1304 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2303 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2306 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310

PHRA (Pharmacy Technician)
1304 P-PHRA 1301, PHRA 1309, & PHRA 1441
2262 P-PHRA 1313

PHYS (Physics)
1301 P-MATH 0312, and DIRW/DIRR 0310 or READ 0310
1401 P-MATH 2412 or Departmental Approval, and DIRW/DIRR 0310 or READ 0310
1402 P-PHYS 1401
2425 P-DIRW/DIRR 0310 or READ 0310, & MATH 2413
2426 P-PHYS 2425, and DIRW/DIRR 0310 or READ 0310

PMHS (Human Services/Substance Abuse Counseling)
1381 P-DAAC 1380
2380 P-DAAC 1381

POFI (Office Administration)
1341 P-POFI 1301 or POFI 1401
1449 P-POFI 1301 or POFI 1401 or departmental approval
2301 P-POFI 1301 or POFI 1401
2350 P-POFI 1301 or POFI 1401

POFM (Office Administration)
1317 Computer Literacy required

POFT (Office Administration)
2401 P-POFT 1429

PSGT (Polysomnography)
1191 P-PSGT 2411
1260 P-PSGT 1400
2205 P-PSGT 1400
2250 P-PSGT 2411
2411 P-PSGT 1400
2660 P-PSGT 1260; C-PSGT-2411
2661 P-PSGT 2660
All other courses require dept. approval.

PSTR (Culinary Arts)
1301 P-DIRW/DIRR 0310 or READ 0310; C-CHEF 1301

PSYC (Psychology)
2301 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2306 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2307 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2308 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2314 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2315 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2316 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2317 P-PSYC 2301, MATH 0311 or MATH 0312
2319 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
2389 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310

PTAC (Process Technology)
1410 P-PTAC 1302
1454 P-PTAC 2420
2420 P-PTAC 1410
2436 P-PTAC 1332
2438 P-PTAC 1332, PTAC 2420
2446 P-PTAC 2420

RNSG (Nursing - ADN)
1246 P-RNSG-1441 & 1561 or RNSG 1262 & 1417
2121 P-RNSG 1441 & 1561 or RNSG 1262 & 1417
All other courses require dept. approval.

RSPT (Respiratory Care)
1207 P-DIRW/DIRR 0309 or READ 0309
1325 P-DIRW/DIRR 0309 or READ 0309
All other courses require dept. approval.

RSTO (Culinary Arts)
2301 P-DIRW/DIRR 0310 or READ 0310, and BCIS 1305 or COSC 1301

RTVB (Communications)
2340 P-RTVB 1301 or COMM 2311

SGNL (Sign Language)
(or with departmental approval)
1302 P-SGNL 1301 with C or better
2301 P-SGNL 1302 with C or better
2302 P-SGNL 2301 with C or better

SOCI (Sociology)
1301 P-DIRW/DIRR 0310 or ENGL 0310 & READ 1310
1306 P-DIRW/DIRR 0310 or ENGL 0310 & READ 1310
2301 P-DIRW/DIRR 0310 or ENGL 0310 & READ 1310
2306 P-DIRW/DIRR 0310 or ENGL 0310 & READ 1310
2319 P-DIRW/DIRR 0310 or ENGL 0310 & READ 1310
2326 P-DIRW/DIRR 0310 or ENGL 0310 & READ 1310
2336 P-DIRW/DIRR 0310 or ENGL 0310 & READ 1310
2340 P-DIRW/DIRR 0310 or ENGL 0310 & READ 1310
2389 P-DIRW/DIRR 0310 or ENGL 0310 & READ 1310

SPAN (Spanish)
(or departmental online placement test)
1412 P-SPAN 1411 with a C or higher
2289 Departmental approval.
2311 P-SPAN 1412 with a C or higher
2312 P-SPAN 2311 with a C or higher
2313 Departmental approval.
2315 Departmental approval.
2389 Departmental approval

SPCH (Speech)
1315 P-DIRW/DIRR 0310 or READ 0310
1318 P-DIRW/DIRR 0310 or ENGL 0310 & READ 0310
1321 P-DIRW/DIRR 0310 or READ 0310
2335 P-DIRW/DIRR 0310 or READ 0310
2341 P-DIRW/DIRR 0310 or READ 0310

TECA (Child Development / Early Childhood)
1303 P – DIRW/DIRR 0310 or ENGL 0310 and READ 0310
1311 P – DIRW/DIRR 0310 or ENGL 0310 and READ 0310
1318 P – DIRW/DIRR 0310 or ENGL 0310 and READ 0310
1354 P – DIRW/DIRR 0310 or ENGL 0310 and READ 0310

TECM (Industrial Design Technology)
1317 P-MATH 1314

VNSG (Nursing - VOCN)
All courses require departmental approval.

WLDG (Welding)
1323 C-WLDG 1407, 1413, and 1521
1407 C-WLDG 1323, 1413, and 1521
1413 C-WLDG 1323, 1407, and 1521
1521 C-WLDG 1323, 1407, and 1413

Revised: 03-09-15

Course Descriptions

Academic Foundations

Margaret Ellen Birdwell, Elizabeth Hall

NOTE: Non-Course-Based sections offer students small group or individualized help with language. NCBR 0200 and NCBW 0100, are offered for students who test below the developmental education cutoff level in Reading and/or English. *These options provide help with developing Reading and Writing skills. Upon successful completion of these classes, students may register for the appropriate DIRW/DIRR class. Students who are not required to take Non-Course-Based classes may elect to take them to improve their Reading and Writing skills. NCCI 0101 provides specialized help to bilingual students currently enrolled in ENGL 1301.*

NCBR 0200
Non-Course-Based Reading
(2 credits)
NCBR 0200 focuses on the development of reading and higher order thinking skills necessary for college readiness. In small group settings, students read, discuss, and write about a central text as they also learn correct grammatical structures and expand their knowledge of Edited American English.
(1.5 lecture and .5 lab hours per week) **[CB32.0108.6112]**

NCBW 0100
Non-Course-Based Writing
(1 credit)
In small-group or individual settings, NCBW 0100 develops fundamental writing skills such as idea generation, drafting, organization, and revision. Writing style and the utilization of Edited American English is emphasized as students write text to prepare them for writing in future college courses. (1 lecture hour per week) **[CB32.0108.6212]**

NCCI 0101
Writing for Non-Native Speakers
(1 credit)
NCCI 0101 focuses on American academic rhetorical struture, American academic cultural expectations, student-specific English grammar and language patterns, and complementing ENGL 1301 instruction. NCCI is designed specifically for international students and non-native speakers who enter ENGL 1301. It is only open to ENGL 1301 and ENGL 1302 students who need help acclimating to American academic culture, essay structure, and grammar requirements. NCCI is a Non-Course Based ESOL class. (1 lecture hour per week) **[CB32.0108.6312]**

NCCN 0101
ESOL Self Paced Study
(1 credit)
Combines technology-based instruction with tutorials to allow students to improve their specific English difficulties. (1 lecture hour per week) **[CB32.0108.6412]**

ESOL 0301
Basic English for Speakers of Other Languages
(3 credits)
Focus on increasing English fluency from basic to mid-intermediate levels, with an emphasis on speaking and listening. Blends classroom instruction and computer-based instruction. (3 lecture & 1 lab hour per week). **[CB32.0108.5512]**

ESOL 0302
Intermediate English for Speakers of Other Languages
(3 credits)
Focus on increasing English fluency from mid-intermediate to advanced levels, with an emphasis on preparation for academic classes. Blends classroom instruction and computer-based instruction. (3 lecture & 1 lab hour per week). **[CB32.0108.5612]**

NOTE: Developmental Integrated Reading and Writing skills are taught in DIRW/DIRR 0309 and DIRW/DIRR 0310. *These courses benefit students needing additional preparation for college-level work and those desiring only to improve their reading and writing abilities. One or all of the courses may be required by state law or by the ACC Developmental Education Plan for students whose scores on placement tests fall below established cutoff levels.*

DIRW/DIRR 0309
Developmental Integrated Reading & Writing I
(3 credits)
DIRW/DIRR 0309 is an introductory course designed to prepare students for success in completing reading and writing assignments in college classes. Therefore, this course emphasizes critical reading and academic writing skills by integrating the teaching of the two disciplines. (3 lecture, 1 lab hour per week and academic coaching.) Prerequisite: NCBW 0100 & NCBR 0200. **[CB32.0108.6012]**

DIRW/DIRR 0310
Developmental Integrated Reading & Writing II
(3 credits)
DIRW/DIRR 0310 is the higher level Integrated Reading and Writing course. It combines reading and writing skills that students need to perform effectively in college courses. The focus of the course is on the ability to read college-level material critically and to develop writing skills appropriate for written assignments in college classes. (3 lecture, 1 lab hour per week and academic coaching.) Prerequisite: DIRW/DIRR 0309 or ENGL 0309 & READ 0309. **[CB32.0108.6012]**

Accounting

Tom Branton

ACCT 2301
Financial Accounting
(3 credits)
This course concentrates on accounting for merchandise operations, proprietorships, partnerships, negotiable instruments, specialized books of original entry, and the voucher system including emphasis on the financial aspects of accounting. (3 lecture and 1 lab hours per week). **[CB5203015104]**

ACCT 2302
Managerial Accounting
(3 credits)
This course provides a study of partnerships corporations, cost accounting, assets, theory, and interpretation of financial statements, with special emphasis on the managerial aspects of accounting. (3 lecture and 1 lab hours per week). Prerequisite: ACCT 2301. **[CB5203015104]**

Agriculture

Dwight Rhodes, Department Chairperson

AGRI 1307
Fundamentals of Crop Production
(3 credits)
This course presents a scientific approach to commonly grown field crops by exploring their importance, value, use, characteristics, classification, distribution, climatic and soil requirements, production, storage, improvement, and seed technology. (3 lecture hours per week). **[CB01.1102.5101]**

AGRI 1319
Animal Husbandry
(3 credits)
This basic course acquaints the student with the production systems, basic facility requirements, and markets for various types and breeds of livestock. The course also presents basic phases of feeding, breeding, disease control, and production of livestock. (3 lecture hours per week). **[CB01.0901.5101]**

American Sign Language

SGNL 1301
Beginning American Sign Language I
(3 credits)
Introduction to American Sign Language covering finger spelling, vocabulary, and basic sentence structure in preparing individuals to interpret oral speech for the hearing impaired. (3 lecture and 1 lab hour per week) **[CB16.1603.5113]**

SGNL 1302
Beginning American Sign Language II
(3 credits)
Introduction to American Sign Language covering finger spelling, vocabulary, and basic sentence structure in preparing individuals to interpret oral speech for the hearing impaired. Prerequisite: SGNL1301 with minimum grade of C or Departmental approval. (3 lecture and 1 lab hour per week) **[CB 16.1603.5113]**

SGNL 2301
Intermediate American Sign Language I
(3 credits)
Review and application of conversational skills in American Sign Language; interpreting from signing to voice as well as from voice to signing. Introduction to American Sign Language literature and folklore. Prerequisite: SGNL 1302 with minimum grade of C or Departmental approval. (3 lecture and 1 lab hour per week) **[CB 16.1603.5213]**

SGNL 2302
Intermediate American Sign Language II
(3 credits)
Review and application of conversational skills in American Sign Language; interpreting from signing to voice as well as from voice to signing. Introduction to American Sign Language literature and folklore. Prerequisite: SGNL 2301 with minimum grade of C or Departmental approval.(3 lecture and 1 lab hour per week) **[CB 16.1603.5213]**

Anthropology

Traci Elliott, Department Chairperson

ANTH 2301
Physical Anthropology
(3 credits)
This course provides an overview of human origins and biocultural adaptations. It also introduces methods and theory in the excavation and interpretation of material remains of past cultures. (3 lecture hours per week) Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB45.0301.5125]**

ANTH 2302
Introduction of Archeology
(3 credits)
This course is a study of human history which describes the major cultural developments in humanity's past and explores the methods used by archeologists to retrieve, process and analyze material remains of past cultures. (3 lecture hours per week) Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB45.0301.5125]**

ANTH 2346
General Anthropology
(3credits)
This course follows the principles of physical and cultural anthropology, this course analyzes the cultures of prehistoric and existing preliterate people and the impact of modern western culture (3 lecture hours per week) Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB45.0201.5125]**

ANTH 2351
Cultural Anthropology
(3 credits)
This course provides a survey of cultures around the world in order to explain the key concepts, methods and theories used in the study of cultural diversity, social institutions, linguistics, and cultural change among world peoples. (3 lecture hours per week) Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB45.0201.5325]**

Arts

Dennis LaValley, Department Chairperson
Carlos Ordonez

ARTS 1301
Art Appreciation
(3 credits)
This general course in Art Appreciation is open to all college students. It includes critical evaluation of selected works of painting, sculpture, architecture, and industrial design and a study of the principles of design from a layman's standpoint and of art in relation to everyday life. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB50.0703.5126]**

ARTS 1303
Art History I
(3 credits)
This course includes a critical and analytical study of the great historical works of art in architecture, sculpture, painting, and the minor arts from pre-historic times through the medieval period. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB50.0703.5226]**

ARTS 1304
Art History II
(3 credits)
This course provides a critical and analytical study of the great historical works of art in architecture, sculpture, painting, and the minor arts from the medieval period to contemporary art. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB50.0703.5226]**

ARTS 1311
Design I
(3 credits)
This course familiarizes the student with the basic elements and fundamentals of two-dimensional design and their application to works of art. In addition to scheduled class hours, students should arrange three additional hours per week to work on art projects. (3 lecture & 3 lab hours per week). **[CB50.0401.5326]**

ARTS 1312
Design II
(3 credits)
This course provides the student with a knowledge of the application of design principles to three-dimensional work. In addition to scheduled class hours, students should arrange three additional hours per week to work on art projects. (3 lecture & 3 lab hours per week). **[CB50.0401.5326]**

ARTS 1316
Drawing I
(3 credits)
This beginning course investigates a variety of media, techniques, and subjects and explores descriptive and perceptual possibilities of drawing. In addition to scheduled class hours, students should arrange three additional hours per week to work on art projects. (3 lecture & 3 lab hours per week) **[CB50.0705.5226]**

ARTS 1317
Drawing II
(3 credits)
This course is an expansion of the concepts presented in Drawing I, and it stresses the expressive and conceptual aspects of drawing in various media. In addition to scheduled class hours, students should arrange three additional hours per week to work on art projects. (3 lecture & 3 lab hours per week). Prerequisite: ARTS 1316 **[CB50.0705.5226]**

ARTS 2316
Painting I
(3 credits)
This course explores the potentials of various painting media with stress on color and composition. In addition to scheduled class hours, students should arrange three additional hours per week to work on art projects. (3 lecture & 3 lab hours per week). **[CB50.0708.5226]**

ARTS 2317
Painting II
(3 credits)
This course is an expansion of the concepts presented in Painting I with unrestricted subject matter. In addition to scheduled class hours, students should arrange three additional hours per week to paint. (3 lecture & 3 lab hours per week). Prerequisite: ARTS 2316. **[CB50.0708.5226]**

ARTS 2326
Sculpture I
(3 credits)
This course provides students with experience in sculpture in clay, wood, and found object materials. Art majors are expected to take a sculpture course. Students should arrange three additional hours per week to work in sculpture.(3 lecture & 3 lab hours per week) **[CB50.0709.5126]**

ARTS 2327
Sculpture II
(3 credits)
This course provides students with experience in sculpture in clay, wood, and found object materials. It is an expansion of the concepts presented in Sculpture I. Students should arrange three additional hours per week to work in sculpture. Prerequisite: ARTS 2326 (3 lecture & 3 lab hours per week) **[CB50.0709.5126]**

ARTS 2333
Printmaking I
(3 credits)
This course introduces students to printmaking techniques and principles. The student will explore woodcut, etching, dry point, monoprint and linocut methods. In addition to scheduled class hours, students should arrange three additional hours per week to work on projects. (3 lecture & 3 lab hours per week) **[CB50.0710.5126]**

ARTS 2334
Printmaking II
(3 credits)
This course is an extension of Printmaking I with the inclusion of serigraphy and lithography. In addition to scheduled class hours, students should arrange three additional hours per week to work on projects. Prerequisite: ARTS 2333 (3 lecture & 3 lab hours per week) **[CB50.0710.5126]**

ARTS 2341
Jewelry & Arts Metal I
(3 credits)
This course explores various methods of metal fabrication with an emphasis on jewelry making. The principles of two and three dimensional design are given careful consideration. The history and contemporary trends of art metals are examined. (3 lecture & 3 lab hours per week) **[CB50.0713.5126]**

ARTS 2342
Jewelry & Arts Metal II
(3 credits)
This course is a continuation of Art Metals I. It explores metal fabrication, jewelry making, history and contemporary trends. Prerequisite: ARTS 2341. (3 lecture & 3 lab hours per week). **[CB50.0713.5126]**

ARTS 2346
Ceramics I
(3 credits)
This course includes an introduction to hand building processes and glaze application. Students learn to use the potter's wheel with emphasis on individual expression. In addition to scheduled class hours, students should arrange three additional hours per week to work on art projects. (3 lecture & 3 lab hours per week) **[CB50.0711.5126]**

ARTS 2347
Ceramics II
(3 credits)
This course includes the combining of hand building and wheel thrown objects. Students learn the techniques of section pottery throwing. In addition to glaze application and kiln firing, Raku pottery will be introduced. Students should arrange at least three additional hours per week. (3 lecture & 3 lab hours per week) Prerequisite: ARTS 2346. **[CB50.0711.5126]**

ARTS 2348
Digital Art I
(3 credits)
This course includes an introduction to the processes and techniques of advertising art. In addition to scheduled class hours, students should arrange three additional hours per week to work on art projects. (3 lecture & 3 lab hours per week) **[CB50.0402.5226]**

ARTS 2349
Digital Art II
(3 credits)
This course is an advanced study of advertising art and production. In addition to scheduled class hours, students should arrange three additional hours per week to work on art projects. Prerequisite: ARTS 2348 (3 lecture & 3 lab hours per week) **[CB50.0402.5226]**

ARTS 2356
Photography I
(3 credits)
Introductory class designed to learn basic control of a camera. This includes digital and film cameras. This covers, composition, technical aspects and concepts for creating successful photographs. History of photgraphy, film processing, darkroom printing, digital manipulation, file management and porfolio presentation is taught. Film cameras provided. (3 lecture & 3 lab hours per week) **[CB50.0605.5126]**

ARTS 2357
Photography II
(3 credits)
This course builds upon the techniques and concepts presented in Photography I and focuses on continued development of printing and developing skills with emphasis placed on the development individual expression. (3 lecture & 3 lab hours per week) Prerequisite: ARTS 2356 **[CB50.0605.5226]**

ARTS 2366
Watercolor I
(3 credits)
Students explore the watercolor medium as a means of artistic expression through interpretation of still life, landscape, and figure subjects. In addition to scheduled class hours, students should arrange three additional hours per week to work on art projects. (3 lecture & 3 lab hours per week) **[CB50.0708.5326]**

ARTS 2367
Watercolor II
(3 credits)
This course presents a deeper exploration in the field of the watercolor medium as a means of artistic expression through interpretation of still life, landscape, figure, and non-objective approaches. In addition to scheduled class hours, students should arrange three additional hours per week to work on art projects. Prerequisite: ARTS 2366.(3 lecture & 3 lab hours per week) **[CB50.0708.5326]**

Astronomy

Dora Devery, Department Chairperson
Joseph Mills

ASTR 1403
Stars and Galaxies
(4 credits)
An introductory course that will concentrate on the origin, life and fate of the stars, star clusters, galaxies, and cosmology. An appropriate lab program will include lab experiments, telescope observations, field trips, and Internet research. This is a course for non-science majors who need natural science credit or anyone interested in the study of the universe. (3 lecture and 3 lab hours per week) **[CB40.0201.5103]**

ASTR 1404
Solar System
(4 credits)
Introductory planetary astronomy course which includes basic material on the history of astronomy, physics of planetary motion, the nature of light, operation of telescopes, formation of solar system, terrestrial planets, Jovian planets, Kuiper Belt objects, comets, and asteroids. Lab includes observing the stars, nebulae, galaxies, planets, and a variety of exercises in observational astronomy. (3 lecture and 3 lab hours per week) **[CB40.0201.5203]**

Biology

Dwight Rhodes, Department Chairperson
Jerrod Butcher, John Matula, Tommy Dan Morgan, Stephanie Havemann

BIOL1308
Biology for Non-Science Majors I
(3 credits)
Provides a survey of biological principles with an emphasis on humans, including chemistry of live, cells, structure, function and reproduction. (3 lecture hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. **[CB26.0101.5103]**

BIOL1309
Biology for Non-Science Majors II
(3 credits)
This course will provide a survey of biological principles with an emphasis on evolution, ecology, plant and animal diversity, and physiology. (3 lecture hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. **[CB26.0101.5103]**

BIOL1322
Nutrition & Diet Therapy
(3 credits)
This course introduces general nutritional concepts in health and disease and includes practical applications of that knowledge. Special emphasis is given to nutrients and nutritional processes including functions, food sources, digestion, absorption, and metabolism. Food safety, availability, and nutritional information including food labels, advertising, and nationally established guidelines are addressed. (3 lecture hours per week). Prerequisite: BIOL 2401. **[CB19.0501.5109]**

BIOL1406
Biology for Majors I
(4 credits)
Fundamental principles for living organisms will be studied, including physical and chemical properties for life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, and scientific reasoning are included. (3 lecture and 3 lab hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. **[CB26.0101.5103]**

BIOL 1407
Biology for Majors II
(4 credits)
The diversity and classification of life will be studied. Including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals. (3 lecture and 3 lab hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. **[CB26.0101.5103]**

BIOL 2306
Environmental Biology
(3 credits)
Principles of environmental systems and ecology, including biogeochemical cycles, energy transformations, abiotic interactions, symbiotic relationships, natural resources and their management, lifestyle analysis, evolutionary trends, hazards and risks, and approaches to ecological research. (3 lecture hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310 **[CB03.0103.5101]**

BIOL 2401
Anatomy and Physiology I
(4 credits)
Study of the structure and function of human anatomy, including the neuroendocrine, integumentary, musculoskeletal, digestive, urinary, reproductive, respiratory, and circulatory systems. Content may be integrated or specialized. (3 lecture and 3 lab hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. **[CB26.0707.5103]**

BIOL 2402
Anatomy and Physiology II
(4 credits)
Study of the structure and function of human anatomy, including the neuroendocrine, integumentary, musculoskeletal, digestive, urinary, reproductive, respiratory, and circulatory systems. Content may be integrated or specialized. It is recommended that a student receive a grade of a "C" or better in Biology 2401 before taking this course. (3 lecture and 3 lab hours per week). Prerequisite: BIOL 2401. **[CB26.0707.5103]**

BIOL 2420
Basic Microbiology
(4 credits)
This one-semester course in microbiology stresses the principles and applications of microbial activity, with emphasis given to the bacterial types. This course stresses the role of micro-organisms in disease, ecology, sanitation, industry, and public health as well as considering sterilization techniques, pure culture techniques, and other aspects of microbial control. Basic Microbiology is recommended for students in biology, pre-med, pre-dental, nursing, and related medical fields. (3 lecture and 3 lab hours per week). Prerequisites: Either BIOL1406 or BIOL 1407, or BIOL 2401, or BIOL 2402. **[CB26.0503.5103]**

Business Administration

BUSI 1301
Introduction to Business
(3 credits)
An overview of the American system of free enterprise, this course concentrates on business and its environment, organization and management of the enterprise, management of human resources, production, marketing, and finance. Primary emphasis is placed on the way American businesses work, what they can do well, and what they do poorly. (3 lecture hours per week). **[CB52.0101.5104]**

BUSI 1307
Personal Finance
(3 credits)
Personal and family accounts, budgets and budgetary control, bank accounts, charge accounts, borrowing, investing, insurance, standards of living, renting or home ownership, and wills and trust plans. (3 lecture hours per week). **[CB 19.0401.5109]**

BUSI 2301
Business Law
(3 credits)
An exploration of the role of law in business and society, including government regulation of business, legal reasoning, business organizations, anti-trust and employment law. Prerequisites: DIRW/DIRR 0309 or ENGL 0309 & READ 0309.
(3 lecture hours per week). **[CB22.0101.5124]**

Chemistry

Dora Devery, Department Chairperson
Esther Kempen

CHEM 1405
Introductory Chemistry I
(4 credits)
Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. Designed for non-science and allied health students. (3 lecture and 3 lab hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. **[CB40.0501.5103]**

CHEM 1411
General Chemistry I
(4 credits)
Fundamental principles of chemistry for majors in the sciences, health sciences, and engineering; topics include measurements, fundamental properties of matter, states of matter, chemical reactions, chemical stoichiometry, periodicity of elemental properties, atomic structure, chemical bonding, molecular structure, solutions, properties of gases and an introduction to thermodynamics and descriptive chemistry. It is recommended to have had previous coursework in chemistry within the last five years; at least high schol chemistry or CHEM 1405. (3 lecture and 3 lab hours per week). Prerequisites: MATH 1314. **[CB40.0501.5403]**

CHEM 1412
General Chemistry II
(4 credits)
Chemical equilibrium; phase diagrams and spectrometry; acid-base concepts; thermodynamics; kinetics; electrochemistry; nuclear chemistry; an introduction to organic chemistry and descriptive inorganic chemistry. It is recommended that a student receive a grade of a "C" or better in CHEM 1411 before taking this course. (3 lecture and 3 lab hours per week) Prerequisite: CHEM 1411. **[CB40.0501.5703]**

CHEM 2423
Organic Chemistry I
(4 credits)
Study of the properties and behavior of hydrocarbon compounds and their derivatives. Designed for students in science or pre-professional programs. This course covers general principles and theories of elementary organic chemistry, with special emphasis on characteristics, structures, preparation, reactions, and nomenclature of hydrocarbons, alkyl halides, alcohols, and ethers. The student is introduced to micro-scale lab techniques. It is recommended that a student receive a grade of a "C" or better in CHEM 1412 before taking this course. (3 lecture and 4 lab hours per week). Prerequisite: CHEM 1412. **[CB40.0504.5203]**

CHEM 2425
Organic Chemistry II
(4 credits)
Study of the properties and behavior of hydrocarbon compounds and their derivatives. Designed for students in science or pre-professional programs. This course covers general principles and theories of elementary organic chemistry, with special emphasis on characteristics, structures, preparation, reactions, and nomenclature of aldehydes, ketones, carboxylic acids, and amines. This course also covers stereochemistry and some elementary concepts in biochemistry. Microscale lab techniques are utilized. It is recommended that a student receive a grade of a "C" or better in CHEM 2423 before taking this course. (3 lecture and 4 lab hours per week). Prerequisite: CHEM 2423. **[CB40.0504.5203]**

Child Development / Education

Jeanine M. Wilburn, Department Chairperson

CDEC 1313
Curriculum Resources for Early Childhood Programs
(3 credits)
A study of the fundamentals of curriculum design and implementation in developmentally appropriate programs for children. The student will define developmentally appropriate practices; describe the process of child-centered curriculum development; and develop guidelines for creating developmentally appropriate indoor and outdoor learning environments. The student will apply an understanding of teacher roles in early childhood classrooms; prepare a developmentally appropriate schedule including routines and transitions; and select, plan, implement, and evaluate developmentally appropriate learning experiences for children. (3 lecture hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. **[CIP19.0709]**

CDEC 1317
Child Development Associate Training I
(3 credits)
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. The student will identify methods to advance physical and intellectual competence; describe the CDA process, develop general observation skills and summarize basic child growth and development; utilize skills in writing, speaking, teamwork, time management, creative thinking, and problem solving. (3 lecture and 2 lab hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. **[CIP19.0709]**

CDEC 1319
Child Guidance
(3 credits)
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. The student will summarize theories related to child guidance; explain how appropriate guidance promotes autonomy, self-discipline and life-long social skills in children; recognize the importance of families and culture in guiding children; and promote development of positive self-concept and prosocial behaviors in children. The student will apply appropriate guidance techniques to specific situations relating to children's behaviors and demonstrate skills in helping children resolve conflicts. (3 lecture and 1 lab hour per week). Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP19.0709]**

CDEC 1321
The Infant and Toddler
(3 credits)
A study of appropriate infant and toddler programs (birth to age 3), including an overview of development, quality caregiving routines, appropriate environments, materials and activities, and teaching/guidance techniques. The student will summarize prenatal development and the birth process; discuss theories of development as they apply to infants and toddlers; outline growth and development of children from birth to age 3; analyze components of quality infant/toddler caregiving and elements of appropriate indoor and outdoor environments. The student will provide developmentally appropriate materials and activities and use developmentally appropriate teaching/guidance techniques. (3 lecture hours per week). Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP19.0709]**

CDEC 1356
Emergent Literacy for Early Childhood
(3 credits)
An exploration of principles, methods, and materials for teaching young children language and literacy through a play-based integrated curriculum. The student will define literacy and emergent literacy; analyze various theories of language development; and describe the teacher's role in promoting emergent literacy. The student will create literacy environments for children; and select and share appropriate literature with children. (2 lecture and 3 lab hours per week). Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP19.0706]**

CDEC 1358
Creative Arts for Early Childhood
(3 credits)
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. The student will define the creative process; describe the role of play in a child's growth and development and developmental sequences for creative arts; analyze teacher roles in enhancing creativity; describe concepts taught through the creative arts and components of creative environments. The student will plan, implement, and assess child-centered activities for music, movement, visual arts, and dramatic play. (2 lecture and 3 lab hours per week). Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP19.0709]**

CDEC 1359
Children With Special Needs
(3 credits)
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. The student will summarize causes, incidences and characteristics of exceptionalities related to the domains of development; discuss current terminology and practices for intervention strategies; identify appropriate community resources and referrals for individual children and families; review legislation and legal mandates and their impact on practices and environments; explain the role of advocacy for children with special needs and their families. The student will use various types of materials and resources, including current technology, to support learning in all domains for all children. (3 lecture hours per week). Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP19.0709]**

CDEC 1384
Cooperative Ed. In Child Development I
(3 credits)
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. The student will, as outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. (1 lecture and 20 lab hours per week). Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310 and 6 hours of CDEC **[CIP19.0706]**

CDEC 2307
Math and Science for Early Childhood
(3 credits)
An exploration of principles, methods, and materials for teaching children math and science concepts through discovery and play. The student will relate the sequence of cognitive development to the acquisition of math and science concepts and describe the scientific process and its application to the early childhood indoor and outdoor learning environments. The student will develop strategies which promote thinking and problem-solving skills in children; utilize observation and assessment as a basis for planning discovery experiences for the individual child; and create, evaluate, and/or select developmentally appropriate materials, equipment and environments to support the attainment of math and science concepts. (2 lecture and 3 lab hours per week). Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP19.0709]**

CDEC 2322
Child Development Associate Training II
(3 credits)
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. The student will explain methods to establish and maintain a safe, healthy learning environment, describe ways to support social and emotional development, and describe techniques used to provide positive guidance. The student will utilize skills in writing, speaking, problem solving, time management, and record keeping. (1 lecture and 5 lab hours per week). Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP19.0709]**

CDEC 2324
Child Development Associate Training III
(3 credits)
A continuation of the study 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. The student will describe methods to establish positive and productive relationships with families; explain methods to ensure a well-run, purposeful program responsive to participant needs; and identify how to maintain a commitment to professionalism; utilize skills in writing, speaking, problem-solving, time management, and record keeping. (1 lecture and 5 lab hours per week). Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP19.0709]**

CDEC 2384
Cooperative Ed. In Child Development II
(3 credits)
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. The student will, as outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. (1 lecture and 20 lab hours per week). Prerequisite: DIRW/DIRR 0310 or ENGL 0310, CDEC 1384. **[CIP19.0706]**

CDEC 2426
Administration of Programs for Children I
(4 credits)
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. The student will analyze the planning functions; evaluate the operational functions and interpret the supervisory functions of an administrator. The student will summarize the evaluation of functions in an early care and education program and explore methods of effective communication and utilize skills in speaking, writing, computation, and computer utilization. (3 lecture and 2 lab hours per week). Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP19.0708]**

CDEC 2428
Administration of Programs for Children II
(4 credits)
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. The student will discuss codes of conduct; describe communication skills needed in effectively administering an early care and education program; discuss the importance of parent education/partnerships in early care and education programs; explain the administrator's role in advocacy; describe personnel management skills necessary to administer programs; explain legal issues which impact programs; evaluate fiscal responsibilities of an administrator; and examine current technology and issues in early care and education administration. The student will utilize skills in speaking, writing, computation, and computer utilization. (3 lecture and 2 lab hours per week). Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310 **[CIP19.0708]**

EDUC 1301
Introduction to the Teaching Profession
(3 credits)
An enriched integrated pre-service course and content experience that provides active recruitment and institutional support of students interested in a teaching career, especially in high need fields; provides students with opportunities to participate in early field observations at all levels of P-12 schools with varied and diverse student populations; provides students with support from college and school faculty, preferably in small cohort groups, for the purpose of introduction to and analysis of the culture of schooling and classrooms; course content should be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards; and includes 16 hours of field-experience activities in P-12 schools. (3 lecture and 1 lab hour per week) Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB1301015109]**

EDUC 2301
Special Populations
(3 credits)
An enriched integrated pre-service course and content experience that provides 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; provides students with opportunities to participate in early field observations of P-12 special populations; should be aligned as applicable with State Board for Educator Certification Pedagogy. and Prefessional Responsibilities standards; and includes 16 hours of field-based activities, which must be with special populations in P-12 schools. (3 lecture & 1 lab hour per week). Prerequisite: EDUC 1301. **[CB13.1001.5109]**

TECA 1303
Family, School and Community
(3 credits)
A study of the child, family, community, and schools, including parent education and education and involvement, family and community lifestyles, child abuse, and current family life issues; course content is aligned as applicable with State Board for Educator Certification Pedagogy and Prefessional Responsibilities standards. Requires students to participate in field experiences of 16 hours with children from infancy through age 12 in a variety of settings with varied and diverse populations. (3 lecture and 1 field experience hour per week). Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB13.0101.5209]**

TECA 1311
Educating Young Children
(3 credits)
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; course content is aligned as applicable with State Board for Educator Certification Pedagogy and Prefessional Responsibilities standards. Requires students to participate in field experiences of 16 hours with children from infancy through age 12 in a variety of settings with varied and diverse populations. (3 lecture and 1 field experience hour per week). Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB13.1202.5109]**

TECA 1318
Wellness of the Young Child
(3 credits)
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; course content is aligned as applicable with State Board for Educator Certification Pedagogy and Prefessional Responsibilities standards. Requires students to participate in field experiences of 16 hours with children from infancy through age 12 in a variety of settings with varied and diverse populations. (3 lecture and 1 field experience hour per week). Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB13.01015309]**

TECA 1354
Child Growth and Development
(3 credits)
A study of the physical, emotional, social, and cognitive factors impacting growth and development of children through adolescence. (3 lecture hours per week). Corequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB13.1202.5209]**

Chinese

NOTE: Students cannot enroll in any Language Program (Second Language or Heritage Language) if they have not taken the Foreign Language Placement Exam required in each track. Failure to comply with this requirement may result in being dropped from the class. Based on performance on the placement exam, students may be placed in CHIN 1412, 2311 or 2312, and may earn up to 11 credit hours in Chinese.

CHIN 1411
Beginning Chinese I
(4 credits)
This course provides fundamental skills in listening comprehension, speaking, reading, and writing. It includes basic vocabulary, grammatical structures, and culture. Prerequisite: Placement Exam within a semester prior to enrollment. (3 lecture & 2 lab hours per week) **[CB 16.0301.5113]**

CHIN 1412
Beginning Chinese II
(4 credits)
This course provides fundamental skills in listening comprehension, speaking, reading, and writing. It includes basic vocabulary, grammatical structures, and culture. (3 lecture & 2 lab hours per week) Prerequisite: Successful completion of CHIN 1411 with a minimum grade of C in the 12 months prior to enrollment or by Placement Exam immediately prior to enrollment. **[CB 16.0301.5113]**

CHIN 2311
Intermediate Chinese I
(3 credits)
This course provides a review and application of skills in listening comprehension, speaking, reading, and writing. It emphasizes conversation, vocabulary acquisition, reading, composition, and culture. (3 lecture & 1 lab hour per week) Prerequisite: Successful completion of CHIN 1412 with a minimum grade of C in the 12 months prior to enrollment or by Placement Exam immediately prior to enrollment. **[CB 16.0301.5213]**

CHIN 2312
Intermediate Chinese II
(3 credits)
This course provides a review and application of skills in listening comprehension, speaking, reading, and writing. It emphasizes conversation, vocabulary acquisition, reading, composition, and culture. (3 lecture & 1 lab hour per week) Prerequisite: Successful completion of CHIN 2311 with a minimum grade of C in the 12 months prior to enrollment or by Placement Exam immediately prior to enrollment. **[CB 16.0301.5213]**

Communications

William C. Lewis, Department Chairperson
Mark Moss, Jason Nichols

COMM 1307
Introduction to Mass Communication
(3 credits)
Survey of bacis content and structural elements of mass media and their functions and influences on society. (3 lecture hours per week).
[CB09.0102.51 06]

COMM 1318 Photography I
3 credits
(Cross-listed as ARTS 2356)
Introduction to the basics of photography, including techniques and equipment operation. Photographic equipment provided. (2 lecture and 4 lab hours per week). **[CIP 50.0605.5126]**

COMM 1319 Photography II
3 credits
(Cross-listed as ARTS 2357)
This course extends the students' knowledge of technique and guides them in developing personal outlooks toward specific applications of the photographic process. An introduction to DSLR technology in video applications will be included.. Photopgraphic equipment provided. (2 lecture and 4 lab hours per week). Prerequisite: COMM 1318 or ARTS 2356. **[CIP 50.0605.5226]**

COMM 1336
Video Production I
(3 credits)
Practical experience in the operation of studio and control room equipment, including both pre- and post-production needs. (2 lecture and 4 lab hours per week). **[CB10.0202.5206]**

COMM 1337
Video Production II
(3 credits)
Practical experience in the operation of television studio, control room equipment and field production equipment and includes both pre- and post-production needs. (2 lecture and 4 lab hours per week). **[CB10.0202.52 06]**

COMM 2303
Audio/Radio Production
(3 credits)
Practical experience in the operation of audio equipment, including both pre- and post-production needs. (2 lecture and 2 lab hours per week) **[CB10.0202.51 06]**

COMM 2311
Media Writing
(3credits)
Fundamentals of writing for the mass media. Includes instruction in professional methods and techniques for gathering, processing, and delivering content. (2 lecture and 4 lab hours hours per week) **[CB09.0401.57 06]**

COMM 2326
Practicum in Electronic Media
3 credits
Lecture and lab instruction and participation. (1 lecture and 5 lab hours per week)
[CIP 09.0701.5306]

COMM 2327
Introduction to Advertising
(3 credits)
Fundamentals of advertising including marketing theory and strategy, copy writing, design, and selection of media. (3 lecture hours per week)
[CIP 09.0903.51 06]

COMM 2331
Radio/Television Announcing
(3 credits)
Principles of announcing: study of voice, diction, pronunciation, and delivery. Experience in various types of announcing. Preparation for opportunities in announcing employment in news, sports, commercial, voice talent, disk jockey, radio and TV. (3 lecture hours per week). **[CB 09.0701.54 06]**

COMM 2332
Radio/Television News
(3 credits)
Preparation and analysis of news styles for the electronic media. (2 lecture and 4 lab hours per week) **[CB09.0402.52 06]**

COMM 2366
Introduction to Cinema
(3 credits)
Emphasis on the analysis of the visual and aural aspects of selected motion pictures, dramatic aspects of narrative films, and historical growth and sociological effect of film as an art. (2 lecture and 2 lab hours per week). **[CB50.0602.51 26]**

RTVB 1150
Radio Experience I
(1 credit)
Lab experience in radio operation and announcing by broadcasting on a radio station. (4 lab hours per week). **[CIP 09.0701]**

RTVB 1250
Radio Experience I
(2 Credits)
Lab experience in radio operation and announcing by broadcasting on a radio station. (1 lecture & 2 lab hours per week) **[CIP 09.0701]**

RTVB 1301
Broadcast News Writing
(3 credits)
Instruction in the writing and organization of news copy. Topics include proper style and format used for broadcast news scripts, organization of newscasts, use of computerized news editing systems. (2 lecture and 4 lab hours per week). **[CIP09.0701]**

RTVB 1309
Audio Production
(3 credits)
Concepts and techniques of sound production including basic recording, mixing, and editing techniques. (2 lecture and 2 lab hours per week) **[CIP09.0701]**

RTVB 1321
TV Field Production
(3 credits)
Pre-production, production, and post-production process involved in field television production. Topics include field camera setup and operation, field audio, television directing, and in-camera or basic continuity editing with an emphasis on underlying principles of video technology. (2 lecture and 4 lab hours per week) **[CIP09.0701]**

RTVB 1325
TV Studio Production
(3 credits)
Basic television production. Includes live and taped studio program content, studio camera operation, and television audio. Emphasizes television producing and directing utilizing underlying principles of video technology. (2 lecture and 4 lab hours per week) **[CIP09.0701]**

RTVB 1329
Scriptwriting
(3 credits)
Writing of commercials, public service announcements, promos, news documentaries, and other broadcast and film materials. Emphasis on the format and style of each type of writing and development of a professional writing style. (2 lecture and 4 lab hours per week) **[CIP09.0701]**

RTVB 1355
Radio and Television Announcing
(3 credits)
Radio and TV announcing skills such as voice quality, articulation, enunciation, and pronunciation. Preparation for opportunities in announcing employment in news, sports, commercial, voice talent, and disk jockey and radio and TV. (2 lecture and 4 lab hours per week) **[CIP09.0701]**

RTVB 1380,1381, 2380, 2381
Cooperative Education – Radio and Television
(3 credits)
Radio and TV announcing skills such as voice quality, articulation, enunciation, and pronunciation. Preparation for opportunities in announcing employment in news, sports, commercial, voice talent, and disk jockey and radio and TV. (1 lecture and 20 lab hours per week) . **[CIP09.0701]**

RTVB 1391
Special Topics in Radio and Television Broadcasting
(3 credits)
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. (2 lecture and 4 lab hours per week) **[CIP09.0701]**

RTVB 2250
Radio Experience II
(2 credits)
Advanced lab experience in radio operation and announcing by broadcasting on a radio station. (4 lab hours per week). **[CIP 09.0701]**

RTVB 2331
Audio/Radio Production III
(3 credits)
Advanced concepts in audio/radio recording and editing, including digital editing, sound processing systems, and multitrack mix down recording techniques. (2 lecture and 4 lab hours per week) **[CIP09.0701]**

RTVB 2337
TV Production Workshop I
(3 credits)
Application and design of video productions in location or studio shooting environments with real deadlines and quality control restrictions. Students will produce programming for KACC-TV. (2 lecture and 4 lab hours per week) **[CIP09.0701]**

RTVB 2340
Portfolio Development
(3 credits)
Preparation and presentation of a portfolio suitable for employment in the media industry. This course is intended to be taken in the last semester.
(1 lecture and 6 lab hours per week) Prerequisite: RTVB 1301 or COMM 2311 **[CIP 09.0701]**

Computer Information Technology

Cathy LeBouef, Richard Melvin

It is the responsibility of all students taking a computer internet course(s) to contact their instructor(s) at the beginning of the semester.

In the BCIS 1305 or COSC 1301, Internet course, it is necessary for students to use the same textbook and software version that is being used at Alvin Community College Computer Information Technology Department. This allows students to locate correct assignments and examples. Internet students taking a computer course have access to the computer laboratories when space is available.

In internet programming courses, it is recommended that students use the same software that is used at ACC. The student accepts the responsibility of installing the necessary software and creating the necessary files. Internet students taking a computer programming course have access to the laboratories when space is available.

BCIS 1305
Business Computer Applications
(3 credits)
Overview of computer terminology - hardware, operating systems, and microcomputer application software, including the Internet, word processing, spreadsheets, presentation graphics, and databases relating to the business environment. Current issues such as the effect of computers on society, and the history and use of computers in business and educational fields of study. The course is not intended to count toward a student's major field of study in business or computer science. (2 lecture and 4 lab hours per week). Prerequisite: DIRW/DIRR 0309 or READ 0309. **[CIP 11.0202.5204]**

BCIS 1405
Business Computer Applications
(4 credits)
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 businessoriented utilization of the Internet. (3 lecture and 3 lab hours per week). Prerequisite: DIRW/DIRR 0309 or READ 0309. **[CIP 11.0202.5404]**

BCIS 1420
Introductory C Programming
(4 credits)
Introduces the fundamental concepts of structured programming in the "C" language. Topics include data types; control structures; functions, structures, arrays, pointers, pointer arithmetic, unions, and files; the mechanics of running, testing, and debugging programs; introduction to programming; and introduction to the historical and social context of computing. (3 lecture and 3 lab hours per week). Prerequisite: NCBM 0200 or MATH 0309. Corequisite: BCIS 1305 or COSC 1301 or COSC 1415. **[CIP 11.0202.5204]**

COSC 1301
Introduction to Computing
(3 credits)
Overview of computer systems—hardware, operating systems, and microcomputer application software, including the Internet, word processing, spreadsheets, presentation graphics, and databases. Current issues such as the effect of computers on society, and the history and use of computers in business, educational, and other modern settings are also studied. This course is not intended to count toward a sltudent's major field of study in business or computer science. (2 lecture and 4 lab hours per week). Prerequisite: DIRW/DIRR 0309 or READ 0309. **[CIP 11.0101.5107]**

COSC 1401
Introduction to Computing
(4 credits)
Overview of computer systems—hardware, operating systems, and microcomputer application software, including the Internet, word processing, spreadsheets, presentation graphics, and databases. Current issues such as the effect of computers on society, and the history and use of computers in business, educational, and other modern settings are also studied. This course is not intended to count toward a sltudent's major field of study in business or computer science. (3 lecture and 3 lab hours per week). Prerequisite: DIRW/DIRR 0309 or READ 0309. **[CIP 11.0101.5107]**

COSC 1415
Fundamentals of Programming
(4 credits)
Introduction to computer programming. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes coverage of language syntax, data and file structures, input/output devices, and disks/files. (3 lecture and 3 lab hours per week. Prerequisite: DIRW/DIRR 0309 or READ 0309. **[CIP 11.0201.5207]**

COSC 1420
Computer Programming -- C++
(4 credits)
Introduces the fundamental concepts of structured programming in the "C++" language. Topics include data types; control structures; functions, structures, arrays, pointers, pointer arithmetic, unions, and files; the mechanics of running, testing, and debugging programs; introduction to programming; and introduction to the historical and social context of computing. (3 lecture and 3 lab hours per week). Prerequisite: NCBM 0200 or MATH 0309, and BCIS 1305 or COSC 1301 or COSC 1415. **[CIP 11.0201.5207]**

COSC 1430
Computer Programming - JAVA
(4 credits)
Introduction to computer programming in various programming languages. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes coverage of language systax, data and file structures, input/output devices, and disks/files. (3 lecture and 3 lab hours per week). Prerequisite: BCIS 1420 or 1431, or COSC 1420 or 1436 or 1437 or ITSE 1407 or 1422 or 1431. **[CIP 11.0201.5207]**

COSC 1436
Programming Fundamentals I - C Programming
(4 credits)
This course introduces the fundamental concepts of structured programming, and provides a comprehensive introduction to programming for computer science and technology majors. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. This course assumes computer literacy. This course may use instructional examples and assignments from various programming languages, including but not limited to C, C++, C#, and/or Java. COSC 1436 or any higher level COSC course will meet the core curriculum and/or Associate in Arts or Associate in Sciences requirement. (This course is included in the Field of Study Curriculum for Computer Science.) (3 lecture and 3 lab hours per week) Prerequisite: NCBM 0200 or MATH 0309, and BCIS 1305 or COSC 1301 or 1415. **[CIP 11.0201.5507]**

COSC 1437
Programming Fundamentals II - C++
(4 credits)
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. This course may use instructional examples and assignments from various programming languages, including but not limited to C, C++, C#, and/or Java. COSC 1437 or any higher level COSC course will meet the core curriculum and/or Associate in Arts or Associate in Sciences requirement. (This course is included in the Field of Study Curriculum for Computer Science.) (3 lecture and 3 lab hours per week). Prerequisite: NCBM 0200 or MATH 0309, and BCIS 1305 or COSC 1301 or 1415. **[CIP 11.0201.5607]**

COSC 2315
Data Structures
(3 credits)
Further applications of programming techniques. Topics may include file access methods, data structures and modular programming, program testing and documentation, and other topics not normally covered in an introductory computer programming course. (3 lecture hours per week). Prerequisite: COSC 1420 or COSC 1437 or ITSE 1407. **[CIP 11.0201.5307]**

COSC 2425
Computer Organization and Machine Language
(4 credits)
Basic computer organization; machine cycle, digital representation of data and instructions; assembly language programming, assembler, loader, macros, subroutines, and program linkages. (3 lecture and 3 lab hours per week). Prerequisite: BCIS 1420 or 1431 or COSC 1420 or 1436 or 1437 or ITSE 1407 or 1422 or 1431. **[CIP 11.0201.5407]**

COSC 2436
Programming Fundamentals III - JAVA
(4 credits)
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. This course may use instructional examples and assignments from various programming languages, including but not limited to C, C++, C#, and/or Java. COSC 2436 or any higher level COSC course will meet the core curriculum and/or Associate in Arts or Associate in Sciences requirement. (3 lecture and 3 lab hours per week) Prerequisite: BCIS 1420 or 1431 or COSC 1420 or 1436 or 1437 or ITSE 1407 or 1422 or 1431. **[CIP 11.0201.5707]**

GAME 1436
Introduction to 3-D Game Modeling
(4 credits)
Architectural spaces and modeling in a real-time game editor. Includes techniques for building, texturing, and lighting a game level to function in real-time. (3 lecture and 3 lab hours per week) . Prerequisite: NCBM 0200 or MATH 0309. **[CIP 10.0304]**

GAME 2409
Video Game Art II
(4 credits)
A study of industry-used, game-art techniques and its applications of game art assets. Utilizes tools and advanced techniques in the creation of assets for a game engine. 2D and 3D graphics, sound, and animation. Includes object-oriented design of games, discrete event simulation and state machines, management of game time, and game Graphical User Interface implementation. (3 lecture and 3 lab hours per week). Prerequisite: GAME 1436. **[CIP 10.0304]**

IMED 2415
Web Design
(4 credits)
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. (3 lecture and 3 lab hours per week) Prerequisite: DIRW/DIRR 0309 or READ 0309 **[CIP 11.0801]**

ITMT 1302
Windows Seven Configuration
(3 credits)
A study of Windows Seven operating system; installation, configuration, and troubleshooting; file management; users accounts and permissions;security features; network connectivity; setup of external devices; optimization and customization; and deployment of application, with hand-on experience. (2 lecture and 2 lab hours per week). **[CIP 11.0901]**

ITMT 2301
Windows Server 2008 Network Infrastructure Configuration
(3 credits)
A course in Windows Server 2008 networking infrastructure to include installation, configuration, and troubleshooting of Internet Protocol (IP) addressing, network services and security. (2 lecture and 2 lab hours per week). Prerequisite ITMT 1302. **[CIP 11.0901]**

ITMT 2302
Windows Server 2008 Active Directory Configuration
(3 credits)
A study of Active Directory Service on Windows Server 2008. Concepts of resource management within an enterprise network environment. (2 lecture and 2 lab hours per week). Prerequisite ITMT 1302. **[CIP 11.0901]**

ITMT 2322
Windows Server 2008 Applications Infrastructure Configuration
(3 credits)
A course in the installation, configuring, maintaining, and troubleshooting of an Internet Information Services (IIS) 7.0 web server and Terminal Services in Windows Server 2008 (2 lecture and 2 lab hours per week). Prerequisite ITMT 2301 or ITMT 2302. **[CIP 11.0901]**

ITMT 2351
Windows Server 2008: Server Administrator
(3 credits)
Knowledge and skills for the entry-level server administrator or information technology (IT) professional to implement, monitor and maintain Windows Server 2008 servers. (2 lecture & 2 lab hours per week). Prerequisite ITMT 2301 or ITMT 2302. **[CIP 11.0901]**

ITMT 2356
Windows Server 2008: Enterprise Administrator
(3 credits)
A capstone course in the design of Windwos Server 2008 Enterprise Network Infrastructure that meets business and technical IT requirements for network services. (2 lecture & 2 lab hours per week). Prerequisite ITMT 2302. **[CIP 11.0901]**

ITNW 1313
Computer Virtualization
(3 credits)
Implement and support virtualization of clients of servers in a networked computing environment. This course explores installation, configuration, and management of computer virtualization workstation and servers. (2 lecture and 2 lab hours per week). Prerequisite ITMT 1302. **[CIP 11.0901]**

ITNW 1325
Fundamentals of Networking
(3 credits)
Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software. (2 lecture and 2 lab hours per week). Prerequisite: ITNW-1358. **[CIP 11.1002]**

ITNW 1353
Supporting Network Server Infrastructure
(3 credits)
Installing, configuring, managing, and suporting a network infrastructure. Install and configure DHCP, DNS, remote access, network security using public key infrastructure; integrate network services; and deploy operating systems using remote installation services. (2 lecture and 2 lab hours per week). Prerequisite: ITMT 1302. **[CIP 11.0901]**

ITNW 1354
Implementing and Supporting Servers
(3 credits)
Configure peripherals and devices; set up servers; configure directory replication; manage licensing; create and manage system policies and profiles; administer remote servers and disk resources; create and share resources; implement fault-tolerance; configure servers for interoperability; install and configure Remote Access Service (RAS); and identify and monitor performance bottlenecks and resolve configuration problems. (2 lecture and 2 lab hours per week). Prerequisite: ITMT 1302. **[CIP 11.0901]**

ITNW 1358
Network+
(3 credits)
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 individuals to pass the Computing Technology Industry Association (CompTIA) Network+ certification exam. (2 lecture & 2 lab hours per week) .**[CIP 11.0901]**

ITNW 2321
Networking with TCP/IP
(3credits)
Set up, configure, use, and support Transmission Control Protocol/Internet Protocol (TCP/IP) on networking operating systems. Configure IP addressing and routing; design and implement a domain name server; implement static and dynamic IP addressing; explain subnets and supernets; and use network management utilities to manage and troubleshoop IP networks. (2 lecture and 2 lab hours per week). Prerequisite: ITMT 1302. **[CIP 11.0901]**

ITSC 1305
Introduction to PC Operating Systems
(3 credits)
Introduction to personal computer operating systems including installation, configuration, file management, memory and storage management, control of peripheral devices, and use of utilities. (2 lecture and 2 lab hours per week). **[CIP 11.0101]**

ITSC 1325
Personal Computer Hardware
(3 credits)
Current personal computer hardware including assembly, upgrading, setup, configuration, and troubleshooting. (2 lecture and 2 lab hours per week) **[CIP 47.0104]**

ITSC 1301/1401
Introduction to Computers
(3 credits/4 credits)
Identify the components of a computer system; use common applications; explain the impact of computers on society; identify computer careers; identify fundamental programming structures; identify ethical use of computers; and use basic operating system functions. Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310.
(2 lecture and 4 lab hours per week / 3 lecture and 4 lab hours per week) **[CIP 11.0101]**

ITSC 1419
Internet/Web Page Development
(4 credits)
Instruction in the use of Internet concepts and the introduction to web page design and development. (3 lecture and 3 lab hours per week). Prerequisite: DIRW/DIRR 0309 or READ 0309. **[CIP 11.0104]**

ITSE 1407
Introduction to C++ Programming
(4 credits)
Introduction to computer programming using C++. Emphasis on the fundamentals of structured design with development, testing, implementation, and documentation. Includes language syntax, data and file structures, input/output devices, and files. (3 lecture and 3 lab hours per week). Prerequisite: NCBM 0200 or MATH 0309, and BCIS 1305 or COSC 1301 or 1415. **[CIP 11.0201]**

ITSE 1422
Introduction to C Programming
(4 credits)
Introduction to programming 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. (3 lecture and 3 lab hours per week). Prerequisite: NCBM 0200 or MATH 0309, and BCIS 1305 or COSC 1301 or 1415. **[CIP 11.0201]**

ITSE 1431
Introduction to Visual BASIC Programming
(4 credits)
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. (3 lecture and 3 lab hours per week). Prerequisite: NCBM 0200 or MATH 0309, and BCIS 1305 or COSC 1301 or 1415. **[CIP 11.0201]**

ITSE 1445
Introduction to Oracle SQL
(4 credits)
An introduction to the design and creation of relational databases using Oracle. topics include storing, retrieving, updating, and displaying data using Structured Query Language (SQL). (3 hours lecture and 3 lab hours per week). Prerequisite: ITSE 2409. **[CIP 11.0201]**

ITSE 1491
Special Topics in Computer Programming – Computer Programming
(4 credits)
This course is an introduction to computer programming. (3 lecture and 3 lab hours per week). Prerequisite: NCBM 0200 or MATH 0309, and BCIS 1305 or COSC 1301 or 1415.
[CIP 11.0201]

ITSE 2387
Internship - Computer Programming
(3 credits)
An experience external to the college for an advanced student in a specialized field involving a written agreement between the educational institution and a business or industry. Mentored and supervised by a workplace employee, the student achieves objectives that are developed and documented by the college and that are directly related to specific occupational outcomes. This may be a paid or unpaid experience. (20 lab hours per week). Prerequisite: At least 3 of the following: (BCIS 1420 or COSC 1436 or ITSE 1422) or (BCIS 1431 or ITSE 1431) or (COSC 1420 or COSC 1437 or ITSE 1407) or (COSC 1430 or COSC 2436 or ITSE 2417) or (IMED 2415 or ITSE 2402). **[CIP 11.0201]**

ITSE 2402
Intermediate Web Programming
(4 credits)
Intermediate applications for web authoring. Topics may include server side include (SSI), Perl, HTML, Java, Javascript, and/or ASP. (3 lecture and 2 lab hours per week). Prerequisite: DIRW/DIRR 0309 or READ 0309. **[CIP11.0801]**

ITSE 2409
Database Programming
(4 credits)
Application development using database programming techniques emphasizing database structures, modeling, and database access.
(3 lecture and 3 lab hours per week). Prerequisite: DIRW/DIRR 0309 or READ 0309. **[CIP11.0802]**

ITSE 2413
Web Authoring
(4 credits)
Instruction in designing and developing web pages that incorporate text, graphics, and other supporting elements using current technologies and authoring tools. (3 lecture and 3 lab hours per week). Prerequisite: DIRW/DIRR 0309 or READ 0309. **[CIP11.0801]**

ITSE 2417
JAVA Programming
(4 credits)
Introduction to JAVA programming with object-orientation. Emphasis on the fundamental syntax and semantics of JAVA for applications and web applets. (3 lecture and 3 lab hours per week). Prerequisite: BCIS 1420 or 1431, or COSC 1420 or 1436 or 1437 or ITSE 1407 or 1422 or 1431. **[CIP 11.0201]**

ITSE 2431
Advanced C++ Programming
(4 credits)
Further application of C++ programming techniques including file access, abstract data structures, class inheritance, and other advanced techniques. Develop well documented programs containing complex data structures, incorporate complex input/out file handling techniques; create classes and objects in programs; and incorporate advanced C++ techniques. (3 lecture and 3 lab hours per week). Prequisite: COSC 1420, COSC 1437, or ITSE 1407. **[CIP11.0201]**

ITSE 2449
Advanced Visual BASIC Programming
(4 credits)
Further applications of programming techniques using Visual BASIC. Topics include file access methods, data structures and modular programming, program testing and documentation. (3 lecture and 3 lab hours per week). Prerequisite: BCIS 1431 or ITSE 1431. **[CIP11.0201]**

ITSW 1404
Introduction to Spreadsheets
(4 credits)
This course is an instruction in the concepts, procedures, and application of electronic spreadsheets. This course will identify spreadsheet terminology and concepts; create formulas and functions; use formatting features; and generate charts, graphs, and reports. (3 lecture and 3 lab hours per week). Prerequisite: DIRW/DIRR 0309 or READ 0309. **[CIP11.0301]**

ITSY 1342
Information Technology Security
(3 credits)
Basic information security goals of availability, integrity, accuracy, and confidentiality. Vocabulary and terminology specific to the field of information security are discussed. Identification of exposures and vulnerabilities and appropriate countermeasures are addressed. The importance of appropriate planning and administrative controls is also discussed. (2 lecture and 2 lab hours per week). Prerequisite: ITMT 2301 or ITMT 2302. **[CIP11.1003]**

Court Reporting

Karen Downey, Micki Kincaide, Robin McCartney, Roland Scott

CRTR 1202
Law and Legal Terminology
(2 credits)
Instruction in civil and criminal judicial systems (discovery, trial and appellate processes), and the legal terms used in court reporting. (1 lecture and 4 lab hours per week). Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP22.0303]**

CRTR 1207
Machine Shorthand Speedbuilding (60-80)
(2 credits)
Continued development of realtime shorthand skills through readback, machine practice, and transcription. This course is designed to be repeated to meet program standards. (1 lecture and 4 lab hours per week) Prerequisite: CRTR 1304 **[CIP22.0303]**

CRTR 1208
Realtime Reporting I
(2 credits)
Development of computer and machine shorthand skills necessary for writing realtime for production of projects and assignments. (1 lecture and 4 lab hours per week). Prerequisites: CRTR 1214, CRTR 1306. **[CIP22.0303]**

CRTR 1214
Reporting Technology I
(2 credits)
Introduction to computer-aided transcription terminology and systems based on computer-compatible theory. The course includes lectures, dictation, and practical applications of word processing, videotaping, and computer-aided transcription, including proofreading of rough drafts and production of the finished transcript. (1 lecture and 4 lab hours per week). Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP22.0303]**

CRTR 1257
Literary/Jury Charge Dictation I (100-120)
(2 credits)
Skills necessary to develop speed and accuracy in writing and transcribing literary/jury charge dictation. The student's objective is to pass dictated tests at 100 and 120 wpm. This course is designed to be repeated to meet program standards. (1 lecture and 4 lab hours per week.) Prerequisite: CRTR 1304. **[CIP22.0303]**

CRTR 1259
Literary/Jury Charge Dictation II (140-160)
(2 credits)
Continued skill development necessary for speed and accuracy in writing and transcribing literary/jury charge dictation. (1 lecture and 4 lab hours per week.) Prerequisite: CRTR 1306. **[CIP22.0303]**

CRTR 1304
Machine Shorthand I
(3 credits)
Instruction in general principles of conflict-free machine shorthand theory and skill building through readback of dictation notes, machine practice, and transcription. (1 lecture and 8 lab hours per week). Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310 **[CIP22.0303]**

CRTR 1306
Machine Shorthand II (60-80-100)
(3 credits)
Continued development of conflict-free shorthand skills through readback of dictation notes, machine practice and transcription. The student's objective is to pass tests at 60 wpm, 80 wpm, and 100 wpm. (1 lecture and 8 lab hours per week). Prerequisites: CRTR 1304, DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP22.0303]**

CRTR 1312
Reporting Communications I
(3 credits)
Study of basic rules of English grammar and spelling, punctuation, capitalization and proofreading skills as they apply to the production of transcripts of the spoken word in the reporting field. (2 lecture and 3 lab hours per week). Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP22.0303]**

CRTR 1346
Captioning Reporting I
(3 credits)
Introduction to realtime/caption production procedures with transcription of materials produced in proper form. Topics include specialized vocabulary (legal, medical, media, education, etc.), utilizing realtime/caption equipment, the psychology for writing realtime, and the procedures for operation of realtime/captioning software and hardware (2 lecture and 3 lab hours per week.) Prerequisite: CRTR 2301. **[CIP22.0303]**

CRTR 2206
Medical Reporting
(2 credits)
Orientation to medical terms and anatomy as needed in the reporting profession. Topics include medical reporting transcription techniques and production of machine shorthand medical transcripts. Lectures, study guides, tests, and exercises designed to ensure the student's knowledge of the components in building a medical vocabulary and the application thereof. (1 lecture and 4 lab hours per week). Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310, CRTR 1304, **[CIP22.0303]**

CRTR 2217
Technical Dictation
(2 credits)
Skill development in writing and researching medical and technical material. (1 lecture and 4 lab hours per week). Prerequisite: CRTR 2301. **[CIP22.0303]**

CRTR 2231
Certified Shorthand Reporter (CSR) and Registered Professional Reporter (RPR) Prep
(2 credits)
Preparation for taking the Texas CSR and the RPR examinations through the use of mock examinations. (1 lecture and 4 lab hours per week). Prerequisites: CRTR 2303. **[CIP22.03033**

CRTR 2301
Intermediate Machine Shorthand (120-140)
(3 credits)
Continued development of conflict-free machine shorthand skills through readback of dictation notes, machine practice and transcription. The student's objective is to pass dictated tests at 120 and 140 wpm. (1 lecture and 8 lab hours per week). Prerequisite: CRTR 1306. **[CIP22.0303]**

CRTR 2303
Advanced Machine Shorthand (160-180)
(3 credits)
In-depth coverage of conflict-free shorthand theory and continued skill building through readback of dictation notes, machine practice, and transcription. The student's objective is to pass tests at 160 and 180 wpm. (1 lecture and 8 lab hours per week). Prerequisite: CRTR 2301. **[CIP22.0303]**

CRTR 2311
Reporting Communications II
(3 credits)
In-depth coverage of grammar, spelling, punctuation, capitalization, vocabulary and proofreading skills necessary to produce reporting and/or spoken word documents. The student is given dictation for transcribing and is tutored in voice and speech patterns while reading notes aloud. (2 lecture hours and 3 lab hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310, CRTR 1312. **[CIP22.0303]**

CRTR 2312
Court Reporting Procedures
(3 credits)
Instruction in the role of the court reporter in court proceedings and/or depositions. (2 lecture and 3 lab hours per week.) Prerequisite: CRTR 2301 and CRTR 1208. **[CIP22.0303]**

CRTR 2313
Reporting Technology II (Scopist)
(3 credits)
Instruction in the operation, maintenance, and assembly of a computer-aided real-time transcription system, including the computer functions necessary for transcript production. (2 lecture hours and 3 lab hours per week). Prerequisites: CRTR 1304, CRTR 1214 **[CIP22.0303]**

CRTR 2333
Captioning Reporting II
(3 credits)
In-depth presentation of realtime/caption production procedures with transcription of materials produced in proper form. Topics include the techniques utilized in reporting for seminars, conferences, and conventions and in the broadcast environments. Emphasis is placed on off-line and on-line captioning. The course includes extensive supervised community interaction. (2 lecture and 3 lab hours per week). Prerequisite: CRTR 1346. **[CIP22.0303]**

CRTR 2335
Accelerated Machine Shorthand (200-225)
(3 credits)
Mastery of high-speed dictation including readback, machine practice, and transcription. The students objective is to pass dictated tests at 200 and 225 wpm. (1 lecture and 8 lab hours per week.) Prerequisite: CRTR 2303. **[CIP22.0303]**

CRTR 2380
Cooperative Education - Scopist
(3 credits)
An experience external to the college for an advanced student in a specialized field involving a written agreement between the educational institution and a business or industry. Mentored and supervised by a workplace employee, the student achieves objectives that are developed and documented by the college and that are directly related to specific occupational outcomes. This may be a paid or unpaid experience. This course is designed for students pursuing the Court Reporting Scopist Certificate. The student will gain experience in scoping transcripts for reporters, general office procedures utilized in reporting firms, and the methods used in binding and preparing the final transcript for delivery. (1 lecture and 20 lab hours per week). Prerequisite: CRTR 1214, CRTR 2311. **[CIP22.0303]**

CRTR 2381
Cooperative Education - Court Reporter
(3 credits)
An experience external to the college for an advanced student in a specialized field involving a written agreement between the educational institutional and a business or industry. Mentored and supervised by a workplace employee, the student achieves objectives that are developed and documented by the college and that are directly related to specific occupational outcomes. This may be a paid or unpaid experience. The student may begin the cooperative upon completion of all 180 wpm requirements, and the student will achieve a minimum of 40 actual writing hours with a court reporter on job assignments. The student will produce a saleable transcript of no less than 50 pages (unpaid work). A journal will be kept by the student recounting his/her experiences on the job. The student will keep a record of actual machine writing hours. (1 lecture and 20 lab hours per week). Prerequisites: CRTR 2303 and CRTR 1214. **[CIP22.0303]**

Criminal Justice

Craig Fos, Department Chairperson
Jeff Gambrell

CJCR 1304
Probation and Parole
(3 credits)
A survey of the structure, organization, and operation of probation and parole services. Emphasis on applicable state statutes and administrative guidelines. (3 lecture hours per week). **[CIP43.0113]**

CJCR 2324
Community Resources in Corrections
(3 credits) Tech Prep/Dual Credit only
An introductory study of the role of the community in corrections in; community programs for adults and juveniles; administration of community programs; legal issues; future trends in community treatment. (3 lecture hours per week). **[CIP43.0102]**

CJLE 1211
Basic Firearms
(2 credits)
This course is one in a series of courses taught in the Police Academy. The course provides instruction and participation in Basic Firearms Training. (1 lecture hour / 2 lab hours) Prerequisites: Approval from Department Chair and enrollment in the Police Academy. **[CIP43.0107]**

CJLE 1506
Basic Peace Officer I
(5 credits)
This course is one of a series of courses taught in the Police Academy. The course provides instruction and participation in U.S. & Texas Constitution & Bill of Rights, Penal Code, Use of Force, Traffic Law & Accident Investigation, Code of Criminal Procedure, Juvenile Issues - Texas Family Code, Professionalism & Ethics. (3 lecture hours / 6 lab hours) Prerequisites: Approval from Department Chair and enrollment in the Police Academy. **[CIP43.0107]**

CJLE 1512
Basic Peace Officer II
(5 credits)
This course is one in a series of courses taught in the Police Academy. The course provides instruction and participation in Arrest, SEarch & Seizure, Patrol Procedures, Civil Process & Liability, Field Note Taking, Texas Alcoholic Beverage Code, Emergency Commun ications, Family Violence, MHMR. (3 lecture hours / 6 lab hours) Prerequisites: Approval from Department Chair and enrollment in the Police Academy. **[CIP43.0107]**

CJLE 1518
Basic Peace Officer III
(5 credits)
This course is one is a series of courses taught in the Police Academy. The course provides instruction and participation in Fitness & Wellness, Multiculturalism, History of Policing, Criminal Justice System, Drugs, Stress Management, Hazardous Materials Awareness, Victims of Crime, Problem Solfing, Professional Policing Approaches, Criminal Investigation. (3 lecture hours / 6 lab hours) Prerequisites: Approval from Department Chair and enrollment in the Police Academy. **[CIP43.0107]**

CJLE 1524
Basic Peace Officer IV
(5 credits)
This course is one in a series of courses taught in the Police Academy. The course provides instruction and participation in Mechanics of Arrest, Emergency Medical Assistance, Professional Police Driving. (3 lecture hours / 6 lab hours) Prerequisites: Approval from Department Chair and enrollment in the Police Academy. **[CIP43.0107]**

CJLE 2345
Vice and Narcotics Investigation
(3 credits)
Study of various classifications of commonly used narcotics, dangerous drugs, gambling, sex crimes, fraud, gangs and investigative techniques; and identify proper interaction procedures and techniques. (3 lecture hours per week).**[CIP43.0107]**

CJLE 2420
Texas Peace Officer Procedures
(4 credits)
Study of the techniques and procedures used by police officers on patrol. Includes controlled substance identification, handling abnormal persons, traffic collision investigation, notetaking and report writing, vehicle operation, traffic direction, crowd control, and jail operations. This is a TCOLE-approved sequencing course to satisfy requirements to sit for the Basic Peace Officer licensure exam in addition to obtaining an Associate's or Bachelor's Degree with approval of the department chair. (3 lecture and 4 lab hours per week).**[CIP43.0107]**

CJLE 2421
Texas Peace Officer Law
(4 credits)
Study of laws directly related to police field work. Topics include Texas Transportation Code, intoxicated driver, Texas Penal Code, elements of crimes, Texas Family Code, Texas Alcoholic Beverage Code, and civil liability. This is a TCOLE-approved sequencing course to satisfy requirements to sit for the Basic Peace Officer licensure exam in addition to obtaining an Associate's or Bachelor's Degree and approval of the department chair. (3 lecture and 4 lab hours per week). **[CIP43.0107]**

CJLE 2424
Texas Peace Office Capstone
(4 credits)
Recently identified current events, skills, knowledge,

and/or attitudes and behaviors that are components of the Texas Commission on Law Enforcement (TCOLE) learning objectives pertinent to a law enforcement career. This class is the capstone course of TCOLE Course 1011 (3 lecture hours and 4 lab hours per week) **[CIP43.0107]**

CJLE 2522
Texas Peace Officer Skills
(5 credits)
Requires the demonstration and practice of the skills of a police officer including patrol, driving, traffic stop skills, use of force, mechanics of arrest, firearm safety, and emergency medical care. This is a TCOLE-approved sequencing course to satisfy requirements to sit for the Basic Peace Officer licensure exam in addition to obtaining an Associate's or Bachelor's Degree and approval of the department chair. (3 lecture and 5 lab hours per week). **[CIP43.0107]**

CJSA 1308
Criminalistics I
(3 credits)
Introduction to the field of criminalistics. Topics include the application of scientific and technical methods in the investigation of crime including location, identification, and handling of evidence for scientific analysis. (3 lecture hours per week).
[CIP43.0104]

CJSA 1325 (Tech Prep/Dual Credit Only)
Criminology
(3 credits)
This course examines the cases, treatment and prevention of crime and delinquency. Students will analyze the various aspects of deviant behavior, criminological and methodological, relative to the social sciences. (3 lecture hours per week).
[CIP43.0104]

CJSA 1342
Criminal Investigation
(3 credits)Tech Prep/Dual Credit only
Investigative theory; collection and preservation of evidence; sources of information; interview and interrogation; uses of forensic sciences; case and trial preparation. (3 lecture hours per week).
[CIP 43.0104]

CJSA 1351
Use of Force
(3 credits)
A study of the use of force including introduction to and statutory authority for the use of force, force options, deadly force, and related legal issues. Fulfills the TCOLE Use of Force Intermediate Certificate requirement. (3 lecture hours per week).
[CIP43.0104]

CJSA 2323
Criminalistics II
(3 credits)
Theory and practice of crime scene investigation. Topics include report writing, blood and other body fluids, document examination, etchings, casts and molds, glass fractures, use of microscope and firearms identification. (2 lecture and 4 lab hours per week). Prerequisite: CJSA 1308 or CRIJ 2314 or Instructor Approval. **[CIP43.0104]**

CJSA 2332
Criminalistics III
(3 credits)
A study of the practical aspects of criminalistics procedures. Topics include crime scene investigation, collecting and preserving evidence, and testifying in court. (2 lecture and 4 lab hours per week). Prerequisite: CJSA 2323 or Instructor Approval. **[CIP43.0104]**

CJSA 2364, CJSA 2365
Practicum (or Field Experience) - Criminal Justice Studies, Law Enforcement
(3 credits)
Practical general training and experiences in the workplace. The College, with the employer, develops and documents an individualized plan for the student. The plan relates the workplace training and experiences to the student's general and technical course of study. The guided external experiences may be paid or unpaid. This course may be repeated if topics and learning outcomes vary. Student may enroll in only one Practicum course per semester. (21 external hours per week).
[CIP43.0104]

CRIJ 1301
Introduction to Criminal Justice
(3 credits)
History and philosophy of criminal justice and ethical considerations; crime defined; its nature and impact; overview of the criminal justice system; law enforcement; court system; prosecution and defense; trial process; corrections. (3 lecture hours per week). **[CB4301045124]**

CRIJ 1306
Court Systems and Practices
(3 credits)
The judiciary in the criminal justice system; structure of the American court system; prosecution; right to counsel; pre-trial release, grand juries; adjudication process, types and rules of evidence, and sentencing. (3 lecture hours per week). **[CB2201015424]**

CRIJ 1307
Crime in America
(3 credits)
This course explores American crime problems in a historical perspective, social and public policy factors affecting crime, impact and crime trends, social characteristics of specific crimes, and prevention of crime. (3 lecture hours per week).
[CB45.0401.5225]

CRIJ 1310
Fundamentals of Criminal Law
(3 credits)
A study of the nature of criminal law; philosophical and historical development; major definitions and concepts; classification of crime; elements of crimes and penalties using Texas statutes as illustrations; criminal responsibility. (3 lecture hours per week).
[CB22.0101.5324]

CRIJ 1313
Juvenile Justice System
(3 credits)
A study of the juvenile justice process to include specialized juvenile law, role of the juvenile law, role of the juvenile courts, role of police agencies, role of correctional agencies, and theories concerning delinquency. (3 lecture hours per week).
[CB43.0104.5224]

CRIJ 2301
Community Resources in Corrections
(3 credits)
An introductory study of 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 lecture hours per week). **[CB43.0104.5324]**

CRIJ 2313
Correctional Systems and Practices
(3 credits)
Corrections in the criminal justice system, organization of correctional systems; correctional role; institutional operations; alternatives to institutionalization; treatment and rehabilitation; current and future issues. (3 lecture hours per week). **[CB43.0104.5424]**

CRIJ 2314
Criminal Investigation
(3 credits)
Investigative theory; collection and preservation of evidence; sources of information; interview and interrogation; uses of forensic sciences; case and trial preparation. (3 lecture hours per week).
[CB43.0104.55524]

CRIJ 2323
Legal Aspects of Law Enforcement
(3 credits)
Police authority; responsibilities; constitutional constraints; laws of arrest, search, and seizure; police liability. (3 lecture hours per week).
[CB43.0104.5624]

CRIJ 2328
Police Systems and Practices
(3 credits)
The police profession; organization of law enforcement systems; the police role; police discretion; ethics, police-community interaction, current and future issues. (3 lecture hours per week). **[CB43.0104.5724]**

Culinary Arts

Leslie Bartosh, Department Chairperson

***Offered only for Texas Dept. of Criminal Justice students.**

CHEF 1205
Sanitation and Safety
(2 Credits)
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. Topics include: causes of and prevention procedures for food-borne illness, intoxication, and infection; good personal hygiene and safe food handling procedures; food storage and refrigeration techniques; sanitation of dishes, equipment, and kitchens including cleaning material, garbage, and refuse disposal; Occupational Safety and Health Administration (OSHA) requirements and effective workplace safety programs. The student has the opportunity to earn the ServSafe Certificate through this course. (2 lecture hours per week). Corequisite: CHEF 1301 **[CIP12.0503]**

CHEF 1264
Practicum - Culinary Arts/Chef Training
(2 Credits)
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. (21-30 practicum hours per week). **[CIP12.0503]**

CHEF 1265
Practicum
(2 Credits)
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. As outlined in the learning plan; apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. (21-30 practicum hours per week). Prerequisite: CHEF 1301. **[CIP12.0503]**

CHEF 1291
Current Events in Culinary Arts
(2 Credits)
Topics address recently identified current events, skills, knowledge's, 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. Topics include sustainable agriculture, aquaculture, current events affecting food safety and career exploration. (2 lecture hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. **[CIP12.0503]**

CHEF 1301
Basic Food Preparation
(3 Credits)
A study of the fundamental principles of food preparation and cookery to include the Brigade System, cooking techniques, material handling, heat transfer, sanitation, safety, nutrition, and professionalism. Knife skills, proper tool and equipment use, dry and moist heat cookery, stock and sauce production are among the topics covered. (1 lecture and 4 lab hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. Corequisite: CHEF 1305. **[CIP12.0503]**

CHEF 1302
Principles of Healthy Cuisine
(3 Credits)
Introduction to the principles of planning, preparation, and presentation of nutritionally balanced meals. Adaptation of basic cooking techniques to lower the fat and caloric content. Alternative methods and ingredients will be used to achieve a healthier cooking style. Students will modify recipes and substitute ingredients to reduce calories, sugar, fat, and sodium. (1 lecture and 4 lab hours per week). Prerequisite: CHEF 1301. **[CIP 12.0503]**

CHEF 1305**
Sanitation and Safety
(3 Credits)
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. Topics include: causes of and prevention procedures for food-borne illness, intoxication, and infection; good personal hygiene and safe food handling procedures; food storage and refrigeration techniques; sanitation of dishes, equipment, and kitchens including cleaning material, garbage, and refuse disposal; Occupational Safety and Health Administration (OSHA) requirements and effective workplace safety programs. The student has the opportunity to earn the ServSafe Certificate through this course. (3 lecture hours per week). Corequisite: CHEF 1301 **[CIP12.0503]**

CHEF 1310
Garde Manger
(3 Credits)
A study of specialty foods and garnishes. Emphasis on design, techniques, and display of fine foods. Topics will include hot and cold hors d'oeuvres, canapés, salads, basic charcuterie skills, and the preparation of forcemeat items. (1 lecture and 4 lab hours per week). Prerequisite: CHEF 1301. **[CIP12.0503]**

CHEF 1341
American Regional Cuisine
(3 Credits)
A study of the development of regional cuisine's 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. The importance of the immigration phenomena in shaping America's cuisine will be examined as students prepare regional specialties. (1 lecture and 4 lab hours per week). Prerequisite: CHEF 1301. **[CIP12.0503]**

CHEF 1345
International Cuisine
(3 Credits)
The study of classical cooking skills associated with the preparation and service of international and ethnic cuisines. Topics include similarities between food production systems used in the United States and other regions of the world. The cuisines of Latin America, France, Spain, the Middle East, Germany, Eastern Europe and Asia are explored in this class. (1 lecture and 4 lab hours per week). Prerequisite: CHEF 1301. **[CIP12.0503]**

CHEF 1365**
Practicum
(3 Credits)
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. As outlined in the learning plan; apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. (22.5 practicum hours per week). Prerequisite: CHEF 1301. **[CIP12.0503]**

CHEF 1400**
Professional Cooking and Meal Service
(4 Credits)
Technical aspects of food preparation in the commercial kitchen. This will be accomplished by preparing and serving meals according to a production schedule. Emphasis on team work, professionalism, guest relations and table service. (2 lecture and 4 lab hours per week) **[CIP12.0503]**

CHEF 1401**
Basic Food Preparation
(4 credits)
A study of the fundamental principles of food preparation and cookery to include the Brigade System, cooking techniques, material handling, heat transfer, sanitation, safety, nutrition, and professionalism. Knife skills, proper tool and equipment use, dry and moist heat cookery, stock and sauce production are among the topics covered. (2 lecture and 4 lab hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. Corequisite: CHEF 1405. **[CIP12.0503]**

CHEF 1440**
Meat Preparation and Cooking
(4 Credits)
Study of the preparation, storage, and cooking techniques for beef, pork, lamb, poultry, seafood, and game. Includes moist heat and dry heat preparation methods as related to both classical and modern methods of preparation of dishes. (3 lecture and 3 lab hours per week) **[CIP12.0503]**

CHEF 1464**
Practicum - Culinary Arts/Chef Training
(4 Credits)
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. (28 practicum hours per week). **[CIP12.0503]**

CHEF 2201
Intermediate Food Preparation
(2 Credits)
Continuation of previous food preparation course. Topics include the concept of pre-cooked food items, as well as scratch preparation. Covers full range of food preparation techniques. Topics include: product identification, sandwich and salad cookery, breakfast cookery and the utilization of convenience products. (1 lecture and 4 lab hours per week). Prerequisite: CHEF 1301. **[CIP12.0503]**

CHEF 2302
Saucier
(3 Credits)
Instruction in the preparation of stocks, soups, classical sauces, contemporary sauces, accompaniments, and the pairing of sauces with a variety of foods. Topics include: the usage and storage of stocks and sauces, emulsions, thickening agents, compound butters, dessert sauces, relishes, chutneys, compotes, vinaigrettes. (1 lecture and 4 lab hours per week). Prerequisite: CHEF 1301. **[CIP12.0503]**

HAMG 1321
Introduction to the hospitality Industry
(3 Credits)
Explain the elements of the hospitality industry; discuss current issues facing food service; discuss current guest needs; and explain general hotel/ motel operations. Explain and discuss the role of service in the hospitality industry. (3 lecture hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310 **[CIP52.0901]**

HAMG 1324
Hospitality Human Resources Management
(3 Credits)
A study of the principles and procedures of managing people in the hospitality workplace.
Topics include a systematic approach to human resources planning and implementation as it applies to the hospitality industry; including the procedures involved in making hiring decisions; training and federal laws related to employment. (3 lecture hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. **[CIP52.0901]**

IFWA 1210/1310**
Nutrition and Menu Planning
(2 Credits/3 credits)
Application of principles of nutrition in planning menus for the food service industry. (2 lecture & 1 lab hour per week / 3 lecture hours per week)
[CIP 12.0508]

IFWA 1217
Food Production and Planning
(2 Credits)
Skill development in basic mathematical operations and study of their applications in the food service industry. Topics include percentages, weights and measures, ratio and proportion, weights and measures conversions, determination of portion costs for menu items and complete menus, portion control, and the increase and decrease of standard recipes. (2 lecture hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. **[CIP12.0508]**

IFWA 1305**
Food Service Equipment & Planning
(3 credits)
A study of various types of food service equipment and the planning of equipment layout for product flow and efficient operation. (3 lecture hours per week) Prerequisite: CHEF 1301. **[CIP 12.0508]**

IFWA 1318
Nutrition for the Food Service Professional
(3 Credits)
An introduction to nutrition including nutrients, digestion and metabolism, menu planning, recipe modification, dietary guidelines and restrictions, diet and disease, and healthy cooking techniques. (3 lecture hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. **[CIP12.0508]**

IFWA 1527**
Food Preparation II
(5 Credits)
Continuation of the fundamental principles of food preparation. Emphasis on preparation of food items such as meats, poultry and fish. (2 lecture and 4 lab hours per week) **[CIP 12.0508]**

IFWA 2446**
Quantity Procedures
(4 Credits)
Exploration of the theory and application of quantity procedures for the operation of commercial, institutional, and industrial food services. Emphasis on quantity cookery and distribution. (4 lecture hours per week) **[CIP 12.0508]**

PSTR 1301
Fundamentals of Baking
(3 Credits)
The Fundamentals of baking including yeast dough, quick breads, pies, cakes, cookies, tarts, and doughnuts. Instruction in flours, fillings, and ingredients. Topics include baking terminology, tool and equipment use, kitchen safety, formula conversions, functions of ingredients, and the evaluation of baked products. (1 lecture and 4 lab hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. Corequisite: CHEF 1301 **[CIP12.0501]**

RSTO 2301
Principles of Food and Beverage Controls
(3 Credits)
A study of financial principles and controls of food service operation including review of operation policies and procedures. Topics include financial budgeting and cost analysis emphasizing food and beverage labor costs, operational analysis, and international and regulatory reporting procedures. (3 lecture hours per week). Prerequisite: DIRW/ DIRR 0310 or READ 0310, and BCIS 1305 or COSC 1301. **[CIP12.0504]**

Diagnostic Cardiovascular Sonography

Jessica Murphy, Department Chairperson
Suzanne Poston

CVTT 1161
Clinical - Cardiovascular Technology
(1 Credit)
A method of instruction providing detailed education, training, work-based experience, and direct patient care generally at a clinical site in the specialty of electrodiagnostics. Specific learning objectives related to ECG, stress testing, and holter monitoring will be met. Students will be instructed, supervised, and evaluated at the clinical site. (6 clinical hours per week). Corequisite: DSAE 1340. **[CIP51.0901]**

DMSO 1210
Introduction to Sonography
(Any student who would like to explore the profession of Sonography may take this course)
(2 credits)
This course is an introduction to the profession of Sonography and the role of the technologists. Emphasis will be placed on medical terminology ethical/legal issues, oral and written communication, management, professional issues related to registry, accreditation, sonography organizations, and the history of ultrasound and the branches of Diagnostic Medical Sonography. (2 lecture hours per week). **[CIP51.0910]**

DMSO 1342
Intermediate Ultrasound Physics
(3 credits
Continuation of Basic Ultrasound Physics. Includes interaction of ultrasound with tissues, mechanics of ultrasound production and display, various transducer designs and construction, quality assurance, bioeffects, and image artifacts. May introduce methods of Doppler flow anlaysis. (2 lecture and 2 lab hours per week). **[CIP51.0910]**

DSAE 1303
Introduction to Echocardiography Techniques (Echo I)
(3 Credits)
The purpose of this course is to introduce to scanning techniques and procedures with hands-on experience in the lab setting. Emphasis will be placed on the sonographic explanation of the normal adult heart by performing a basic scan protocol to include two-dimensional, M-Mode, and Doppler along with the standard measurements for each modality. (2 lecture and 4 lab hours per week) Corequisite: DSAE 1360. **[CIP51.0910]**

DSAE 1318
Sonographic Instrumentation
(3 credits)
The purpose of this course is to provide an overview of basic acoustical physics, properties of ultrasound, interaction of ultrasound with tissue, transducers, Doppler, instrumentation, image display, artifacts, quality assurance, bioeffects and safety of ultrasound. (2 lecture and 2 lab hours per week) **[CIP51.0910]**

DSAE 1340
Diagnostic Electrocardiography
(3 credits)
A course of study related to electrocardiography procedures such as Electrocardiography (ECG), Stress testing, and Holter monitoring. Emphasis will be placed on performing and interpreting procedures, arrhythmia recognition, cardiovascular pharmacology concepts and treatment methods. Additional topics may also include patient assessment skills, vital signs, history, and clinical monitoring. (2 lecture and 4 lab hours per week) **[CIP51.0910]**

DSAE 1360
Clinical– DMST, Introduction to Echocardiography
(3 credits)
This course is an introductory clinical for learning basic echocardiography skills. Students will observe, assist, and begin to gain hands-on experience in clinical. Emphasis will be placed on instrumentation, transducer handling, patient positioning, image orientation, and identification of anatomic structures found in basic echocardiographic views. (16 clinical hours per week) Corequisite: DSAE 1303. **[CIP51.0910]**

DSAE 2303
Cardiovascular Concepts
(this course may be taken in advance or to renew expired A&P prior to acceptance)
(3 credits)
This course offers a detailed study of anatomy, physiology, and pathophysiology of the cardiovascular system. Focus will be on cardiac and vascular structural anatomy, relationships, electrical innervation, embryology, and hemodynamics of the heart and vascular system. Pathophysiology concepts are also covered including the etiology, pathology, signs and symptoms, risk factors, and treatment of cardiovascular disease. (3 lecture and 1 lab hours per week). **[CIP51.0910]**

DSAE 2304
Echocardiographic Evaluation of Pathology I (Echo II)
(3 credits)
The purpose of this course is to emphasize the methods for evaluating adult acquired cardiac pathologies. Topics may include cardiovascular pathophysiology, quantitative measurements, and the application of 2D, Mmode, and Doppler to evaluate for abnormalities. Emphasis will be placed on valvular heart disease, endocarditis, ischemic heart disease, systemic and pulmonary hypertension, pericardial disease, and cardiomyopathy. (2 lecture and 4 lab hours per week) Prerequisite: DSAE 1303 Corequisite: DSAE 2361. **[CIP51.0910]**

DSAE 2335
Advanced Echocardiography
(3 credits)
This course will cover topics in the ever-changing world of diagnostic cardiac sonography. Potential topics may include transesophageal echo, stress echo, 3D echo, tissue and doppler harmonics, power doppler, tissue doppler, digital echo, contrast echo, intra-operative and intra-cardiac echo. Students will attend conferences and local society meetings as well as review current journals and prepare for the registry examination. (2 lecture and 4 lab hours per week) Prerequisite: DSAE 2337 Corequisite: DSAE 2365. **[CIP51.0910]**

DSAE 2337
Echocardiographic Evaluation of Pathology II (Echo III)
(3 credits)
This course is a continuation of Echocardiographic Evaluation of Pathology I with emphasis on cardiac disease. Topics may include congenital heart disease, diseases of the aorta and great vessels, cardiac missiles, masses, and myxomas, arrhythmias' effect on echo findings and other syndromes and diseases relevant to echocardiography with continued emphasis on quantitative measurements and calculations used during 2D, Mmode, and doppler to evaluate for these diseases. (2 lecture and 4 lab hours per week) Prerequisite: DSAE 2304, Corequisite: DSAE 2461. **[CIP51.09103**

DSAE 2361
Clinical – DMST, Echocardiography I
(3 credits)
The purpose of this course is to provide education, training, work-based experience and direct patient care, generally at a clinical site. This will include instruction, supervision, and evaluation of students in the field of echocardiography. Emphasis will be on gaining hands-on experience to develop scanning ability for the evaluation of the normal adult echocardiogram utilizing a standard scan protocol. (12 clinical hours per week) Prerequisite: DSAE 1360, Corequisite: DSAE 2304
[CIP51.0910]

DSAE 2461
Clinical – DMST, Echocardiography II
(4 credits)
This course is to provide additional clinical education, training, experience, and direct patient care. It will include instruction, supervision and evaluation of students in the field of echocardiography. Emphasis will be on broadening and improving existing skills, recognition, evaluation and measurements of acquired heart disease. (24 clinical hours per week) Prerequisite: DSAE 2361, Corequisite: DSAE 2437 **[CIP51.0910]**

DSAE 2462
Clinical-DMST, Echocardiography III
(4 credits)
This course will provide advanced clinical education, training, experience, and patient care. It will include instruction, supervision, and evaluation of students in the field of echocardiography. Emphasis will be placed on recognition and quantification of pathology, improving accuracy, speed and proficiency of the student's skills. (24 clinical hours per week) Prerequisite: DSAE 2461, Corequisite: DSAE 2335 **[CIP51.0910]**

DSPE 1265
Practicum - DMST, Intro to Pedi Echo
(2 Credits)
Practical general workplace training supported by an individualized learning plan developed by the employer, college, and student. Corequisite: DSPE 1300. (18 clinical hours per week) **[CIP51.0910]**

DSPE 1300
Introduction to Pediatric Echocardiography Techniques
(3 Credits)
The purpose of this course is to introduce pediatric echocardiography scanning techniques and procedures with hands-on experience in the lab setting. Emphasis will be placed on the sonographic explanation of the neonatal/pediatric heart by performing a basic scan protocol to include two-dimensional, M-Mode, Doppler, and standard measurements. Topics will also include segmental approach to congenital heart disease, situs determination, recognition of septation defects and physiology of persistent fetal circulation. (2 lecture and 4 lab hours per week) Prerequisite: acceptance into program Corequisite: DSPE 1265. **[CIP51.0910]**

DSPE 2249
Echocardiographic Evaluation of Congenital Heart Disease II
(2 Credits)
This course is a continuation of Echocardiographic Evaluation of Congenital Heart Disease I. Topics will include anomalies of the following: great vessels, ventricles (ie: hypoplasia), and extra cardiac structures. In addition, echo evaluation of post operative repairs and defects shall be included with continued emphasis on quantitative measurements and calculations used during 2D, M-Mode, and Doppler. (1 lecture and 4 lab hours per week) Prerequisite: DSPE 2257, Corequisite DSPE 2364 **[CIP51.0910]**

DSPE 2255
Neonatal/Pediatric Patient Care Skills
(2 Credits)
This course presents an overview of neonatal and pediatric patient care concepts. Topics in this course may include age appropriate care, patient safety, infection control, patient monitoring, vital signs, assessment, physical exam, thermal regulation, sedation, CPR, PALS, and NRP. (1 lecture and 3 lab hours per week) **[CIP 51.0910]**

DSPE 2257
Echocardiographic Evaluation of Congenital Heart Disease I
(2 Credits)
The purpose of this course is to emphasize the methods for evaluating congenital heart disease. Topics may include physiology, hemodynamics, and anomalies of each of the following: the aorta, arch, aortic valve, tetralogy of Fallot, pulmoinc valve (atresia), tricuspid valve (Ebstein's), and pulmonary veins. The evaluation will include pathophysiology, quantitative measurements, and the application of echo techniques to identify and quantify these anomalies. (1 lecture and 4 lab hours per week) Prerequisite: DSPE 1300, Corequisite DSPE 2261 **[CIP51.0910]**

DSPE 2259
Advanced Pediatric Echocardiography
(2 Credits)
This course will cover topics in specialized techniques in pediatric echocardiography. Topics will include transesophageal echocardiography and fetal echocardiography. The course will also focus on acquired cardiac pathology and additional rare anomalies. (1 lecture and 4 lab hours per week) Prerequisite DSPE 2249, Corequisite DSPE 2365 **[CIP51.0910]**

DSPE 2261
Clinical-DMST,Pediatric Echo I
(2 Credits)
The purpose of this course is to provide education, training, work-based experience and direct patient care, generally at a clinical site. This will include instruction, supervision, and evaluation of students in the field of pediatric echocardiography. Emphasis will be on gaining hands-on experience to develop scanning ability for the evaluation of the abnormal pediatric echocardiogram utilizing a standard scan protocol. (12 clinical hours per week) Prerequisite: DSPE 1265, Corequisite DSPE 2257 **[CIP51.0910]**

DSPE 2461
Practicum - DMST, Pedi Echo II
(4 Credits)
The purpose of this course is to provide additional clinical education, training, experience, and direct patient care. It will include instruction, supervision and evaluation of students in the field of pediatric echocardiography. Emphasis will be on broadening and improving existing skills, recognition, evaluation, and quantification of congenital heart disease. (24 clinical hours per week) **[CIP51.0910]**

DSPE 2462
Clinical - DMST, Pediatric Echo III
(4 credits)
This course will provide advanced clinical education, training, experience, and patient care. It will include instruction, supervision, and evaluation of students in the field of pediatric echocardiography. Emphasis will be placed on recognition and quantification of pathology, improving accuracy, speed and proficiency of the students' skills. (24 clinical hours per week). **[CIP51.0910]**

DSVT 1300
Principles of Vascular Technology (Vasc I)
(3 credits)
The purpose of this course is to introduce non-invasive vascular technology modalities including two-dimensional imaging, duplex, doppler, plethysmography, and segmental pressures. Emphasis will be on performing basic exam protocols for carotid duplex, arterial duplex and non-imaging, and venous duplex along with basic measurements and features of the normal exam. (2 lecture and 4 lab hours per week) Corequisite: DSVT 1360, **[CIP51.0910]**

DSVT 1360
Clinical – DMST, Introduction to Vascular
(3 credits)
This is an introductory clinical for learning basic non-invasive vascular techniques. Students will observe, assist, and begin to gain hands-on experience in clinical. Emphasis will be on instrumentation, patient positioning, transducer handling, image orientation, and identification of anatomic structures and waveforms. (18 clinical hours per week) Corequisite: DSVT 1300. **[CIP51.0910]**

DSVT 2318
Peripheral Vascular Evaluation of Pathology
(3 credits)
This course is an integration of basic concepts and application of prior knowledge and skills to the understanding and evaluation of peripheral vascular diseases utilizing non-invasive vascular techniques. Emphasis will be placed on venous and arterial diseases of the extremities. (2 lecture and 4 lab hours per week) Prerequisite: DSVT 2330. Corequisite: DSVT 2364. **[CIP51.0910]**

DSVT 2330
Cerebral Vascular Evaluation of Pathology
(3 credits)
This course is a continuation of Vascular Evaluation with emphasis on recognition, evaluation and quantification of cerebrovascular diseases and interventions utilizing duplex ultrasonography, transcranial doppler, and non-imaging techniques used to evaluate the cerebrovascular circulation. (2 lecture and 4 lab hours per week) Prerequisite: DSVT 1300, Corequisite: DSVT 2361. **[CIP51.0910]**

DSVT 2335
Advanced Non-Invasive Vascular Technology
(3 credits)
This course will cover advances in the ever changing world of diagnostic medical sonography specifically, peripheral non-invasive vascular technology. Possible topics may include intravascular ultrasound, transcranial imaging, 3D, power doppler, intra-operative, and abdominal vascular concepts. Students will attend conferences and local society meetings as well as review current journals and prepare to take the registry examination. (2 lecture and 4 lab hours per week) Prerequisite: DSVT 2318 Corequisite: DSVT 2365. **[CIP51.0910]**

DSVT 2361
Clinical – DMST, Vascular Sonography I
(3 credits)
The purpose of this course is to provide education, training, work-based experience, and direct patient care, generally at a clinical site. This will include instruction, supervision, and evaluation of students in the field of non-invasive vascular technology. Emphasis will be placed on hands-on experience to develop peripheral non-invasive vascular techniques used to evaluate the appearance of normal exams utilizing a standard scan protocol. (12 clinical hours per week) Prerequisite: DSVT 1360, Corequisite: DSVT 2330. **[CIP51.0910]**

DSVT 2461
Clinical - DMST, Vascular Sonography II
(4 credits)
This course will provide additional clinical education, training, experience, and direct patient care. It will include instruction, supervision, and evaluation of students in the field of peripheral non-invasive vascular technology. Emphasis will be placed on recognition and evaluation of pathology, broadening and improving existing skills. (24 clinical hours per week). Prerequisite DSVT 2361; Corequisite: DSVT 2318. **[CIP51.0910]**

DSVT 2462
Practicum - DMST, Vascular Sonography III
(4 credits)
This course will provide advanced clinical education, training, experience, and patient care. It will include instruction, supervision, and evaluation of students in the field of non-invasive vascular technology. Emphasis will be placed on improving identification and quantification of pathology, accuracy, speed and proficiency of student's skills. (24 clinical hours per week). Prerequisite DSVT 2461; Corequisite: DSVT 2335. **[CIP51.0910]**

HPRS 1304
Basic Health Profession Skills
(3 credits)
A study of the concepts that serve as the foundation for health profession courses, including client care and safety issues, basic client monitoring, and health documentation methods. (2 lecture and 3 lab hours per week). **[CIP51.0000]**

Drama

C. Jay Burton, Department Chairperson

DRAM 1120, 1220
Theatre Practicum I
(1, 2 credits)
This course is an activities course in which the student participates in theater productions either as an actor or crew member. (4 or 6 lab hours per week). **[CB50.0506.5326]**

DRAM 1121, 1221
Theatre Practicum II
(1, 2 credits)
This course is an activities course in which the student participates in theater productions either as an actor or crew member. (4 or 6 lab hours per week). **[CB50.0506.5326]**

DRAM 1310
Introduction to Theater
(3 credits)
This course is the study of the principles of drama and the development of the Theater as an art as evidenced through study of areas of productions past and present. (3 lecture and 2 lab hours per week). Prerequisite: DIRW/DIRR 0309 or READ 0309. **[CB50.0501.5126]**

DRAM 1330
Stagecraft I
(3 credits)
This course is a study of the basics for working in the areas of construction, properties, and sets. (2 lecture and 4 lab hours per week). Prerequisite: DIRW/DIRR 0309 or READ 0309. **[CB50.0502.5126]**

DRAM 1341
Stage Makeup
(3 credits)
This course provides a survey of the reasons for stage makeup and the types of makeup available. It includes principles for defining makeup for characters in a play and intensive practical application. (2 lecture and 4 lab hours per week). Prerequisite: DIRW/DIRR 0309 or READ 0309. **[CB50.0502.5226]**

DRAM 1351
Acting I
(3 credits)
This course is a study of the basic techniques of acting. Included in the course are relaxation, concentration, objectives and intentions, scene work, and improvisional acting. (2 lecture and 4 lab hours per week). Prerequisites: DIRW/DIRR 0309 or READ 0309. **[CB50.0506.5126]**

DRAM 1352
Acting II
(3 credits)
This course is a study of script analysis, character analysis, characterization, and situation. (2 lecture and 4 lab hours per week). **[CB50.0506.5126]**

DRAM 2120
Theatre Practicum III
(1 credit)
This course is an activities course in which the student participates in Theater productions either as actor or crew member. (6 lab hours per week). **[CB50.0506.5326]**

DRAM 2121
Theatre Practicum IV
(1 credits)
This course is an activities course in which the student participates in Theater productions either as actor or crew member. (6 lab hours per week). **[CB50.0506.5326]**

DRAM 2331
Stagecraft II
(3 credits)
This course is a study of the basic concepts of stage lighting, including principles and practice. The course also presents the basic principles of lighting design. (3 lecture and 3 lab hours per week). Prerequisite: DIRW/DIRR 0309 or READ 0309. **[CB50.0502.5126]**

DRAM 2336
Voice for the Theatre
(3 credits)
This course is a study of the necessary development of the voice for use for the stage. The course includes voice development, placement, projection, and diction. (3 lecture hours per week). Prerequisite: DIRW/DIRR 0309 or READ 0309. **[CB50.0506.5226]**

DRAM 2361
History of the Theatre I
(3 credits)
This course is an historical investigation of the theatre and dramatic literature from ancient Greece through 1800. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0309 or ENGL 0309 & READ 0309. **[CB50.0505.5126]**

DRAM 2362
History of the Theatre II
(3 credits)
This course is an historical investigation of the theatre and dramatic literature from 1800 to the present. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0309 or ENGL 0309 & READ 0309. **[CB50.0505.5126]**

DRAM 2366
Development of the Motion Picture
(3 credits)
Emphasis in this course is on the analysis of the visual and aural aspects of selected motion pictures. Dramatic aspects of narrative firms, historical growth, and sociological impact of film as an art will also be studied. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0309 or READ 0309 **[CB50.0602.5126]**

DRAM 2367
Development of the Motion Picture II
(3 credits)
This course will provide the opportunity for students to continue their study of narrative film as an art form. In this is a project-oriented course students will develop their cinematic ideas in a practical fashion. Emphasis will be on storytelling, including the communication of ideas and emotion, using live-action film and video. (3 lecture hours per week).
Prerequisites: DRAM 2366. **[CB50.0602.5126]**

Economics

Elizabeth McLane, Department Chairperson
Kevin Jefferies, Tim Reynolds, Gregory Roof

ECON 2301
Principles of Economics I
(3 credits)
An introduction to the macro-economics of a modern industrial society. This course is an analysis of economic aggregates: inflation, unemployment, economic growth, and the distribution of income (including current policies and problems). The course presents problems of fiscal and monetary policy and places primary emphasis on critical understanding of the economy's ability to meet the needs of its people participating as workers, consumers, and citizens. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB45.0601.5125]**

ECON 2302
Principles of Economics II
(3 credits)
An introduction to the micro-economics of a modern industrial society. This course provides a study of supply-demand relationships, economics of the firm and resource allocation (price and output determination, pure competition, monopolistic competition, oligopoly, and monopoly), economic problems (business, agriculture, labor, etc.), and international economic relations. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB45.0601.5125]**

Emergency Medical Technology

Douglas Stevenson, Department Chairperson
Patty Stemmer, Instructor
Tracey Antill, DO, FACEP Medical Director

EMSP 1160
Emergency Medical Technician Basic - Clinical
(1 credit)
A course of instruction that provides detailed education, training, and work-based experience in the hospital and ambulance arena. Clinical experiences are unpaid external learning experiences. (6 hours per week external experience). Co-Requisites: American Heart Association or Red Cross CPR certification. Enrollment in EMSP 1501. **[CIP51.0904]**

EMSP 1166
EMS Practicum I
(1 credit)
A course of instruction that provides detailed education, training, and work-based experience in various ambulance services. All EMS practicum experiences are unpaid external learning experiences. (7 hours per week external experience). Prerequisite: Completion of EMSP 1501/ EMSP 1160. Co-Requisite: Enrollment in EMSP 1338, EMSP 1355, EMSP 1356, EMSP 1261. **[CIP51.0904]**

EMSP 1261
Paramedic Clinical I
(2 credits)
A course of instruction that provides detailed education, training, and work-based experience in the hospital clinical areas. Clinical experiences are unpaid external learning experiences. (1 lecture hours & 6 lab hours per week) Prerequisite: Completion of EMSP 1501/ EMSP 1160. Co-Requisite: Enrollment in EMSP 1338, EMSP 1356, EMSP 1355, EMSP 1166. **[CIP51.0904]**

EMSP 1338
Introduction to Advanced Practice
(3 credits)
An exploration of the foundations necessary for mastery of the advanced topics or prehospital care. (3 hours of lecture and 1 hour of lab hours per week). Prerequisite: Completion of EMSP 1501/ EMSP 1160. Co-Requisite: Enrollment in EMSP 1356, EMSP 1355, EMSP 1261, EMSP 1166. **[CIP51.0904]**

EMSP 1355
Trauma Management
(3 credits)
A detailed study of the knowledge and skills necessary to reach competence in the assessment and management of patients with traumatic injuries. (2 hours of lecture and 3 hour of lab per week). Prerequisite: Completion of EMSP 1501, & 1160. Co-Requisite: Enrollment in EMSP 1338, 1356, 1261, & 1166. **[CIP51.0904]**

EMSP 1356
Patient Assessment and Airway Management
(3 credits)
A detailed study of the knowledge and skills required to reach competency in performing patient assessment and airway management. (2 hours of lecture and 2 hours of lab per week). Prerequisite: Completion of EMSP 1501/ EMSP 1160. Co-Requisite: Enrollment in EMSP 1338, EMSP 1355, EMSP 1261, EMSP 1166. **[CIP51.0904]**

EMSP 1391
Special Topics in EMS
(3 credits)
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. (2 hours lecture, and 2 hours lab per week). **[CIP51.0904]**
EMSP 1501

Emegency Medical Technician - Basic
(5 credits)
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 service. (5 lecture and 6 lab hours per week). Co-Requisites: American Heart Association or Red Cross CPR certification. Enrollment in EMSP 1160. **[CIP51.0904]**

EMSP 2160
Paramedic Clinical II
(1 credit)
A course of instruction that provides detailed education, training, and work-based experience in the hospital emphasizing cardiovascular care. Clinical experiences are unpaid external learning experiences. (6 hours per week external experience). Prerequisite: Completion of EMSP 1501/ EMSP 1160/ EMSP 1338/ EMSP 1356/ EMSP 1355/ EMSP 1261/ EMSP 1166. Co-Requisite: Enrollment in EMSP 2248, EMSP 2338, EMSP 2444. **[CIP51.0904]**

EMSP 2166
Paramedic Practicum II
(1 credit)
A course of instruction that provides detailed education, training, and work-based experience in the pre-hospital area. Clinical experiences are unpaid external learning experiences. (9 hours per week external experience). Prerequisite: Completion of EMSP 1501/ EMSP 1160/ EMSP 1338/ EMSP 1356/ EMSP 1355/ EMSP 1261/ EMSP 1166/ EMSP 2444/ EMSP 2248/ EMSP2338/ EMSP 2160/ EMSP 2434/ EMSP 2261. Co-Requisite: Enrollment in EMSP 2330/ EMSP 2243. **[CIP51.0904]**

EMSP 2243
Assessment Based Management
(2 credits)
The capstone course of the EMSP program. Designed to provide for teaching and evaluating comprehensive, assessment-based patient care management. (1 hour of lecture and 3 hours of lab per week). Prerequisite: Completion of EMSP 1501, 1160, 1338, 1356, 1355, 1261, 1166, 2444, 2248, 2338, 2160, 2434, 2261. Co-Requisite: Enrollment in EMSP 2330 & 2166. **[CIP51.0904]**

EMSP 2248
Emergency Pharmacology
(2 credits)
A comprehensive course covering all aspects of the utilization of medications in treating emergency situations. Course is designed to complement Cardiology, Special Populations, and Medical Emergency courses. (2 hours of lecture hours and 1 hour of lab per week). Prerequisite: Completion of EMSP 1501/ EMSP 1160/ EMSP 1338/ EMSP 1356/ EMSP 1355/EMSP 1261/ EMSP 1166. Co-Requisite: Enrollment in EMSP 2444, EMSP 2338, EMSP 2160. **[CIP51.0904]**

EMSP 2261
Paramedic Clinical III
(2 credits)
A course of instruction that provides detailed education, training, and work-based experience in the hospital areas specializing in the care of patients with medical emergencies.. Clinical experiences are unpaid external learning experiences. (1 lecture hour & 8 clinical hours per week) Prerequisite: Completion of EMSP 1501/ EMSP 1160/ EMSP 1338/ EMSP 1356/ EMSP 1355/ EMSP 1261/ EMSP 1166/ EMSP 2444/ EMSP 2248/ EMSP2338/ EMSP 2160. Co-Requisite: Enrollment in EMSP 2434. **[CIP51.0904]**

EMSP 2300
Methods of Teaching - Emergency Medical Services
(3 credits)
Instruction in teaching methodology for instructors of emergency medical services. (3 hours of lecture per week). Sponsorship by a Texas State Department of Health Services EMS Coordinator required. **[CIP51.0904]**

EMSP 2330
Special Populations
(3 credits)
A detailed study of the knowledge and skills necessary to reach competence in the assessment and management of ill or injured patients in non-traditional populations. (2 hours of lecture and 2 hours of lab per week). Prerequisite: Completion of EMSP 1501/ EMSP 1160/ EMSP 1338/ EMSP 1356/ EMSP 1355/EMSP 1261/ EMSP 1166/ EMSP 2444/ EMSP 2248/ EMSP 2338/EMSP 2160/ EMSP 2434/ EMSP 2261. Co-Requisite: EMSP 2243/ EMSP 2166. **[CIP51.0904]**

EMSP 2338
EMS Operations
(3 credits)
A detailed study of the knowledge and skills necessary to reach competence to safely manage the scene of an emergency. (3 hours of lecture per week). Prerequisite: Completion of EMSP 1501/ EMSP 1160/ EMSP 1338/ EMSP 1356/ EMSP 1355/ EMSP 1261/ EMSP 1166. Co-Requisite: EMSP 2444, EMSP 2248, EMSP 2160. **[CIP51.0904]**

EMSP 2352
EMS Research
(3 credits)
Primary and/or secondary research in current and emerging issues in EMS. Basic research principles, scientific inquiry, and interpretation of professional literature are emphasized. (3 hours of lecture per week). **[CIP51.0904]**

EMSP 2359
EMS Supervision/ Management
(3 credits)
Instruction, literary review, group discussions, and case study on topics pertinent to the emergency medical service (EMS) supervisor or manager. (3 lecture and 1 lab hour per week). **[CIP51.0904]**

EMSP 2434
Medical Emergencies
(4 credits)
A detailed study of the knowledge and skills necessary to reach competence in the assessment and management of patients with medical emergencies. (3 hours of lecture and 3 hours of lab per week). Prerequisite: Completion of EMSP 1501/ EMSP 1160/ EMSP 1338/ EMSP 1356/ EMSP 1355/ EMSP 1261/ EMSP 1166/ EMSP 2444/ EMSP 2248/ EMSP2338/ EMSP 2160. Co-Requisite: Enrollment in EMSP 2261 **[CIP51.0904]**

EMSP 2444
Cardiology
(4 credits)
A detailed study of the knowledge and skills necessary to reach competence in the assessment and management of patients with cardiac emergencies. (3 hours of lecture and 3 hours of lab and per week). Prerequisite: Completion of EMSP 1501/ EMSP 1160/ EMSP 1338/ EMSP 1356/ EMSP 1355/ EMSP 1261/ EMSP 1166. Co-Requisite: EMSP 2248, EMSP 2338, EMSP 2160. **[CIP51.0904]**

EMSP 2458
Critical Care Paramedic
(4 credits)
Prepares healthcare personnel to function as members of a critical care transport team.
(lecture and 6 lab hours per week).. Prerequisite: Completion of EMSP 1501/ EMSP 1160/ EMSP 1338/ EMSP 1356/ EMSP 1355/ EMSP 1261/ EMSP 1166/ EMSP 2444/ EMSP 2248/ EMSP2338/ EMSP 2160/ EMSP 2434/ EMSP 2261/ EMSP 2330/ EMSP 2243/ EMSP 2166 Or current Texas State Department of Health Services Paramedic certification or Paramedic Licensure. **[CIP51.0904]**

HITT 1305
Medical Terminology I
(3 credits)
Study of word origin and structure through the introduction of prefixes, suffixes, root words, plurals, abbreviations and symbols, surgical procedures, medical specialties, and diagnostic procedures. (3 lecture hours per week). **[CIP51.0707]**

English

Thomas Parker, Department Chairperson
Charley Bevill, Margaret Ellen Birdwell,
Bea Hugetz, Linda Matteson, Leigh Ann Moore,
Haley Collins, Keith Vyvial

***NOTE:** Developmental English classes are now listed under Academic Foundations.*

ENGL 1301
Composition I
(3 credits)
Intensive study of and practice in writing process, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis. (3 lecture hours per week). Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310 or passing score on THEA or equivalent test. **[CB23.1301.5112]**

ENGL 1302
Composition II
(3 credits)
Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of sources; and critical thinking about evidence and conclusions. (3 lecture hours per week). Prerequisite: ENGL 1301 or its equivalent. **[CB23.1301.5112]**

NOTE: To fulfill the sophomore English requirements of ACC programs of study, the English Department recommends either ENGL 2332-2333 or 2322-2323, taken in sequence. However, a combination of one course from Group A and one from Group B, taken in any order, is acceptable. Group A: 2332 or 2322. Group B: 2333 or 2323 or 2327 or 2328 Under appropriate circumstances, ENGL 2311 may be allowed as one of the two required sophomore courses.

ENGL 2307
Creative Writing
(3 credits)
Designed for students interested in writing poetry, fiction, or nonfiction, this humanities elective course presents a study of literary techniques in contemporary published examples, but it emphasizes writing and revising original works. (3 lecture hours per week). Prerequisite: ENGL 1302. **[CB23.1302.5112]**

ENGL 2311
Technical Communication
(3 credits)
Designed primarily for students working toward a four-year science or technology degree, this course stresses accurate and effective writing in formal reports and other professional communication forms. Brief attention is also given to the oral report. (3 lecture hours per week). Prerequisite: ENGL 1301 **[CB23.1303.5112]**

ENGL 2322
Survey of English Literature I
(3 credits)
This course covers British literature from its beginning to the eighteenth century. Collateral reading and reports are required. (3 lecture hours per week). Prerequisite: ENGL 1302. **[CB23.1404.5112]**

ENGL 2323
Survey of English Literature II
(3 credits)
As a continuation of ENGL 2322, this course is a study of British literature from the Romantic Period to the present. Collateral reading and reports are required. (3 lecture hours per week). Prerequisite: ENGL 1302. **[CB23.1404.5112]**

ENGL 2327
Survey of American Literature I
(3 credits)
Selected significant works of American Literature from the pre-colonial era through 1865. (3 lecture hours per week) Prerequisite: ENGL 1302 **[CB 23.1402.5112]**

ENGL 2328
Survey of American Literature II
(3 credits)
Selected significant works of American Literature from 1865 to the present. (3 lecture hours per week) Prerequisite: ENGL 1302 **[CB 23.1402.5112]**

ENGL 2332
Survey of Literature I
(3 credits)
Readings in world masterpieces dating from ancient times to the eighteenth century provide topics for various kinds of written analysis. Collateral reading and reports are required. (3 lecture hours per week). Prerequisite: ENGL 1302. **[CB16.0104.5213]**

ENGL 2333
Survey of Literature II
(3 credits)
This course is a continuation of ENGL 2332. World literature ranging from seventeenth-century Europe to twentieth-century America is the subject area of reading and writing assignments. Collateral reading and reports are required. (3 lecture hours per week). Prerequisite: ENGL 1302. **[CB16.0104.5213]**

French

NOTE: Students cannot enroll in any Language Program (Second Language or Heritage Language) if they have not taken the Foreign Language Placement Exam required in each track. Failure to comply with this requirement may result in being dropped from the class. Based on performance on the placement exam, students may be placed in FREN 1412, 2311, or 2312, and may earn up to 11 credit hours.

FREN 1411
Beginning French I
(4 credits)
This course provides fundamental skills in listening comprehension, speaking, reading, and writing. It includes basic vocabulary, grammatical structures, and culture. Prerequisite: Placement Exam within a semester prior to enrollment. (3 lecture and 2 lab hours per week). **[CB16.0901.5113]**

FREN 1412
Beginning French II
(4 credits)
This course provides fundamental skills in listening comprehension, speaking, reading, and writing. It includes basic vocabulary, grammatical structures, and culture. Prerequisite: Successful completion of FREN 1411 with a minimum grade of C in the 12 months prior to enrollment or by Placement Exam immediately prior to enrollment. (3 lecture and 2 lab hours per week). **[CB 16.0901.5113]**

FREN 2311
Intermediate French I
(3 credits)
This course provides a review and application of skills in listening comprehension, speaking, reading, and writing. It emphasizes conversation, vocabulary acquisition, reading, composition, and culture. Prerequisite: Successful completion of FREN 1412 with a minimum grade of C in the 12 months prior to enrollment or by Placement Exam immediately prior to enrollment. (3 lecture and 1 lab hour per week) **[CB16.0901.5213]**

FREN 2312
Intermediate French II
(3 credits)
This course provides a review and application of skills in listening comprehension, speaking, reading, and writing. It emphasizes conversation, vocabulary acquisition, reading, composition, and culture. Prerequisite: Successful completion of FREN 2311 with a minimum grade of C in the 12 months prior to enrollment or by Placement Exam immediately prior to enrollment. (3 lecture and 1 lab hour per week) **[CB16.0901.5213]**

Geography

Christopher Chance, Department Chairperson
Johanna Hume

GEOG 1301
Physical Geography
(3 credits)
This course is designed to enhance student understanding of the physical and human elements that have shaped the present physical environments and cultures of the world. Emphasis is placed on scientific principles and explanations underlying the distribution of tectonic activities and landforms, elements and factors of local and world climates, population, economic activities, cultures, urban landscapes, and political systems. The important role of maps in geography is also discussed. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB45.0701.5125]**

GEOG 1302
Cultural Geography
(3 credits)
Introduction to the concepts which provide a foundation for continued study of geography. Includes the different elements of natural environment as related to human activities, modes of living, and map concepts. The semester emphasizes cultural geography. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP 45.0701.5125]**

GEOG 1303
World Regional Geography
(3 credits)
A survey of the world's major geographic regions, with emphasis on intra-regional and inter-regional similarities and differences in climates, land and water resources, population distribution, and the extent of resource utilization. Physical and human factors that enhance, hinder, or threaten economic development and living conditions in the respective regions are also stressed. (3 lecture hours per week).Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310 **[CB45.0701.5325]**

GEOG 2389
Academic Cooperative
(3 credits)
An instructional program designed to integrate on-campus study with practical hands-on experience in geography. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of human social behavior and/or social institutions. (3 lecture hours per week) **[45.0101.5125]**

Geology

Dora Devery, Department Chairperson

GEOL 1301
Essentials of Earth Science
(3 credits)
This is a survey course to introduce non-majors to the solid Earth, the oceans, the atmosphere, and the Earth's neighbors in space. (3 lecture hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. **[CB40.0601.5103]**

GEOL 1303
Essentials of Physical Geology
(3 credits)
An introductory class designed for non-majors to study the composition, internal structure, and physical processes of the earth. (3 lecture hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. **[CB40.0601.5403]**

GEOL 1401
Earth Science
(4 credits)
Survey of geology, meteorology, oceanography, and astronomy. The course focuses on the study of the operation of Earth's geologic systems and the interactions among the atmosphere, the geosphere, and the hydrosphere, including meteorology and oceanography. Emphasis is on classifying earth materials, differentiating the types of plate boundaries, measuring atmospheric processes that affect weather and climate, describing the composition and motion of ocean water, as well as comparing properties and motions of objects in the solar system. (3 lecture and 3 lab hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. **[CB40.0601.5103]**

GEOL 1403
Physical Geology
(4 credits)
Introduction to the study of earth materials and processes that have modified and shaped the surface and interior of Earth over time. The course emphasizes identification of minerals and rocks, utilizing topographic maps to identify landforms, differentiating the types of plate boundaries and their associated features, identifying basic structural features on maps, block diagrams and cross sections and inferring how they were created, and describing the interaction of humans with Earth (e.g., resource development or hazard assessment). (3 lecture and 3 lab hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. **[CB40.0601.5403]**

GEOL 1404
Historical Geology
(4 credits)
A comprehensive survey of the history of life and major events in the physical development of Earth as interpreted from rocks and fossils. Topics covered in the course include: palte tectonics, determining sequence of events, and the identification of fossils. Special emphasis is placed on the study of sedimentary rocks and geologic maps. (3 lecture & 3 lab hours per week) Prerequisite: GEOL 1403. **[CB40.0601.5403]**

GEOL 1405
Environmental Science
(4 credits)
A survey of the forces, including humans, that shape our physical and biologic environment, and how they affect life on Earth. Introduction to the science and policy of global and regional environmental issues, including pollution, climate change, and sustainability of land, water, and energy resources. (3 lecture and 3 lab hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. **[CB03.0103.5301]**

GEOL 1445
Oceanography
(4 credits)
This course is an online lab science course (both lecture and lab are offered online). It is designed to introduce students to the physical, geological, and chemical characteristics of the Earth's oceans. Topics covered include: plate tectonics and ocean basin formation, topographic features of the ocean floors, properties of ocean water, as well as tides, waves, and ocean currents. This course also looks at the interaction between marine organisms and the marine environment as well as the interaction between land and sea and the interaction between the atmosphere and the sea. (3 lecture & 3 lab hours per week) Prerequisite: DIRW/DIRR 0310 or READ 0310, and MATH 0311 or 0312. **[CB40.0601.5103]**

GEOL 1447
Meteorology
(4 credits)
The study of the atmosphere and weather are the focus of this online, lab science course (both lecture and lab are offered online). Topics include: composition and structure of the atmosphere, solar and terrestrial radiation, air pressure, humidity, clouds, precipitation, thunderstorms, tornadoes, hurricanes, and climate change. (3 lecture & 3 lab hours per week) Prerequisite: DIRW/DIRR 0310 or READ 0310, and MATH 0311 or 0312. **[CB40.0601.5103]**

German

NOTE: Students cannot enroll in any Language Program (Second Language or Heritage Language) if they have not taken the Foreign Language Placement Exam Exam required in each track. Failure to comply with this requirement may result in being dropped from the class. Based on performance on the placement exam, students may be placed in GERM 1412, 2311 or 2312, and may earn up to 11 credit hours in German.

GERM 1411
Elementary German I
(4 credits)
This course provides fundamental skills in listening comprehension, speaking, reading, and writing. It includes basic vocabulary, grammatical structures, and culture. Prerequisite: Placement Exam within a semester prior to enrollment. (3 lecture and 2 lab hours per week) **[CB16.0501.5113]**

GERM 1412
Elementary German II
(4 credits)
This course provides fundamental skills in listening comprehension, speaking, reading, and writing. It includes basic vocabulary, grammatical structures, and culture. Prerequisite: Successful completion of GERM 1411 with a minimum grade of C in the 12 months prior to enrollment or by Placement Exam immediately prior to enrollment. (3 lecture and 2 lab hours per week) **[CB16.0501.5113]**

GERM 2311
Intermediate German I
(3 credits)
This course provides a review and application of skills in listening comprehension, speaking, reading, and writing. It emphasizes conversation, vocabulary acquisition, reading, composition, and culture. Prerequisite: Successful completion of GERM 1412 with a minimum grade of C in the 12 months prior to enrollment or by Placement Exam immediately prior to enrollment. (3 lecture and 1 lab hour per week) **[CB 16.0501.5213]**

GERM 2312
Intermediate German II
(3 credits)
This course provides a review and application of skills in listening comprehension, speaking, reading, and writing. It emphasizes conversation, vocabulary acquisition, reading, composition, and culture. Prerequisite: Successful completion of GERM 2311 with a minimum grade of C in the 12 months prior to enrollment or by Placement Exam immediately prior to enrollment. (3 lecture and 1 lab hour per week) **[CB16.0501.5213]**

Government

Elizabeth McLane, Department Chairperson
Kevin Jefferies, Tim Reynolds, Gregory Roof

GOVT 2305
American Government
(3 credits)
This course is an introduction to American government. The course includes a discussion of the origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties, and civil rights. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP 45.1002.5125]**

GOVT 2306
Texas State & Local Government
(3 credits)
This course is an introduction to Texas state and local government. The course includes discussion of the origin and development of the Texas Constitution, structure and powers of state and local government, federalism and inter-governmental relations, political participation, the election process, public policy, and the political culture of Texas. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP 45.1002.5125]**

History

Christopher Chance, Department Chairperson
John Duke, Johanna Hume, Marjorie Nash

HIST 1301
The United States to 1877
(3 credits)
This course surveys United States history from colonial origins through reconstruction, including exploration and colonization of the new world, the American Revolution, westward expansion, the Civil War, and reconstruction. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB 54.0102.5125]**

HIST 1302
The United States Since 1877
(3 credits)
This course surveys United States history from 1877 to the present. Topics include big business, big labor, the United States as a world power, the Great Depression, and the Cold War. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB 54.0102.5125]**

HIST 2301
Texas History
(3 credits)
This course surveys social, economic and political developments in Texas from the arrival of the first Native Americans in Texas to present. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB 54.0102.5225]**
**Texas law stipulates that three hours in Texas history may be applied toward satisfying the United States history requirement.*

HIST 2311
Western Civilization I
(3 credits)
This course surveys the primary political, social, intellectual, and religious developments of near eastern and western human societies with emphasis on the Mesopotamian, Egyptian, Greek, and Roman civilizations; the development of Judaism, Christianity, and Islam; the Byzantine empire; feudalism in eastern and western Europe; the Renaissance and the Reformation; national monarchies and state building in the early modern period; and the Scientific Revolution. Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. (3 lecture hours per week) **[CB 54.0101.5425]**

HIST 2312
Western Civilization II
(3 credits)
This course surveys the primary political, social, intellectual, and religious developments in western human societies from the 17th century to the 20th century. Particular emphasis will be placed on the trans-Atlantic world, absolutism and state building, the Enlightenment, the period of revolutions, ideology, the rise of nation-states, and the wars of the 20th century. DIRW/DIRR 0310 or ENGL 0310 & READ 0310. (3 lecture hours per week) **[CB 54.0101.5425]**

HIST 2321
World Civilizations I
(3 credits)
A survey of the political, social, cultural, intellectual, diplomatic, technological, and economic development of civilizations in Africa, Asia, Europe and the New World to 1500. Particular attention is given to intersections between cultures along with a comparative analysis of their unique historical trajectories. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310 **[CB54.0101.5325]**

HIST 2322
World Civilizations II
(3 credits)
A survey of the political, social, cultural, intellectual, diplomatic, technological, and economic development of civilizations in Africa, Asia, Europe and the New World from the 16th to the 20th centuries. Particular emphasis is placed on the rise of the nation-state and the West as a hegemonic power and its impact on the balance of civilization. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB 54.0101.5325]**

HIST 2327
Mexican-American History I
(3 credits)
This course presents a survey of the historical, economic, and cultural development of Mexican-Americans/Chicanos/as to 1918. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310 **[CB 05.0203.5225]**

HIST 2328
Mexican-American History II
(3 credits)
This course presents a survey of the historical, economic, and cultural development of Mexican-Americans/Chicanos/as from 1900 to the present. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310 **[CB 05.0203.5225]**

HIST 2381
African American History
(3 credits)
This course presents a survey of the historical, economic, and cultural development of minority groups in America. The course may include African-American, Asian-American, and Native-American issues. Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310 **[CB 45.1101.5325]**

HIST 2389
Academic Cooperative
(3 credits)
An instructional program designed to integrate on-campus study with practical hands-on experience in history. (3 lecture hours per week)
[CB 45.0101.5125]

Horticulture

Dwight Rhodes, Department Chairperson

HORT 1401
Principles of Horticulture
(4 credits)
This course presents the fundamental principles and practices of structure, growth, development, maintenance, and use of horticultural plants. The course outlines the commercial horticulture industry and occupational opportunities. The lab experience provides an introduction to growing, grounds maintenance, planting, and transplanting. (3 lecture and 3 lab hours per week). **[CB 01.0601.5101]**

Humanities

HUMA 1301
Introduction to Humanities I
(3 credits)
This stand-alone course is an interdisciplinary survey of cultures focusing on the philosophical and aesthetic factors in human values with an emphasis on the historical development of the individual and society, and the need to create. This course explores the Ancient world through the Middle Ages. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB 24.0103.5112]**

HUMA1302
Introduction to Humanities II
(3 credits)
This stand-alone course is an interdisciplinary survey of cultures focusing on the philosophical and aesthetic factors in human values with an emphasis on the historical development of the individual and society, and the need to create. This course explores the Renaissance through the twentieth century. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB24.0103.5112]**

HUMA 1305
Introduction to Mexican-American Studies
(3 credits)
This interdisciplinary survey examines the different cultural, artistic, economic, historical, political, and social aspects of the Mexican-American/Chicano/a communities. It also covers issues such as dispossession, immigration, transnationalism, and other topics that have shaped the Mexican-American experience. (3 lecture hours per week) **[CB 05.0203.5125]**

Human Services - Substance Abuse Counseling

G. E. Carrier, Department Chairperson

CMSW 1341
Behavior Modification and Cognitive Disorder
(3 credits)
In depth study of the theories and principles of behavioral science and skill development in the methods of modifying and controlling behavior. Clinical and personal settings. Emphasis on techniques as managing self behavior. Topics include stimulus controls, shaping, relaxation training, reinforcement scheduling and taken economics. (3 lecture and 3 lab hours per week) **[CIP51.1503]**

DAAC 1304 (see also SOCI 2340)
Pharmacology of Addiction
(3 credits)
Psychological, physiological, and sociological effects of mood altering substances and behaviors and their implications for the addiction process are discussed. Emphasis is placed on pharmacological effects of tolerance, dependency/withdrawal, cross addiction, and drug interaction. (3 lecture hours per week) **[CIP51.1501]**

DAAC 1305
Co-occurring Disorders
(3 credits)
Provides students with an understanding of co-occurring psychiatric and substance abuse disorders and their impact on the individual, family, and community. The course includes an integrated approach to address the issues accompanying the illness.(3 lecture hours per week) **[CIP: 51.1501]**

DAAC 1309
Assessment Skill of Alcohol and Other Drug Addictions
(3 credits)
Examines procedures by which a counselor/program identifies and evaluates an individual's strengths, weaknesses, problems, and needs which will be used in the development of a treatment plan. Prepares the student to appropriately explain assessment results and individual rights to clients. (3 lecture hours per week) **[CIP51.1501]**

DAAC 1311
Counseling Theories
(3 credits)
An introduction to major theories of various treatment modalities including Reality Therapy, Psychodynamic, Grief Therapy, Client Centered Therapy, Rational Emotive Therapy, cognitive-behavioral approaches such as life skills training, behavior modification, and the introduction to experiential therapies as they relate to detoxification, residential, outpatient, and extended treatment. (3 lecture hours per week) **[CIP51.1501]**

DAAC 1317
Basic Counseling Skills
(3 credits)
This course is designed to facilitate development of the basic communication skills necessary to develop an effective helping relationship with clients. Includes the utilization of special skills to assist individuals, families, or groups in achieving objectives through exploration of a problem and its ramification of attitudes and feelings; consideration of alternative solutions; and decision making. (3 lecture hours per week) **[CIP51.1501]**

DAAC 1319
Introduction to Alcohol and Other Drug Addictions
(3 credits)
Causes and consequences of addiction as they relate to the individual, family, community, and society are discussed. Response alternatives regarding intervention, treatment, education, and prevention are reviewed. Competencies and requirements for licensure in Texas are explained. Addiction issues related to diverse populations are presented. (3 lecture hours per week) **[CIP51.1501]**

DAAC 1364
Practicum Substance Abuse/Addiction Counseling
(3 credits)
Practical, general workplace training supported by an individualized learning plan developed by the state, college, employer and student. The student will apply concepts and skills associated with substance abuse counseling in a licensed treatment facility. (21 practicum hours per week) **[CIP: 51.1501]**

DAAC 1380
Cooperative Education I - Alcohol/Drug Abuse Counseling
(3 credits)
Career related activities encountered in the student's area of specialization are offered through a cooperative agreement between the college, employer, and student. Under supervision of the college and employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objective guide the student through the work experience. This course may be repeated if topics and learning outcomes vary. (1 lecture hour and 20 lab hours per week) Prerequisite: DAAC 1364. **[CIP51.1501]**

DAAC 1381
Cooperative Education II - Alcohol/Drug Abuse Counseling
(3 credits)
Career related activities encountered in the student's area of specialization are offered through a cooperative agreement between the college, employer, and student. Under supervision of the college and employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objective guide the student through the work experience. This course may be repeated if topics and learning outcomes vary. (1 lecture hour and 20 lab hours per week) Prerequisite: DAAC 138 **[CIP51.1501]**

DAAC 1391
Special Topics in Alcohol/Drug Abuse Counseling
(3 credits)
This course is a review of the requirements for licensure in addiction counseling examination. The course is also used to work on topics in the area of mental health or addiction studies - example research/projects/field work. (3 lecture hours per week) **[CIP51.1501]**

DAAC 2306
Substance Abuse Prevention
(3 credits)
This course focuses on aspects of substance abuse prevention from a public health model. We will identify risk and evidence based prevention strategies within a cultural context, include resources for prevention planning and programs.
(3 lecture hours per week) **[CIP: 51.1501]**

DAAC 2307
Addicted Family Intervention
(3 credits)
An introduction to the family as a dynamic system focusing on the effects of addiction pertaining to family roles, rules, and behavior patterns. Discuss the impact of mood altering substances and behaviors and therapeutic alternatives as they relate to the family from a multicultural and transgenerational perspective. (3 lecture hours per week) **[CIP51.1501]**

DAAC 2341
Counseling Alcohol and Other Drug Addictions
(3 credits)
Special skills and techniques in the application of counseling skills for the Alcohol and Other Dru

(AOD) client. Development and utilization of advanced treatment planning and management. Includes confidentiality and ethical issues. The course will use the format of the oral licensure process to prepare students for licensure. (3 lecture hours per week) **[CIP51.1501]**

DAAC 2343
Current Issues
(3 credits)
A study of issues that impact addiction counseling. Special populations, dual diagnosis, ethics, gambling, and infectious diseases associated with addiction counseling will be associated. (3 lecture hours per week) **[CIP51.1501]**

DAAC 2354
Dynamics of Group Counseling
(3 credits)
Exploration of group counseling skills, techniques, and stages of group development.
(3 lecture hours per week) **[CIP 51.1501]**

DAAC 2380
Cooperative Education III - Alcohol/Drug Abuse Counseling
(3 credits)
Career related activities encountered in the student's area of specialization are offered through a cooperative agreement between the college, employer, and student. Under supervision of the college and employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objective guide the student through the work experience. This course may be repeated if topics and learning outcomes vary. (1 lecture hour and 20 lab hours per week) **[CIP51.1501]**

GERS 1301
Introduction to Gerontology
(3 credits)
Overview of the social, psychological, and biological changes that accompany aging and an overview of the implications of these changes for the individual, as well as for the larger society. (3 lecture hours per week) **[CIP30.1101]**

PMHS 1380
Cooperative Education I - Psychiatric/Mental Health Services Technician
(3 credits)
Career related activities encountered in the student's area of specialization are offered through a cooperative agreement between the college, employer, and student. Under supervision of the college and employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objective guide the student through the work experience. This course may be repeated if topics and learning outcomes vary. (1 lecture hour and 20 lab hours per week) **[CIP51.1502]**

PMHS 1381
Cooperative Education II - Psychiatric/Mental Health Services Technician
(3 credits)
Career related activities encountered in the student's area of specialization are offered through a cooperative agreement between the college, employer, and student. Under supervision of the college and employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objective guide the student through the work experience. This course may be repeated if topics and learning outcomes vary. (1 lecture hour and 20 lab hours per week) Prerequisite: DAAC 1380. **[CIP51.1502]**

PMHS 1391
Special Topics in Psychiatric/Mental Health Services Technician
(3 credits)
This course will examine the management of psychological technicians and review the duties of training required. A variety of mental health settings, such as mental retardation, mental illness and dual diagnosis units will be discussed. Residential and non-residential settings will be reviewed in terms of training requirements and employment opportunities. (3 lecture hours per week) **[CIP51.1502]**

PMHS 2380
Cooperative Education III - Psychiatric/Mental Health Services Technician
(3 credits)
Career related activities encountered in the student's area of specialization are offered through a cooperative agreement between the college, employer, and student. Under supervision of the college and employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objective guide the student through the work experience. This course may be repeated if topics and learning outcomes vary. (1 lecture hour and 20 lab hours per week) Prerequisite: DAAC 1381 **[CIP51.1502]**

RECT 1301
Introduction to Therapeutic Recreation
(3 credits)
Introduction to the value, history, philosophy, terminology, process, and outcomes of therapeutic recreation. Emphasis on identification of client groups, leisure activities, application of therapeutic recreation in various human services settings, and professional development and career opportunities. (3 lecture hours per week) **[CIP51.2309**

SCWK 1313
Introduction to Social Work
(3 credits)
An overview of the social work profession and introduction to the terms, concepts, people, and critical events that have shaped the profession. We will examine why individuals enter the helping professions, apply the code of ethics to case work skills, evaluate the impact of social service delivery, discus case management related to the needs of a culturally diverse society, identify community resources to meet various client needs and learn the role of advocacy for individuals who cannot advocate for themselves. (3 lecture hours per week) **[CIP: 44.0701]**

SCWK 1321
Orientation to Social Services
(3 credits)
Introduction to the basic concepts of social welfare, insurance, and service programs and practices. Topics include historical development, social and legal as well as clinical issues in the helping professions. Methods of treatment and services will be discussed for addicted persons and persons with mental illness or mental retardation. (Equates to PMHS 1301) (3 lecture hours per week) **[CIP44.0701]**

Industrial Design Technology

James Langley, Department Chairperson
Lupe Gonzales

ARCE 1452
Structural Drafting
(4 Credits)
A study of structural systems including concrete foundations and frames, wood framing and trusses, and structural steel framing systems; Includes detailing of concrete, wood, and steel to meet industry standards including the American Institute of Steel Construction and The American Concrete Institute. Identify components of structural systems; use reference materials; produce drawings for concrete, wood, and steel framing systems; draw design details and connections for framing components; and draw column and beam details for manufacture and assembly utilizing various fastening methods. (2 lecture and 6 lab hours per week) Prerequisites: DFTG 2419 **[CIP04.0901]**

DFTG 1405
Technical Drafting
(4 credits)
Introduction to the principles of drafting to include terminology and fundamentals, including size and shape descriptions, projection methods, geometric construction, sections, and auxiliary views. Create technical sketches, geometric constructions, orthographic projections, pictorial/sectional views, and dimensioned drawings. (2 lecture and 6 lab hours per week) Prerequisites: DFTG 1409. **[CIP15.1301]**

DFTG 1409
Basic Computer Aided Drafting
(4 credits)
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, coordinate systems, and plot/print to scale. Identify terminology and basic functions used with CAD software; use CAD hardware and software to create, display, and plot/print working drawings. (2 lecture and 6 lab hours per week) Prerequisite: POFI 1204 or as corequisite with dept. approval. **[CIP15.1302]**

DFTG 1433
Mechanical Drafting
(4 credits)
Study of mechanical drawings using dimensioning and tolerances, sectioning
techniques, orthographic projection, and pictorial drawings. Develop a set of working drawings including assembly, detail, and pictorial. (2 lecture and 6 lab hours per week) Prerequisite: DFTG 1445 **[CIP15.1306]**

DFTG 1445
Parametric Modeling and Design
(4 credits)
Parametric-based design software for 3D design and drafting. Use parametric modeling techniques to create rendered assemblies, orthographic drawings, auxiliary views, and details from 3-dimensional models. Prerequisite: DFTG 1405. (2 lecture and 6 lab hours per week). **[CIP15.1306]**

DFTG 2406
Machine Design
(4 Credits)
Theory and practice of design. Projects in problem-solving, including press fit, bolted and welded joints, and transmission components. Utilize the steps used in the design process, terminology, and mechanical processes to produce drawings. (2 lecture and 6 lab hours per week). Prerequisite: DFTG 1433 and DFTG 2440. **[CIP15.1306]**

DFTG 2419
Intermediate Computer-Aided Drafting
(4 credits)
AutoCAD. A continuation of practices and techniques used in basic computer-aided drafting including the development and use of prototype drawings, construction of pictorial drawings, extracting data, and basics of 3D. Produce 2D and 3D drawings, pictorial drawings; use external referencing of multiple drawings (2 lecture and 6 lab hours per week) Prerequisites: DFTG 1409. **[CIP15.1302]**

DFTG 2423
Pipe Drafting
(4 credits)
A study of pipe fittings, symbols, specifications and their applications to a piping process system. Creation of symbols and their usage in flow diagrams, plans, elevations, and isometrics. Create drawings of foundations, structural supports, and process equipment; identify symbols and research specifications; generate a bill of material list; use charts and standards; generate isometric drawings; and calculate measurements for pipe fittings. (2 lecture and 6 lab hours per week) Prerequisites: DFTG 2419 **[CIP15.1302]**

DFTG 2430
Civil Drafting
(4 credits)
In-depth study of drafting methods and principles used in civil engineering. Interpret field notes; develop documents for a civil project; analyze and layout drainage and utilities infrastructure; and perform related calculations. (2 lecture and 6 lab hours per week). Prerequisites: DFTG 1409 Co requites: DFTG 2419. **[CIP15.1304]**

DFTG 2435
Advanced Technologies in Mechanical Design & Drafting
(4 credits)
Use parametric-based software for mechanical design for advanced modeling and analysis. Create advanced surfaces, patterns, and sketched features; create simulations of loads and constraints; review and interpret static and thermal analysis; create tables; and customize user interface. (2 lecture and 6 lab hours per week). Prerequisite: DFTG 1433, DFTG 1445. **[CIP15.1306]**

DFTG 2440
Solid Modeling/Design
(4 credits)
AutoCAD. A computer-aided modeling course. Development of three-dimensional drawings and models from engineering sketches and orthographic drawings and utilization of three dimensionalmodels in design work. Create three-dimensional solid model objects; and generate pictorial and orthographic drawings. (2 lecture and 6 lab hours per week). Prerequisite: DFTG 1409 **[CIP15.1302]**

DFTG 2445
Advanced Pipe Drafting
(4 Credits)
A continuation of pipe drafting concepts building on the basic principles acquired in pipe drafting. Compile a comprehensive set of construction documents from engineering notes and process flow diagrams; solve design implementation problems; apply appropriate codes and standards; document the implementation of a comprehensive industrial plan; create details for cost effective implementation; and integrate appropriate instrumentation and industrial devices. (2 lecture and 6 lab hours per week). Prerequisite: DFTG 2423 **[CIP15.1302]**

DFTG 2450
Geometric Dimensioning and Tolerancing
(4 credits)
Geometric dimensioning and tolerancing, according to standards, application of various geometric dimensions and tolerances to production drawings. Apply tolerance, feature control frame, feature of size, datums, form, orientation, location, runout, and profile controls between various parts. Prerequisite: DFTG 2419. Corequisite: DFTG 1433. (2 lecture and 6 lab hours per week) **[CIP15.1306]**

DFTG 2457
Advanced Technologies in Pipe Design & Drafting
(4 credits)
Advanced design and production techniques using specialized process plant based design software. Use pipe design software; dimension and annotate pipe drawings; reference materials; apply pipe drafting design methods and standards; develop 2D and 3D drawings; and develop flow diagrams and P&IDs. Prerequisite: DFTG 2423 (2 lecture and 6 lab hours per week) **[CIP15.1302]**

DFTG 2481
Cooperative Education
(4 credits)
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. As outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. (1 lecture and 6 lab hours per week) **[CIP15.1301]**

ENTC 1423
Strength of Materials
(4 credits)
Introduces the relationship between externally applied forces and internally induced stresses and the resulting deformations in structural members. Identify the principles of force and load; and calculate and measure the stresses and loads on structures. Prerequisite: TECM 1317 (2 lecture and 6 lab hours per week). **[CIP15.0000]**

TECM 1317
Technical Trigonometry
(3 Credits)
Triangular measurements and calculations used in technical/industrial applications. Calculate right triangles and oblique triangles; convert between polar and rectangular vectors; add and subtract vectors; and analyze sine and cosine waveforms used in technical/industrial applications. (2 lecture and 2 lab hours per week) Prerequisite: Math 1314. **[CIP27.0301]**

Management

Susan Weatherford, Department Chairperson
Lisa Akheituame

BMGT 1327
Principles of Management
(3 credits)
The concepts, terminology, principles, theory, and issues that are the substance of the practice of management are examined. The student will explain the various theories and processes of management including its functions; identify roles of leadership in business; and recognize elements of the communication process and the guidelines for organizational design. (3 lecture hours per week). **[CIP52.0201]**

BMGT 1345
Communication Skills for Managers
(3 credits)
Comprehensive study of communication skills for managers. Includes techniques in reading, writing, listening, and speaking. Emphasizes clear, consise written and verbal/non-berbal communication. Also covers skills for time management. End of Course Outcomes: Create and edit business letters, memos, reports, electronic mail, and presentations; apply time management and active listening skills; and demonstrate clear, concise written and verbal/non-verbal communication. (3 lecture hours & 1 lab hour per week). Prerequisite: DIRW/DIRR 0309 or ENGL 0309. **[CIP 52.0201]**

BMGT 1382
Cooperative Education-Business Administration and Management, General I
(3 credits)
Career related activities encountered in the student's area of specialization are offered through a cooperative agreement between the college, employer and student. Under supervision of the college and the employer, the student combines classroom learning with work experience. Directly

related to a technical discipline, specific learning objectives guide the student through the paid or unpaid work experience. This course may be repeated if topics and learning outcomes vary. Contact Dept. Chair prior to registering. (1 lecture and 20 lab hours per week). **[CIP52.0201]**

BMGT 2303
Problem Solving and Decision Making
(3 credits)
Decision making and problem solving processes in organizations, utilizing logical and creative problem solving techniques. Application of theory is provided by experiential activities such as small group discussions, case studies, and the use of other managerial decision aids. Skills and attitudes will be built around a series of critical questions. These critical questions provide a structure for critical thinking that support a continual, ongoing search for better opinions, decisions, or judgments. (3 lecture hours per week). **[CIP52.0201]**

BMGT 2382
Cooperative Education - Business Administration & Management, General II
(3 credits)
Career related activities encountered in the student's area of specialization are offered through a cooperative agreement between the college, employer and student. Under supervision of the college and the employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objectives guide the student through the paid or unpaid work experience. This course may be repeated if topics and learning outcomes vary. Contact Dept. Chair prior to registering. (1 lecture and 20 lab hours per week).**[CIP52.0201]**

BMGT 2383
Cooperative Education - Business Administration & Management, General III
(3 credits)
Career related activities encountered in the student's area of specialization are offered through a cooperative agreement between the college, employer and student. Under supervision of the college and the employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objectives guide the student through the paid or unpaid work experience. This course may be repeated if topics and learning outcomes vary. Contact Dept. Chair prior to registering. (1 lecture and 20 lab hours per week.) **[CIP52.0201]**

BUSG 2309
Small Business Management
(3 credits)
A course on how to start and operate a small business. Topics include facts about a small business, essential management skills, how to prepare a business plan, financial needs, marketing strategies, and legal issues.(3 lecture hours per week). **[CIP52.0703]**

HRPO 1311
Human Relations
(3 credits)
Practical application of the principles and concepts of the behavioral sciences to interpersonal relationships in the business and industrial environment. (3 lecture hours per week). **[CIP52.1003]**

HRPO 1391
Special Topics in Human Resources Management
(3 credits)
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. Learning outcomes/objectives are determined by local occupational need and business and industry needs. (3 lecture hours per week). **[CIP52.1001]**

HRPO 2301
Human Resources Management
(3 credits)
Behavioral and legal approaches to the management of human resources in organizations. The student will describe and explain the development of human resources management; evaluate current methods of job analysis, recruitment, selection, training/ development, performance appraisal, promotion, and separation; discuss management's ethical, socially responsible, and legally required actions; assess methods of compensation and benefits planning; and examine the role of strategic human resource planning in support of organizational mission and objectives. (3 lecture hours per week). **[CIP52.1001]**

HRPO 2307
Organizational Behavior
(3 credits)
The analysis and application of organizational theory, group dynamics, motivations theory, leadership concepts, and the integration of interdisciplinary concepts from the behavioral sciences. Experiences in managing and resolving organizational problems as well as team dynamics, team building strategies, and cultural diversity will be examined. (3 lecture hours per week.) **[CIP52.1003]**

MRKG 1301
Services Marketing/Management
(3 Credits)
This course examines the characteristics of the service domain which today is the dominate industry in the United States. The planning, organization, production and marketing of quality services will be the focus of the course. It is designed to help develop an understanding of the unique marketing needs and management challenges faced by service organizations through examining customer interactions and perceptions to service experiences. (3 lecture hours per week). Prerequisite: MRKG 1311 **[CIP 52.1401]**

MRKG 1311
Principles of Marketing
(3 credits)
This course is an introduction to basic 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. The student will identify the marketing mix components in relation to market segmentation and interpret market research data to forecast industry trends and meet customer demands. (3 lecture hours per week). **[CIP52.1401]**

MRKG 2333
Principles of Selling
(3 credits)
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 lecture hours per week). **[CIP 52.1401]**

MRKG 2349
Advertising & Sales Promotions of Selling
(3 credits)
Introduction of techniques to create excellent customer service by utilizing Integrated Marketing Communications, Advertising appeals, and promotional concepts. (3 lecture hours per week). Prerequisite: MRKG-1311. **[CIP52.1401]**

Mathematics

Jennifer Hopkins, Department Chairperson
Ralph Best, James Boler, Deanna Dick,
Robin Harbour, Charles Kilgore, Tammi Lansford,
Bette Nelson, Sosina Peterson

NOTE: The basics of arithmetic and algebra are taught in MATH 0310, MATH 0311, and MATH 0312. These courses benefit students needing additional preparation for college level work and those desiring only to improve their mathematical skills. One or all of these courses may be required by state law, or by the ACC Developmental Education Plan, for students whose scores on placement tests fall below established cutoff levels.

NCBM 0200
Non-Course Based Mathematics
(2 credits)
This course includes topics in mathematics such as arithmetic operations, basic algebraic concepts and notation, geometry, and real number systems. (1.5 lecture hours and 1/2 lab hour per week). **[CB32.0104.5319]**

MATH 0310
Developmental Mathematics - Algebra
(3 credits)
This course includes linear equations and inequalities, applications, polynomial, and rational expression operations and equations. The purpose of MATH 0310 is to prepare students for MATH 0312. Students enrolling in this course must meet the developmental algebra standard on the placement test. Prerequisite: NCBM 0200 or MATH 0309. (3 lecture hours and 1 lab hour per week). **[CB32.0104.5119]**

MATH 0311
PreStatistics
(3 credits)
Development of mathematical reasoning and problem-solving abilities with an emphasis on preparation for a course in Statistics. Includes concepts from algebra, a number systems, probability, and use of formulas. The purpose of MATH 0311 is to prepare students for MATH 1342 or MATH 1332. Students enrolling in this course must meet the developmental algebra standard on the placement test. Prerequisite: NCBM 0200 or MATH 0309. (3 lecture hours and 1 lab hour per week). **[CB32.0104.5119]**

MATH 0312
Developmental Mathematics - Intermediate Algebra
(3 credits)
Topics of this course include graphing linear equations, solving systems of equations, laws of exponents, radicals, solving quadratic equations, and functions. The purpose of MATH 0312 is to prepare students for MATH 1314, 1332, or 1342. Students enrolling in this course must meet the intermediate algebra standard on the placement test or have passed MATH 0310 with a grade of A, B, or C. Prerequisite: MATH 0310. (3 lecture hours per week). **[CB32.0104.5219]**

MATH 1314
College Algebra
(3 credits)
In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. Graphing calculators (TI-83, TI-84 or comparable models) are required. Students enrolling in this course must meet the college algebra standard on the placement test or have passed MATH 0312 with a grade of A, B, or C. (3 lecture hours per week). Prerequisite: MATH 0312, and DIRW/DIRR 0310 or READ 0310 with a C or better or the TSI standard in Reading. **[CB27.0101.5419]**

MATH 1324
Finite Math
(3 credits)
This course is designed for business, economics, management, and finance students. The course begins with a review of linear equations and functions followed by a study of matrices, inequalities and linear programming, quadratic functions, exponential and logarithmic functions, mathematics of finance, and concludes with a study of probability. Applications in business and economics will be emphasized (3 lecture hours per week). Prerequisite: MATH 0312, and DIRW/DIRR 0310 or READ 0310 with a C or better or the TSI standard in Reading. **[CB27.0301.5219]**

MATH 1325
Business Calculus
(3 credits)
This course is designed for business, economics, management, and finance students. The course includes a study of derivatives, higher order derivatives, indefinite integrals, definite integrals, and functions of two or more variables. Applications in business and economics will be emphasized. (3 lecture hours per week). Prerequisite: MATH 1314 or MATH 1324. **[CB27.0301.5319]**

MATH 1332
Contemporary Mathematics I
(3 credits)
This course is designed for liberal arts, humanities and human/social sciences. It is not intended for mathematics, science, engineering, elementary education or business majors. The course emphasizes an appreciation of the art, history, beauty, and application of mathematics. Topics may include sets, logic, number theory, measurement, geometric concepts, and an introduction to probability and statistics. Prerequisite: MATH 0312 or MATH 0311 with a grade of A,B, or C or meeting the college algebra standard on a placement test and DIRW/DIRR 0310 or READ 0310 with a C or better or the TSI standard in Reading. (3 lecture hours per week). **[CB27.0101.5119]**

MATH 1333
Contemporary Mathematics for Tech
(3 credits)
This course provides a broad background in principles and applications of mathematics found in the technical and vocational degree programs. Topics will include: a survey of equations, a survey of relations and functions, probability and statistics, and applications. This course will satisfy the math requirements of the Associate of Applied Science, but does not satisfy the math requirements of the Associate of Arts, The Associate of Science, or the Associate of Arts in Teaching degree. Prerequisite: MATH 0310 or 0311 with a C or higher or the equivalent on the college placement exam and DIRW/DIRR 0310 or ENGL 0310 & READ 0310 with a C or better or the TSI standard in Reading. (3 lecture hours per week). **[CB27.0101.5119]**

MATH 1342
Elementary Statistical Methods
(3 credits)
This course includes such topics as permutations and combinations, probability, testing hypotheses, sample theory, parameter estimation, frequency functions, and correlation and regression. (3 lecture hours per week). Prerequisites: MATH 0312 or MATH 0311. **[CB27.0501.5119]**

MATH 1350
Fundamentals of Mathematics I
(3 credits)
This course is designed specifically for students who seek teacher certification. Topics and concepts in this course include 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. (3 lecture hours per week) Prerequisite: MATH 1314 or equivalent or higher level math.
[CB2701015619]

MATH 1351
Fundamentals of Mathematics II
(3 credits)
This course is designed specifically for students who seek teacher certification. Topics and concepts in this course include concepts of geometry, probability, and statistics, as well as applications of algebraic properties of real numbers to concepts of measurement with an emphasis on problem solving and critical thinking. Prerequisite: MATH 1314 or MATH 1350 or equivalent. **[CB27.0101.5719]**

MATH 2318
Linear Algebra
(3 credits)
This course includes such topics as vector spaces, linear independence, bases, linear transformations, matrices, determinants, eigenvalues, eigenvectors, and applications. (3 lecture hours per week). Prerequisite: MATH 2413 or departmental approval. **[CB27.0101.6319]**

MATH 2320
Differential Equations
(3 credits)
This course covers Ordinary Differential Equations and Applications. Included are First Order Equations, Linear Homogeneous Equations with Constant Coefficients, Undetermined Coefficients and Variation of Parameters, and Power Series Methods. The Laplace Transform is used to solve Initial Value Problems. Eigenvalues and Eigenvectors are introduced in order to solve Systems of Linear Differential Equations. Fourier Series are introduced. (3 lecture hours per week). Prerequisite: MATH 2414 or departmental approval. **[CB27.0101.6419]**

MATH 2412
Pre-Calculus Math
(4 credits)
This course covers a review of algebraic operations, trigonometric functions, trigonometric identities and equations, applications of trigonometry, exponential and logarithmic functions, and analytic geometry. Graphing calculators (TI-83, TI-84 or comparable models) are required. (4 lecture hours per week). Prerequisite: MATH 1314 or departmental approval. **[CB2701015819]**

MATH 2413
Calculus I
(4 credits)
This course is designed to meet the needs of mathematics, engineering, and science students. Topics included in this course are vectors and vector operations, limits, continuity, differentation and integration of algebraic and transcendental functions, with applications such as optimization, curve sketching, and finding area under a curve. Students enrolling in this course should have previously taken two years of high school algebra, a course in plane trigonometry, and a course in analytic geometry, or passed MATH 1314 and MATH 2412. (4 lecture hours per week). Prerequisites: MATH 2412 or departmental approval. **[CB27.0101.5919]**

MATH 2414
Calculus II
(4 credits)
This course is a continuation of MATH 2413. Topics include differentiation and integration of hyperbolic and inverse trigonometric functions, techniques of intergration, sequences and series, and applications such as the area between curves. (4 lecture hours per week). Prerequisites: MATH 2413 or equivalent course. **[CB27.0101.6019]**

MATH 2415
Calculus III
(4 credits)
This course is a continuation of MATH 2414. Topics covered include vector-valued functions, functions of several variables, partial differentiation, multiple integrals, vector fields, line integrals, Green's Theorem, Stoke's Theorem, and the Divergence Theorem. (4 lecture hours per week). Prerequisite: MATH 2414 or equivalent course. **[CB27.0101.6119]**

Music

Kevin Moody, Department Chairperson
David Griffith

General Music

MUSI 1158
Opera Workshop
(1 credit)
This course provides practical experience for the singing actor in the integration of music, acting, and staging of portions of operas. (1 lecture and 2 lab hours per week). [CB50.0908.5226]

MUSI 1159/2159
Musical Theater I and II
(1 credit)
This course can be repeated for credit. This course stresses the study and performance of works selected from the music Theater repertoire. (1 lecture and 4 lab hours per week). **[CB50.0903.6126]**

MUSI 1181
Class Piano I
(1 credit)
This course is designed for students with little or no previous keyboard experience and provides a study of basic technique, scales, chords, and repertoire. (1 lecture and 1 lab hour per week). **[CB50.0907.5126]**

MUSI 1182
Class Piano II
(1 credit)
This Class piano course for beginners continues the study of basic techniques, scales, chords, and basic repertoire. (1 lecture and 1 lab hour per week). **[CB50.0907.5126]**

MUSI 1183
Voice Class
(1 credit)
This lab class, designed for students with no previous voice training, provides instruction in breathing, tone production, and diction. (1 lecture and 2 lab hours per week). **[CB50.0908.5126]**

MUSI 1188
Percussion Class
(1 credit)
This required course for music education majors with instrumental concentrations examines techniques of performing and of instructing beginning instrumentalists on snare drum, tympani, xylophone, cymbals, and other percussion instruments. (1 lecture and 2 lab hours per week). **[CB50.0903.5126]**

MUSI 1192
Guitar Class
(1 credit)
This course, designed for beginning guitar students, provides a study of basic techniques, chords, and basic repertoire. (1 lecture and 2 lab hours per week). **[CB50.0911.5126]**

MUSI 1211
Music Theory I
(2 credits)
This course provides a review of musical rudiments, harmony and voice-leading through submediant and mediant chords, figured bass, cadences and phrase structure, basic analysis, and elementary composition. (2 lecture & 1 lab hour per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. Corequisite: MUSI 1216 **[CB50.0904.5126]**

MUSI 1212
Music Theory II
(2 credits)
This course studies harmony and voice-leading through modal mixture, secondary dominants and modulation, periodic structures, and further analysis and composition. (2 lecture & 1 lab hour per week). Prerequisite: DIRW/DIRR 0310 or READ 0310 and MUSI 1211. Corequisite: MUSI 1217 **[CB50.0904.5126]**

MUSI 1216
Sight Singing & Ear Training I
(2 credits)
This required course for music majors is the first of a four-semester presentation of basic aural, visual, and vocal exercises in dictation and in sight-singing. (2 lecture & 1 lab hour per week). Corequisite: MUSI 1211. **[CB50.0904.5626]**

MUSI 1217
Sight Singing & Ear Training II
(2 credits)
This required course for music majors is the second of a four-semester presentation of basic aural, visual, and vocal exercises in dictation and sight-singing. (2 lecture & 1 lab hour per week). Prerequisite: MUSI 1216. Corequisite: MUSI 1212. **[CB50.0904.5626]**

MUSI 1263
Improvisation
(2 credits)
This course presents the techniques of improvising music through the analysis of melodic motives, chordal construction, and sequencing, and it applies this analysis to traditional and contemporary materials. (1 lecture and 2 lab hours per week). **[CB50.0903.6526]**

MUSI 1301
Fundamentals of Music
(3 credits)
Introduction to the basic elements of music theory for non-music majors: scales, intervals, keys, triads, elementary ear training, keyboard harmony, notation, meter, and rhythm. (3 lecture hours per week). Prerequisite: DIRW/DIRR 0309 or READ 0309. **[CB50.0904.5526]**

MUSI 1306
Music Appreciation
(3 credits)
What is music? Where does it come from? What did music sound like 2000 years ago? Who was Beethoven and why should I care? Take this course and find out. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0309 or READ 0309 . **[CB50.0902.5126]**

MUSI 1307
Music Literature
(3 credits)
Survey of the principal muscial forms and cultural periods as illustrated in the literature of major composers. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL/READ 0310 . **[CB50.0902.5126]**

MUSI 1310
American Music
(3 credits)
The Beatles, Elvis, The Rolling Stones, from Rag Time to Hip-Hop: How did all this get started? You'll find out if you take this class. (3 lecture hours per week). Prerequisite: DIRW/DIRR 0309 or READ 0309 **[CB50.0902.5326]**

MUSI 1386
Composition
(3 credits)
This course provides instruction in music composition in small forms for simple media in both traditional and contemporary electronic styles. (3 lecture hours per week). **[CB50.0904.5326]**

MUSI 1390
Electronic Music I
(3 credits)
Overview of computer hardware and software used in the notation, arrangement, composition, performance, and teaching of music. Topics include MIDI and USB instruments and devices, music printing/publishing software, accompanying and sequencing software, smart phone and tablet applications. Prerequisites: MUSI 1211 or 1301, and MUSI 1181 or MUAP 1269. (3 lecture hours per week). **[CB50.0904.5826]**

MUSI 2181
Class Piano III
(1 credit)
This class piano course is for students who have taken 1 year of piano and is a continuation of basic techniques. (1 lecture and 1 lab hour per week). **[CB50.0907.5126]**

MUSI 2182
Class Piano IV
(1 credit)
This class piano course is for students who have taken 3 semesters of class piano and is a continuation of basic techniques. (1 lecture and 1 lab hour per week) **[CB50.0907.5126]**

MUSI 2211
Music Theory III
(2 credits)
This course studies harmony and voice-leading through linear chords, the Neapolitan and augmented sixths, advanced modulation, ninth chords, binary form, more advanced modulation and composition.(2 lecture & 1 lab hour per week). Prerequisite: MUSI 1212, Corequisite: MUSI 2216. **[CB50.0904.5226]**

MUSI 2212
Music Theory IV
(2 credits)
This course studies compositional practices of the twentieth century and later, through analysis and composition exercises. (2 lecture & 1 lab hour per week). Prerequisite: MUSI 2211. Corequisite: MUSI 2217 **[CB50.0904.5226]**

MUSI 2216
Sight Singing & Ear Training III
(2 credits)
This required course for music majors is the third of a four-semester presentation of basic aural, visual, and vocal exercises in dictation and sight-singing. (2 lecture & 1 lab hour per week). Prerequisite: MUSI 1217. Corequisite: MUSI 2211. **[CB50.0904.5726]**

MUSI 2217
Sight Singing & Ear Training IV
(2 credits)
This required course for music majors is the fourth of a four-semester presentation of basic aural, visual, and vocal exercises in dictation and sight-singing. (2 lecture & 1 lab hour per week). Prerequisite: MUSI 2216. Corequisite: MUSI 2212. **[CB50.0904.5726]**

Ensembles

MUEN 1125, 1126, 2125, 2126
Jazz Band
(1 credit each)
This course can be repeated for credit. This organization rehearses and performs contemporary jazz and rock music as well as standard big band literature. Performances include concerts and participation in area festivals. membership is open to all College students by approval of the instructor. (4 rehearsal hours per week). **[CB50.0903.5526]**

MUEN 1122, 1123, 2122, 2123
Concert Band
(1 credit each)
This course can be repeated for credit. This concert group of brass, woodwind, and contemporary works for wind ensembles. (4 rehearsal hours per week). **[CB50.0903.5526]**

MUEN 1135, 2135
Jazz Lab
(1 credit each)
This course can be repeated for credit. This organization performs for many special occasions on and off campus. Music includes small band jazz-rock with emphasis on individual improvisation. Membership is open to all College students by approval of the instructor. (3 hours per week). **[CB50.0903.5626]**

MUEN 1141, 1142, 2141, 2142
Concert Choir
(1 credit each)
This course can be repeated for credit. This organization rehearses and performs traditional and contemporary choral literature. In addition to local concerts, the group participates in campus activities. In order to obtain credit, members must attend all called rehearsals and public performances. (4 rehearsal hours per week). **[CB50.0903.5726]**

MUEN 1143, 1144, 2143, 2144
College Singers
(1 credit each)
This course can be repeated for credit. This organization is limited in membership. Students are selected through auditions from the membership of the College choir. The student must have previous experience in choral music, a member in good standing of the concert choir, ability to sight-read, and instructor approval. (4 rehearsal hours per week). **[CB50.0903.5726]**

MUEN 1151, 1152, 2151, 2152
Chamber Singers
(1 credit)
This course can be repeated for credit. Membership is open to all students on the basis of audition/ conference with the director. Students are also expected to enroll in Concert Choir. (4 rehearsal hours per week). **[CB50.0903.5826]**

Applied Music

All applied music courses are under [CB50.0903.5426]

MUAP 1217, 1218
Applied Music Woodwind
(2 credits each)
These courses provide one hour of individual instruction per week in bassoon, clarinet, flute, oboe, or saxophone. (2 lecture hours per week).

MUAP 1237, 1238
Applied Music Brass
(2 credits each)
These courses provide one hour of individual instruction per week in trumpet, trombone, French horn or tuba. (2 lecture hours per week).

MUAP 1257, 1258
Applied Music Percussion
(2 credits each)
These courses provide one hour of individual instruction a week in the use of percussion instruments. (2 lecture hours per week).

MUAP 1261, 1262
Applied Music Guitar
(2 credits each)
These courses provide one hour of individual instruction a week in guitar. (2 lecture hours per week).

MUAP 1269, 1270
Applied Music Piano
(2 credits each)
These courses provide one hour of individual instruction a week in piano. (2 lecture hours per week).

MUAP 1281, 1282
Applied Music Voice
(2 credits each)
These courses provide one hour of individual instruction per week in voice. (2 lecture hours per week).

MUAP 2217, 2218
Applied Music Woodwind
(2 credits each)
These courses provide one hour of individual instruction per week in bassoon, clarinet, flute, oboe, or saxophone. (2 lecture hours per week).

MUAP 2237, 2238
Applied Music Brass
(2 credits each)
These courses provide one hour of individual instruction per week in trumpet, trombone, French horn or tuba. (2 lecture hours per week).

MUAP 2257, 2258
Applied Music Percussion
(2 credits each)
These courses provide one hour of individual instruction per week in percussion instruments. (2 lecture hours per week).

MUAP 2261, 2262
Applied Music Guitar
(2 credits each)
These courses provide on hour of individual instruction per week in guitar. (2 lecture hours per week).

MUAP 2269, 2270
Applied Music Piano
(2 credits each)
These courses provide one hour of individual instruction per week in piano. (2 lecture hours per week).

MUAP 2281, 2282
Applied Music Voice
(2 credits each)
These courses provide one hour of individual instruction per week in voice. (2 lecture hours per week).

Recording

MUSC 1327
Audio Engineering I
(3 credits)
An overview of the modern recording studio and related personnel. Tomics include basic studio electronics and acoustic principles, waveform analysis, microphone concepts and miking techniques, studio set up and signal flow, recording console theory, signal processing concepts, tape machine principles and operation and an overview of mixing and editing. (2 lecture and 4 lab hours per week). **[CB 10.0203]**

MUSC 2427
Audio Engineering II
(4 credits)
A continuation of Audio Engineering I with emphasis on implementation of the techniques and theories of the recording process. Topics include applications on microphones, the audio console, the multitrack tape recorder and signal processing devices in recording sessions environments. (2 lecture and 4 lab hours per week). Prerequisites: MUSC 1327. **[CB 10.0203]**

MUSC 2447
Audio Engineering III
(4 credits)
Presentation of advanced procedures and techniques utilized in recording and manipulating audio information. Topics include advanced computer based console automation, hard disk based digital audio editing, nonlinear digital multitrack recording and advanced engineering project completions. (2 lecture and 4 lab hours per week). **[CB 10.0203]**

Neurodiagnostic Technology (NDT)

Angelina Klaproth, Department Chairperson

ENDT 1345
Applied Electronics & Instrumentation
(3 credits)
Theory & application of electrical concepts, recording techniques, data analysis, and descriptions. Includes electronics & instrumentation associated with the conventional electroencephalograph such as the power supply, contribution of electrodes, differential amplifier concepts, filters (low frequency, high frequency and 60-Hz filters), the writer unit, electrical output, electrical safety, and standards for clinical electroencephalographs. Also covers ambulatory monitoring & digital electroencephalography. Requires departmental approval. (2 lecture hours & 2 lab hours per week)
[CIP 51.0903]

ENDT 1350
Electroencephalography
(3 credits)
The field of electroencephalography (EEG) and its use in medicine & surgery. Emphasizes patient hookup, taking histories, careful handling of the patient, and reviewing normal and abnormal brainwaves, identifying artifacts, EEG instrumentation, pattern recognition, and sleep recordings. Includes examination of EEG findings in neurological disease and introduces special EEG procedures. Requires departmental approval. (2 lecture hours & 2 lab hours per week) **[CIP 51.0903]**

ENDT 1463
Electroneurodiagnostics Clinical I
(4 credits)
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. (20 clinical hours per week) Prerequisites: ENDT 1345, ENDT 1350, Corequisite: ENDT 2320. **[CIP 51.0903]**

ENDT 2210
Evoked Potentials
(2 credits)
Evoked potentials (EP) instrumentation, EP history, signal averaging, statistics, A/D converter, amplifiers, filters & simulators. Includes recording evoked potentials from volunteers & observing the effect of different variables. Emphasizes somatosensory, visual & brainstem auditory evoked responses & provides practical application & evaluation of EP data. (2 lecture hours per week) Prerequisites: ENDT 1345, ENDT 1350. **[CIP 51.0903]**

ENDT 2215
Nerve Conduction Studies
(2 credits)
Electrodiagnostics, principles of nerve conduction studies and methods designed to assess neuromuscular transmission. Includes conventional & single-fiber electromyography & methods designed for reaching less accessible regions of the nervous system. (2 lecture hours per week) Prerequisites: ENDT 1345, ENDT 1350, & ENDT 2210. **[CIP 51.0903]**

ENDT 2320
Electroneurodiagnostics Technology I
(3 credits)
This course is designed to teach normal and abnormal pattern recognition both awake and asleep for each age range and level of consciousness, seizure manifestations, classifications and EEG correlates. (ACNS) minimum technical standards for pediatric encephalography will also be covered. (2 lecture hours & 2 lab hours per week) Prerequisites: ENDT 1350 & ENDT 1345. **[CIP 51.0903]**

ENDT 2425
Electroneurodiagnostics Technology II
(4 credits)
This course si designed to further explore and introduce specific neurological disease processes and integrate electroencephalographic patterns for these processes. Identifies abnormal functional neuroanatomy & physiological conditions and electroencephalographic correlates. (3 lecture & 2 lab hours per week) Prerequisites: ENDT 1463 Corequisites: ENDT 2463. **[CIP 51.0903]**

ENDT 2463
Electroneurodiagnostics Clinical II
(4 credits)
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. (14 clinical hours per week) Prerequisites: ENDT 1463 Corequisite: ENDT 2425. **[CIP 51.0903]**

ENDT 2661
Electroneurodiagnostics Clinical III
(6 credits)
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. (30 clinical hours per week) Prerequisites: ENDT 1463, ENDT 2463.
[CIP 51.0903]

IONM 1270
Modalities for Spine Surgery
(2 credits
A comprehensive course covering all aspects of spinal cord surgeries. Introduces a review of basic spine anatomy and clinical indications for spine surgery, such as, spinal deformities, stabilization, tumor removal and decompression. Detailed review of instrumentation and recording modalities, signal averaging, statistics, A/D converter, amplifiers, filters, and stimulators as it applies to the environment of operating room. (2 lecture hours per week). Prerequisites: PSGT 1310 ENDT 1345, IONM 1570; Corequisites: ENDT 2210, ENDT1350, IONM 1572. **[CIP 51.0903]**

IONM 1570
Introduction to IONM Topics
(5 credits)
Introduction to IONM is a course that will explore the field of intraoperative neurophysiologic monitoring and give students an opportunity to learn the basics of neuroprotection in the operating room, including evoked potential, nerve conduction and electromyography testing modalities. The course will also cover basic patient care skills, medical terminology, and anesthesia topics. (3 lecture and 6 lab hours per week). Prerequisite: BIOL 2401, Corequisite: PSGT 1310. **[CIP 51.0903]**

IONM 1572
IONM Clinical I
(5 credits)
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. (16 clinical hours per week). Prerequisite: IONM 1570, PSGT 1310, ENDT 1345, Corequisites: IONM 1270, ENDT 2210, ENDT 1350. **[CIP 51.0903]**

IONM 2270
Modalities in Specialty Procedures
(2 credits)
Includes an in depth review of neurosurgical, cardiovascular and epilepsy surgeries and the types of neurophysiologic monitoring used to ensure neuroprotection during critical stages of the surgery. A review of instrumentation components and settings. Details of each type of surgery and properly identifying critical points with emphasis on expected response outcomes, anesthesia, and troubleshooting techniques during such critical points. (2 lecture hours per week). Prerequisites: IONM 1270, IONM 1572, ENDT 2210, ENDT 1350, Corequisites: ENDT 2215, IONM 2570. **[CIP 51.0903]**

IONM 2570
IONM Clinical II
(5 credits)
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. (24 clinical hours per week). Prerequisites: IONM 1270, IONM 1572, ENDT 2210, ENDT 1350, Corequisites: IONM 2270, ENDT 2215. **[CIP 51.0903]**

Nursing (Associate Degree)

Debra Fontenot, Director
Joey Guidry, Kristin Elsner, Mary Alice Estes, Tana Haftner-Burton, Janet Joost, Christy Scales, Wendy Stewart, Ashley White, Jocelyn Wiltz

RNSG 1129
Integrated Nursing Skills II
(1 credit)
Study of the concepts and principles necessary to perform intermediate or advanced nursing skills for care of diverse patients across the lifespan. Content includes knowledge, judgment, skills, and professional values within a legal/ethical framework. (3 lab hours per week). Corequisites: RNSG 2404 and RNSG 1461. **[CIP 51.3801]**

RNSG 1219
Integrated Nursing Skills I
(2 credits)
Study of the concepts and principles necessary to perform basic nursing skills for diverse patients across the lifespan; demonstrate competence in the performance of nursing procedures. Content includes knowledge, judgement, skills, and professional values within a legal/ethical framework. (1 lecture and 3 lab hours per week). Corequisites: RNGS 1523 and RNSG 1260. **[CIP 51.3801]**

RNSG 1240
Professionl Nursing Skills for Articulating Students
(2 credits)
Demonstration of professional nursing skills and procedures; and utilize critical thinking skills in a systematic problem-solving process. Content includes knowledge, judgment, skills, and professional values within a legal/ethical framework. (1 lecture and 3 lab hours per week). Corequisites: RNSG 1327 and RNSG 1262. **[CIP 51.3801]**

RNSG 1246
Legal and Ethical Issues for Nurses
(2 credits)
Study of the laws and regulations related to the provision of safe and effective professional nursing care within the roles of the of the professional nurse as provider of patient-centered care, patient safety advocate, member of the health care team and member of the profession. Content includes confidentiality, the Nursing Practice Act, professional boundaries, ethics, and health care legislation. (2 lecture hours per week). Pre-requisite: RNSG 1441 & 1561 or RNSG 1262 & 1417. **[CIP 51.3801]**

RNSG 1260
Clinical I RN
(2 credits)
A health related work-based learning experience that introduces the student in the application of nursing theory, skills and concepts within the roles of the professional nurse as provider of patient-centered care, patient safety advocate, member of the health care team and member of the profession. Direct supervision is provided by the clinical professional. Clinical experiences allow the student opportunities to begin utilizing nursing skills in caring for adults and family. Clinical education is an unpaid learning experience. Concurrent theory enrollment in RNSG 1523 is required. (6 lab hours per week) Prerequisites: Admission into the ADN Program. Corequisites: PSYC 2314, RNSG 1523, RNSG 1219. **[CIP 51.3801]**

RNSG 1262
Clinical RN Transition
(2 credits)
A health related work-based learning experience that introduces the vocational nurse in the application of nursing theory, skills and concepts within the roles of the professional nurse as provider of patient-centered care, patient safety advocate, member of the health care team and member of the profession. Direct supervision is provided by the clinical professional. Concurrent theory enrollment is required in RNSG 1327. (6 lab hours per week) Prerequisites: Admission into the ADN Program, BIOL 2401, BIOL 2402, BIOL 2420, PSYC 2301, PSYC 2314, ENGL 1301. Corequisite: RNSG 1327 and RNSG 1240. **[CIP 51. 3801]**

RNSG 1327
Transition to Professional Nursing
(3 credits)
Content includes health promotion, expanded assessment, analysis of data, critical thinking skills and systematic problem solving process, pharmacology, interdisciplinary teamwork, communication, and applicable competencies in knowledge, judgement, skills, and professional values within a legal/ethical framework throughout the lifespan. (2 lecture hours and 3 lab hours per week). Prerequisites: Admission into the ADN Program, BIOL 2401, BIOL 2402, BIOL 2420, PSYC 2301, PSYC 2314, ENGL 1301. Corequisite: RNSG 1240 and RNSG 1262. **[CIP 51. 3801]**

RNSG 1441
Common Concepts of Adult Health
(4 credits)
Basic integration of the role of the professional nurse as a provider of patient-centered care, patient safety advocate, member of health care team, and member of the profession. Study of the common concepts of caring for adult patients and families with medical-surgical health care needs related to body systems, emphasizing knowledge, judgment, skills, and professional values within a legal/ethical framework. Concurrent clinical enrollment is required in RNSG 1561. (3 lecture and 2 lab hours per week). Prerequisites: RNSG 1513, RNSG 1215, RNSG 1108. Corequisites: BIOL 2402, PSYC 2301, RNSG 1561. **[CIP 51.3801]**

RNSG 1443
Complex Concepts of Adult Health
(4 credits)
Integration of previous knowledge and skills related to common adult health needs into the continued development of the professional nurse as a provider of patient-centered care, patient safety advocate, member of health care team, and member of the profession in the care of adult patients and families with complex medical-surgical health care needs associated with body systems. Emphasis is on complex knowledge, judgments, skills, and professional values within a legal/ethical framework. Concurrent clinical enrollment is required in RNSG 2563. (3 lecture and 2 lab hours per week) Prerequisites: BIOL 2420; and either RNSG 2213, 1441 or RNSG 1417. Corequisite: RNSG 2563. **[CIP 51.3801]**

RNSG 1461
Clinicial II RN
(4 credits)
A health related work-based learning experience in medical/surgical settings that enables the student to apply professional nursing theory, skills and concepts within the roles of the professional nurse as provider of patient-centered care, patient safety advocate, member of the health care team and member of the profession. Direct supervision is provided by the clinical professional. (12 lab hours per week). Prerequisites: RNSG 1260. Corequisites: RNSG 2404 and RNSG 1129. **[CIP 51.3801]**

RNSG 1512
Nursing Care of the Childbearing and Childrearing Family
(5 credits)
Study of the concepts related to the provision of nursing care for childbearing and childrearing families; application of systematic problem solving processes and critical thinking skills, including a focus on the childbearing family during perinatal periods and the childrearing family from birth to adolescence; and competency in knowledge, judgment, skill, and professional values within a legal/ethical framework. Analysis and synthesis of knowledge and skills are based upon normal and abnormal assessment findings. Pharmacological and nutritional concepts related to the nursing care of the childbearing and childrearing family are incorporated throughout the course. Concurrent clinical enrollment is required in RNSG 2463. (4 lecture and 2 lab hours per week.) Prerequisites: RNSG 1417 and BIOL 2420, or RNSG 1441. Corequisite: RNSG 2463. **[CIP51.3801]**

RNSG 1523
Introduction to Professional Nursing for Integrated Programs
(5 credits)
Introduction to the profession of nursing including the roles of the professional nurse as provider of patient-centered care, patient safety advocate, member of health care team, and member of the profession with emphasis on health promotion and primary disease prevention across the lifespan; 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 patients across the lifesapn; and applicable competencies in knowledge, judgement, skills, and professional values within a legal/ethical framework. (4 lecture and 2 lab hours per week). Prerequisites: BIOL 2401, BIOL 2402, ENGL 1301, PSYC 2301. Corequisites: RNSG 1219, RNSG 1260, PSYC 2314. **[CIP51.3801]**

RNSG 1561
Clinical Nursing: Common Concepts of Adult Health
(5 credits)
A health related work-based learning experience in medical/surgical settings that enables the student to apply professional nursing theory, skills and concepts within the roles of the professional nurse as provider of patient-centered care, patient safety advocate, member of the health care team and member of the profession. Direct supervision is provided by the clinical professional. Concurrent theory enrollment is required in RNSG 1441. (15 lab hours per week) Prerequisites: RNSG 1513, RNSG 1215, RNSG 1108. Corequisites: BIOL 2402, PSYC 2301, RNSG 1441. **[CIP 51.3801]**

RNSG 2121
Management of Client Care
(1 credit)
Exploration of leadership and management principles applicable to the roles of the professional nurse as provider of patient-centered care, patient safety advocate, member of the health care team and member of the profession. Includes application of knowledge, judgment, skills and professional values within a legal/ethical framework. (1 lecture hour per week). Prerequisites: RNSG 1441 & 1561 or RNSG 1262 & 1417. **[CIP 51.3801]**

RNSG 2435
Integrated Patient Care Management
(4 credits)
Application of independent nursing interventions to care for patients and families throughout the lifespan whose health care needs may be difficult to predict. Emphasis on collaborative clinical reasoning, nursing leadership skills, and patient management. Content includes the significance of professional development, trends in nursing and health care, and applicable knowledge, judgement, skills, and professional values within a legal/ethical framework. (3 lecture and 3 lab hours per week). Prerequisite: RNSG 2514. Corequisite: RNSG 2463. **[CIP 51.3801]**

RNSG 2462
Clinical III RN
(4 credits)
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. (12 lab hours per week). Prerequisite: RNSG 1461. Corequisite: RNSG 2514. **[CIP 51.3801]**

RNSG 2463 (blocked curriculum; last time offered Spring 2016)
Clinical Nursing: Nursing of the Childbearing and Childrearing Family
(4 credits)
A health related work-based learning experience in specialty maternity and pediatric settings that enables the student to apply nursing theory, skills, and concepts within the roles of the professional nurse as provider of patient-centered care, patient safety advocate, member of the health care team and member of the profession. Direct supervision is provided by the clinical professional. Concurrent theory enrollment is required in RNSG 1512. (12 lab hours per week) Corequisite: RNSG 1512. **[CIP 51.3801]**

RNSG 2463 (beginning Fall 2015; integrated curriculum; first time offered Spring 2017)
Clinical IV RN
(4 credits)
A health related work-based learning experience that enables the student to apply nursing theory, skills, and concepts within the roles of the professional nurse as provider of patient-centered care, patient safety advocate, member of the health care team and member of the profession. Direct supervision is provided by the clinical professional. Concurrent theory enrollment is required in RNSG 2535. (12 lab hours per week) Prerequisite: RNSG 2462. Corequisite: RNSG 2535. **[CIP 51.3801]**

RNSG 2504
Integrated Care of the Patient with Common Health Care Needs
(5 credits)
Application of a systematic problem-solving process, critical thinking skills and concepts to provide nursing care to diverse patients and families across the lifespan 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 interdisciplinary health care team. Content includes roles of the professional nurse and applicable competencies in knowledge, judgement, skills, and professional values within a legal/ethical framework. (4 lecture and 4 lab hours per week). Prerequisite: RNSG 1523. Corequisites: RNSG 1129 and RNSG 1461. **[CIP 51.3801]**

RNSG 2514
Integrated Care of the Patient with Complex Health Care Needs
(5 credits)
Application of a systematic problem-solving process, critical thinking skills and concepts to provide comprehensive nursing care to diverse patients and families across the lifespan 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 interdisciplinary health care team. Content includes the roles of the professional nurse and applicable competencies in knowledge,judgement, skills, and professional values within a legal/ethical framework. (4 lecture and 2 lab hours per week). Prerequisites: BIOL 2420, RNSG 2404. Corequisite: RNSG 2462. **[CIP 51.3801]**

RNSG 2563
Clinical Nursing: Complex Concepts of Adult Health
(5 credits)
A health-related work-based learning experience in medical/surgical settings that enables the student to apply advanced nursing theory, skills, and concepts within the roles of the professional nurse as provider of patient-centered care, patient safety advocate, member of the health care team and member of the profession. Direct supervision is provided by clinical professional(s). Concurrent theory enrollment is required in RNSG 1443. (15 lab hours per week). Prerequisite: RNSG 2213 or RNSG 1417. Corequisite: RNSG 1443.
[CIP 51.3801]

Nursing (Vocational)

Melinda Wallace, Department Chairperson
Lacy Thirty, Tori McTaggert

VNSG 1122
Vocational Nursing Concepts
(1 credit)
Introduction to the nursing profession and its responsibilities and the legal and ethical issues in nursing practice. Concepts related to the physical, emotional, and psychosocial self-care of the learner/professional. Learning Outcomes: The student will discuss the personal adjustments essential to the development of the vocational nurse; identify the role of the licensed vocational nurse; and discuss the legal and ethical responsibilities in vocational nursing practice. (1 lecture hour per week). **[CIP 51.3901]**

VNSG 1160
Clinical - Practical Nurse I
(1 credit)
A health related work-based experience, that enables the student to apply specialized occupational theory, skills, and concepts. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation, and placement is the responsibility of the college faculty. Clinical experiences are unpaid external learning experience. Learning Outcomes: As outlined in the learning plan, the student will apply the theory, concepts, and skills involving specialized materials, equipment, procedure, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the particular occupation and the business/industry, and demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, communicating in the applicable language of the occupation and the business or industry. (8 clinical hours per week). Corequisite: VNSG 1423. **[CIP 51.3901]**

VNSG 1219
Professional Development
(2 credits)
Study of the importance of professional growth. Topics include the role of the licensed vocational nurse in the multi-disciplinary health care team, professional organizations, and continuing education. Learning Outcomes: The student will describe the role of the licensed vocational nurse in multi-disciplinary settings inclusive of basic principles of leadership and management; discuss the role of professional organizations and regulatory agencies; and identify criteria and appropriate resources for continuing education. (2 lecture hours per week). **[CIP 51.3901]**

VNSG 1226
Geriatrics
(2 credits)
Overview of the normal physical, psychological, and cultural aspects of the aging process. Addresses common disease processes of aging and explores attitudes towards care of the elderly. Topics include but are not limited to introduction to aging; the aging adult; geriatric mental health; sexuality and aging; pain management; geriatric medications; assisting the dying client and family; hospice care. Learning Outcomes: the student will describe the aspects of aging; discuss disease processes associated with aging; and identify perceptions related to care of the older adult. (2 lecture hours per week). Corequisite: VNSG 1661. **[CIP 51.3901]**

VNSG 1227
Essentials of Medication Administration
(2 credits)
General principles of medication administration including determination of dosage, preparation, safe administration, and documentation of multiple forms of drugs. Instruction includes various systems of measurement. Lab required. Learning Outcomes: The student will demonstrate accurate dosage calculation; discuss the principles of medication administration safety; and identify the elements of accurate documentation of medication administration. (1 lecture and 2 lab hours per week). **[CIP 51.3901]**

VNSG 1230
Maternal - Neonatal Nursing
(2 credits)
A study of the biological, psychological, and sociological concepts applicable to basic needs of the family including childbearing and neonatal care. Utilization of the nursing process in the focused assessment and management of the childbearing family. Topics include physiological changes related to pregnancy, fetal development, and nursing care of the family during labor and delivery and the puerperium. Learning Outcomes: The student will discuss human reproduction and fetal development as related to the normal aspects of childbearing; identify common complications of the mother and newborn during prenatal, antenatal, and postnatal periods; and relate characteristics of the normal newborn and associated nursing interventions to meet identified health care needs utilizing the nursing process. (2 lecture hours per week). Corequisite: VNSG 1661. **[CIP 51.3901]**

VNSG 1234
Pediatrics
(2 credits)
Study of the care of the pediatric patient and family during health and disease. Emphasis on growth and development needs utilizing the nursing process. Learning Outcomes: The student will identify safety principles related to childcare; discuss primary nursing care of the pediatric patient and family during the health and disease; and apply concepts of growth and development to the care of pediatric patients utilizing the nursing process. (2 lecture hours per week). Corequisite: VNSG 1661. **[CIP 51.3901]**

VNSG 1301
Mental Health and Mental Illness
(3 credits)
Study of personality development, human needs, common mental mechanisms, and factors influencing mental health and mental illness. Includes common mental disorders and related therapy. Learning Outcomes: The student will identify the characteristics of mental health; identify common mental illness and maladaptive behaviors; describe trends in psychotherapeutic treatment; discuss the application of therapeutic communication skills; and assist in the formulation of a plan of care for the individual with mental illness or maladaptive behavior. (3 lecture hours per week). **{CIP 51.3901}**

VNSG 1329
Medical Surgical Nursing I
(3 credits)
Application of the nursing process to the care of adult and geriatric patients experiencing respiratory, cardiovascular, gastrointestinal, genitourinary, and musculoskeletal, medical-surgical conditions in the health-illness continuum. A variety of health care settings are utilized. Learning Outcomes: The student will identify components of the health-illness continuum; identify prevalent respiratory, gastrointestinal, genitourinary, musculoskeletal, and dermatological medical surgical conditions affecting the adult and gerian and utilize the nursing process to assist in developing a plan of care for selected medical-surgical conditions. (3 lecture hours per week). Corequisite: VNSG 1660. **[CIP 51.3901]**

VNSG 1331
Pharmacology
(3 credits)
Fundamentals of medications and their diagnostic, therapeutic, and curative effects. Includes nursing interventions utilizing the nursing process. Learning Outcomes: The student will identify properties, effects, and principles of pharmacotherapeutic agents; and list common nursing interventions associated with the various pharmacotherapeutic agents. (4 lecture hours per week). **[CIP 51.3901]**

VNSG 1332
Medical - Surgical Nursing II
(3 credits)
Continuation of Medical-Surgical Nursing I with application of the nursing process to the care of adult and geriatric patients experiencing cardiovascular, neurosensory, endocrine, and oncological medical-surgical conditions in the health-illness continuum. Includes a variety of health care settings. Learning Outcomes: The student will identify the components of the health-illness continuum; identify prevalent cardiovascular, neurosensory, endocrine, and oncological medical surgical conditions affecting the adult and gerian and utilize the nursing process to assist in developing a plan of care for selected medical-surgical conditions. (3 lecture hours per week). Corequisite: VNSG 1660. **[CIP 51.3901]**

VNSG 1420
Anatomy & Physiology for Allied Health
(4 credits)
Introduction to the normal structure and function of the body including the neuroendocrine, integumentary, musculoskeletal, digestive, urinary, reproductive, respiratory, and circulatory systems. Learning Outcomes: The student will identify the structure of each of the major body systems; describe the function of each of the major body systems; and discuss the interrelationship of systems in maintaining homeostasis. (4 lecture hours per week). **[CIP 51.3901]**

VNSG 1423
Basic Nursing Skills
(4 credits)
Mastery of entry level nursing skills and competencies for a variety of health care settings. Utilization of the nursing process as the foundation for all nursing interventions. Lab required. Learning Outcomes: The student will demonstrate competency in basic nursing skills; identify the steps in the nursing process and how each relates to nursing care; and discuss the delivery of basic nursing skills in a variety of health care setting. (3 lecture and 4 lab hours per week). Corequisite: VNSG 1160. **[CIP 51.3901]**

VNSG 1660
Clinical - Practical Nurse II
(6 credits)
A health related work-based experience that enables the student to apply specialized occupation theory skills, and concepts. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation, and placement is the responsibility of the college faculty. Clinical experiences are unpaid external learning experience. Learning Outcomes: As outlined in the learning plan, the student will apply the theory, concepts, and skills involving specialized materials, equipment, procedure, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the particular occupation and the business/industry, and demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, communicating in the applicable language of the occupation and the business or industry. (24 clinical hours per week). Corequisites: VNSG 1329 and VNSG 1332. **[CIP 51.3901]**.

VNSG 1661
Clinical - Practical Nurse III
(6 credits)
A health related work-based experience that enables the student to apply specialized occupation theory skills and concepts. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation, and placement is the responsibility of the college faculty. Clinical experiences are unpaid external learning experience. Learning Outcomes: As outlined in the learning plan, the student will apply the theory, concepts, and skills involving specialized materials, equipment, procedure, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the particular occupation and the business/industry, and demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, communicating in the applicable language of the occupation and the business or industry. (24 clinical hours per week). Corequisites: VNSG 1226 and, VNSG 1230, and VNSG 1234. **[CIP 51.3901]**

Nutrition

Debra Fontenot, Department Chariperson

HECO 1322
Nutrition & Diet Therapy
*** The classroom course is only offered in the fall Semester. The internet course is offered each semester.**
(3 credits)
Study of the chemical, physical, and sensory properties of food; nutritional quality; and food use and diet applications. (3 lecture hours per week). Prerequisite: BIOL 2401. **[CIP19.0501.5109]**

Office Administration

Dianna Smith, Department Chairperson

It is the responsibility of all students taking Office Administration internet course(s) to contact their instructor(s) by the third class day through MyBlackboard.

Students are required to use the same text books and software version used by the Office Administration Department. This allows students to locate correct assignments and examples. Internet students have access to the computer labs in D211 when space is available.

ACNT 1303
Introduction to Accounting I
(3 credits)
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. (2 lecture and 3 lab hours per week). **[CIP 52.0302]**

ACNT 1311
Introduction to Computerized Accounting
(3 credits)
Introduction to utililizing the computer and maintaining accounting records, making management decisions, and processing common business applications with primary emphasis on a general ledger package. (2 lecture and 3 lab hours per week). Prerequisite: ACNT 1303. **[CIP 52.0302]**

HITT 1305
Medical Terminology I
(3 credits)
Study of word origin and structure through the introduction of prefixes, suffixes, root words, plurals, abbreviations and symbols, surgical procedures, medical specialties, and diagnostic procedures.(2 lecture and 3 lab hours per week). **[CIP 51.0707]**

POFI 1204
Computer Fundamentals
(2 credits)
Microsoft Word, PowerPoint, Excel, Visio and Outlook. Emphasizes the concurrent development of office skills and computer knowledge. For Industrial Design Technology majors. (1 lecture and 4 lab hours per week). **[CIP 51.0707]**

POFI 1301
Computer Applications I
(3 credits)
For Non-OFAD Majors
Overview of computer office applications using Microsoft Office 2013 including current terminology and technology. Introduction to computer hardware, software applications, and procedures. (2 lecture and 3 lab hour per week) **[CIP 52.0407]**

POFI 1341
Computer Applications II
(3 credits)
Continued study of current computer terminology and technology. Advanced skill development in computer software applications and procedures. End-of-Course Outcomes: Apply advanced skills to produce documents using Visio, Adobe Acrobat, Publisher. Prerequisite: POFI 1301 or POFI 1401. (2 lecture and 3 lab hours per week). **[CIP 52.0407]**

POFI 1349
Spreadsheets
(3 credits)
Spreadsheet software Microsoft Excel 2013 for business applications. Prerequisite: POFI 1301 or POFI 1401 or departmental approval. (2 lecture and 4 lab hours per week) **[CIP 52.0407]**

POFI 1401
Computer Applications I
For OFAD & MGMT Majors
(4 credits)
Overview of computer office applications using Microsoft Office 2013 including current terminology and technology. Introduction to computer hardware, software applications, and procedures. (3 lecture and 3 lab hours per week) **[CIP 52.0407]**

POFI 1449
Spreadsheets
(4 credits)
Spreadsheet software Microsoft Excel 2013 for business applications. Prerequisite: POFI 1301 or POFI 1401 or departmental approval. (3 lecture and 3 lab hours per week) **[CIP 52.0407]**

POFI 2301
Word Processing
(3 credits)
Word processing software Microsoft Word 2013 focusing on business applications. Prerequisite: POFI 1301 or POFI 1401. (2 lecture and 3 lab hours per week). **[CIP 52.0407]**

POFI 2350
Databases (Access)
(3 credits)
In-depth instruction of database applications using Microsoft Access 2013. Prerequisite: POFI 1301 or POFI 1401. (2 lecture and 3 lab hours per week). **[CIP 52.0407]**

POFL1305
Legal Terminology
(3 credits)
This course presents an overview of the areas of law and legal professions, including spelling, pronunciation, and definition of legal terms. (2 lecture and 3 lab hours per week). **[CIP 22.0301]**

POFM 1317
Medical Administrative Support
(3 credits)
Instruction in medical office procedures including appointment scheduling, medical records creation and maintenance, telephone communications, coding, billing collecting, and third party reimbursement. Prerequisite: Computer Literacy required. (2 lecture and 3 lab hours per week). **[CIP 51.0716]**

POFT 1300
Career Exploration & Planning
(3 credits)
An introduction to career exploration, educational planning, and job searching. The student will have the opportunity to identify career options and aptitudes; explain the nature of the career decision-making process and itsongoingapplication; develop a resume and cover letter; demonstrate interviewing skills; and describe follow-up procedures. (2 lecture & 3 lab hour per week). **[CIP 52.0401]**

POFT 1301
Business English
(3 credits)
Introduction to a practical application of basic language usage skills with emphasis on fundamentals of writing and editing for business. (2 lecture and 3 lab hours per week). **[CIP 52.0501]**

POFT 1309
Administrative Office Procedures I
(3 credits)
Study of current office procedures, duties, and responsibilities applicable to an office environment. (2 lecture and 3 lab hours per week) **[CIP 52.0401]**

POFT 1319
Records & Information Management I
(3 credits)
Introduction to basic records information management filing systems including manual and electronic filing. (2 lecture and 3 lab hours per week). **[CIP 52.0401]**

POFT 1325
Business Math Using Technology
(3 credits)
Skill development in business math problem-solving using electronic technology. (2 lecture & 3 lab hour per week). **[CIP 52.0408]**

POFT 1329
Beginning Keyboarding
(3 credits)
For Non-OFAD Majors
Skill development keyboarding techniques. Emphasis on development of acceptable speed and accuracy levels and formatiing basic documents. (2 lecture and 3 lab hours per week) **[CIP 52.0408]**

POFT 1382, 2382
Cooperative Education - Office Occupations and Clerical Services
(3 credits)
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. (1 lecture and 20 lab hours per week) **[CIP 52.0408]**

POFT 1425
Business Math & Machine Applications
(4 credits)
Business Math problem-solving skills using office technology. (3 lecture & 3 lab hours per week). **[CIP 52.0408]**

POFT 1429
Beginning Keyboarding
(4 credits)
Skill development keyboarding techniques. Emphasis on development of acceptable speed and accuracy levels and formatting basic documents. (3 lecture and 3 lab hours per week). **[CIP 52.0408]**

Paralegal

Karen Barnett, Department Chairperson

LGLA 1301
Legal Research & Writing
(3 credits)
This course provides a working knowledge of fundamentals of effective legal research and writing. Topics include law library techniques, computer assisted legal research, briefs, and legal memoranda. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP 22.0302]**

LGLA 1311
Introduction to Law
(3 credits)
This course provides an overview of the law and the legal system. Topics include legal concepts, procedures, terminology and current issues in law. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP 22.0302]**

LGLA 1345
Civil Litigation
(3 credits)
This course presents fundamental concepts and procedures of civil litigation including pretrial, trial, and post-trial phases of litigation and emphasizes the paralegal's role in the civil litigation process. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP 22.0302]**

LGLA 1351
Contract Law
(3 credits)
This course presents fundamental concepts of contract law with emphasis on the paralegal's role. Topics include formation, performance, and enforcement of contracts under the common law and the Uniform Commercial Code. The student will learn to define and properly use contract law terminology; locate, describe and analyze sources of law relating to contract law; understand the ethical obligations of the paralegal and draft documents commonly used in contract law. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP 22.0302]**

LGLA 1353
Wills, Trusts, and Probate Administration
(3 credits)
This course presents fundamental concepts of the law of wills, trusts, and probate administration with emphasis on the paralegal's role. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP 22.0302]**

LGLA 1355
Family Law
(3 credits)
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 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP 22.0302]**

LGLA 1359
Immigration Law
(3 credits)
This course presents fundamental concepts of immigration law with emphasis on the paralegal's role. Topics include substantive and procedural law related to immigration history, removal proceedings, naturalization and citzenship. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP 22.0302]**

LGLA 1380, LGLA 2381
Cooperative Education (Internship) - Paralegal
(3 credits)
The objective of the cooperative education course is to combine the student's classroom learning with work experience. Students must contact the department chair well in advance of taking this course, to arrange a co-op (internship) site. Students should be aware that a co-op (internship) is typically an unpaid experience. (1 lecture & 20 lab hours per week Fall & Spring semester; 25 lab hours per week, Summer semester) Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP 22.0302]**

LGLA 2303
Torts and Personal Injury law
(3 credits)
This course presents fundamental concepts of tort law with emphasis on the paralegal's role. Topics include intentional torts, negligence, and strict liability. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP 22.0302]**

LGLA 2305
Interviewing and Investigating
(3 credits)
This course presents techniques used to locate, gather, document and manage case information. The emphasis is on developing the paralegal's interviewing and investigative skills as well as ethical considerations related to the paralegal's role. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP 22.0302]**

LGLA 2311
Business Organizations
(3 credits)
This course presents basic concepts of business organizations with emphasis on the paralegal's role. Topics include law of agency, sole proprietorships, forms of partnerships, corporations and other emerging business entities. The student will learn terminology related to business organizations, the formation and termination of businesses and how to draft documents related to business entities. (3 lecture hours per week) Prerequisites: Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP 22.0302]**

LGLA 2313
Criminal Law and Procedure
(3 credits)
This course introduces the criminal justice system including procedures from arrest to final disposition, principles of federal and state law, and the preparation of pleadings and motions. (3 lecture hours per week.) Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP 22.0302]**

LGLA 2323
Intellectual Property
(3 credits)
This course presents the fundamentals of intellectual property law, including creation, procurement, preparation, and filing documents related to patents, copyrights, trademarks, and processes of intellectual property litigation with emphasis on the paralegal's role. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CIP 22.0302]**

Pharmacy Technician

Rhonda Boone, Department Chairperson

PHRA 1205
Drug Classification
(2 credits)
This course provides an introduction to the study of disease processes, pharmaceutical drugs abbreviations, classifications, dosages, actions in the body, and routes of administration. (2 lecture hours per week). **[CIP 51.0805]**

PHRA 1291
Special Topics for Pharmacy Technicians
(2 credits)
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. (2 lecture hours per week). **[CIP 51.0805]**

PHRA 1301
Introduction to Pharmacy
(3 credits)
This course provides an overview of the qualifications, operational guidelines, and job duties of a pharmacy technician. Topics include definitions of a pharmacy environment, the profile of a pharmacy technician, legal and ethical guidelines, job skills and duties, verbal and written communication skills, professional resources and safety techniques. (3 lecture hours per week). **[CIP 51.0805]**

PHRA 1304
Pharmacotherapy & Disease Process
(3 credits)
A study of the disease state and therapeutic properties of drugs used in pharmaceutical therapy. (3 lecture hours per week). Prerequisites: PHRA 1301, PHRA 1309, PHRA 1441. **[CIP 51.0805]**

PHRA 1309
Pharmaceutical Mathematics I
(3 credits)
This course includes reading, interpreting, and solving calculation problems encountered in the preparation and distribution of drugs. It will cover conversion of measurements within the apothecary, avoirdupois, and metric systems with emphasis on the metric system of weight and volume. Topics include ratio and proportion, percentage, dilution and concentration, milliequivalents, units, intravenous flow rates, and solving dosage problems. (3 lecture hours per week). **[CIP 51.0805]**

PHRA 1313
Community Pharmacy Practice
(3 credits)
This course introduces the skills necessary to process, prepare, label, and maintain records of physicians' medication orders and prescriptions in a community pharmacy. It is designed to train individuals in supply, inventory, and data entry. It also includes customer service, count and pour techniques, prescription calculations, drug selection and preparation, over-the-counter drugs, record keeping, stock level adjustment, data input, editing, and legal parameters. (2 lecture and 3 lab hours per week). **[CIP 51.0805]**

PHRA 1315
Pharmacy Terminology
(3 credits)
This course provides a study of word origins and structure through the introduction of prefixes, suffixes, and root words as it relates to a pharmaceutical setting. It focuses on translation and recognition of commonly used pharmacy abbreviations. (3 lecture hours per week).
[CIP 51.0805]

PHRA 1349
Institutional Pharmacy Practice
(3 credits)
This course is an exploration of the unique role and practice of pharmacy technicians in an institutional pharmacy with emphasis on daily pharmacy operation. Topics include hospital pharmacy organization, work flow and personnel, medical and pharmaceutical terminology, safety techniques, data entry, packaging and labeling operations, extemporaneous compounding, inpatient drug distribution systems, unit dose cart fills, quality assurance, drug storage, and inventory control. (2 lecture and 3 lab hours per week).
[CIP 51.0805]

PHRA 1441
Pharmacy Drug Therapy and Treatment
(4 credits)
This course is the study of therapeutic agents, their classifications, properties, actions, and effects on the human body and their role in the management of disease. It provides detailed information regarding drug dosages, side effects, interactions, toxicities, and incompatibilities. (3 lecture and 2 lab hours per week). **[CIP 51.0805]**

PHRA 1445
Compounding, Sterile Preparations, & Aseptic Techniques
(4 credits)
This course is a study of sterile products, legal and regulatory guidelines, hand washing techniques, pharmaceutical calculations, references, safety techniques, aseptic techniques in parenteral compounding, proper use of equipment, preparation of sterile products, and safe handling of antineoplastic drugs. (2 lecture and 4 lab hours per week). **[CIP 51.0805]**

PHRA 2262
Clinical - Pharmacy Technician
(2 credits)
This course provides practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. (10 clinical hours per week). Prerequisites: PHRA 1313. **[CIP 51.0805]**

Philosophy

Christopher Chance, Department Chairperson
Marjorie Nash

PHIL1301
Introduction to Philosophy
(3 credits)
A survey course designed to introduce students to some of the more important problems in philosophy and with the methods used to deal with them. Readings from both ancient and modern philosophers will be included. (Three lecture hours per week) Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB38.0101.5112]**

PHIL 1304
Introduction to World Religions
(3 credits)
A comparative study of various world religions including Judaism, Christianity, Islam, Hinduism, Buddhism, Confucianism and Taoism (Daoism), Sikhism, Jainism, and Shinto. (3 lecture hours per week) Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB38.0201.5212]**

PHIL 2303
Introduction to Logic
(3 credits)
This course will explore the nature and methods of clear and critical thinking and correct reasoning such as deduction, induction, scientific reasoning and fallacies. (3 lecture hours per week). Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB38.0101.5212]**

PHIL 2306
Introduction to Ethics
(3 credits)
A philosophical reflection to the basic principles and applications of the moral life in traditional and contemporary views concerning the nature of goodness, happiness, duty and freedom. (3 lecture hours per week) Prerequisite: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB38.0101.5312]**

Physics

Dora Devery, Department Chairperson
Joseph Mills

ENGR 1201
Introduction to Engineering
(2 credits)
An introduction to the engineering profession with emphasis on technical communication and team-based engineering design. (1 lecture hour & 3 lab hours per week) Prerequisite: MATH 1314 or equivalent academic preparation. **[CIP 14.0101.5110]**

PHYS 1301
Essentials of College Physics
(3 credits)
This is a survey course for non-majors to study mechanics, heat, electricity, magnetism, light, and nuclear physics. **Note**: Some mechanical engineering programs will accept the course ENGR 1201 for transfer credit and as applicable to the engineering major, while others will accept the course for transfer credit only. The student is advised to check with the school to which he or she wants to transfer for specific applicability of this course to the engineering major. (3 lecture hours per week) Prerequisite: MATH 0312 and DIRW/DIRR 0310 or READ 0310. **[CB 40.0801.5303]**

PHYS 1401
College Physics I
(4 credits)
This introductory course continues the study of mechanics, heat, electricity, magnetism, light, and nuclear physics. (3 lecture and 3 lab hours per week). Prerequisite: MATH 2412, DIRW/DIRR 0310 or READ 0310. **[CB40.0801.5303]**

PHYS 1402
College Physics II
(4 credits)
This introductory course continues the study of mechanics, heat, electricity, magnetism, light, and nuclear physics. It is recommended that a student receive a grade of a "C" or better in PHYS 1401 before taking this course. (3 lecture and 3 lab hours per week). Prerequisite: PHYS 1401.
[CB40.0801.5303]

PHYS 2425
University Physics I
(4 credits)
This course is designed primarily to meet the needs of the pre-engineering student or physics major. Problem solving techniques with the use of calculus re developed in the topics of vectors, kinematics, forces, work and energy, momentum, torque, angular momentum, simple harmonic motion, gravity, properties of solids and fluids, heat and thermodynamics. (3 lecture and 3 lab hours per week). Prerequisites: DIRW/DIRR 0310 or READ 0310, and MATH 2413. **[CB 40.0101.5403]**

PHYS 2426
University Physics II
(4 credits)
A continuation of PHYS 2425. The topics covered are vibration and mechanical waves, sound electrostatics, electricity, dc and ac circuits, magnetism and electromagnetism, light, optics, lenses and mirrors, relativity and some quantum physics. It is recommended that a student receive a grade of a "C" or better in PHYS 2425 before taking this course. (3 lecture and 3 lab hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310, and PHYS 2425. **[CB 40.0101.5703]**

Polysomnography - Sleep Medicine

Georgette Goodwill, Department Chairperson
Daniel Glaze, MD, Medical Director

HPRS 1304
Basic Health Profession Skills
(3 credits)
A study of the concepts that serve as the foundation for health profession courses, including client care and safety issues, basic client monitoring, and health documentation methods. (2 lecture and 2 lab hours per week). **[CIP 51.0000]**

PSGT 1191
Special Topics in Polysomnography
(1 credit)
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the field of polysomnography and relevant to the professional development of the student. (2 lab hours per week). Prerequisite: PSGT 2411. **[CIP 51.0903]**

PSGT 1205
Neurophysiology of Sleep
(2 credits)
This course is an introduction to the history of sleep medicine and the different stages of sleep. Emphasis is on associated wave patterns and collection and utilization of sleep histories. Requires departmental approval. (2 lecture hours per week) **[CIP 51.0903]**

PSGT 1260
Polysomnography Clinical I
2 credits
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. (12 clinical hours per week) Prerequisite: PSGT-1400. **[CIP 51.0903]**

PSGT 1310
Neuroanatomy and Physiology
(3 credits)
This course is a study of the anatomy of the human central nervous system. The student will also be introduced to cardiopulmonary structures and function as well as ECG interpretation. Requires departmental approval. (3 lecture hours per week) **[CIP 51.0903]**

PSGT 1340
Sleep Disorders
(3 credits)
A discussion of disorders that affect sleep including insomnias, circadian rhythm disorders, narcolepsy, sleep disordered breathing, movement and neuromuscular disorders, and medical and psychiatric disorders. Requires departmental approval. (2 lecture & 2 lab hours per week)
[CIP 51.0903]

PSGT 1400
Polysomnography I
(4 credits)
This course is designed to provide both didactic and lab training for entry-level personnel in the basics of polysomnographic technology. Students will become familiar with terminology, instrumentation

setup and calibration, patient safety and infection control, recording and monitoring techniques, documentation, professional issues, and patient-technologist interactions related to polysomnography technology. Requires departmental approval. (2 lecture and 5 lab hours per week). **[CIP 51.0903]**

PSGT 2205
Sleep Scoring & Staging
(2 credits)
This course provides the student with the skill to score and stage sleep studies: prepare comprehensive sleep records; identify effects of medication, age, gender, sleep/wake schedules and sleep habits and other relevant factors. Evaluate pertinent parameters in sleep disorder studies. Prerequisite: PSGT 1400. (1 lecture and 3 lab hours per week) **[CIP 51.0903]**

PSGT 2250
Infant and Pediatric Polysomnography
(2 credit)
This course is an introduction to the sleep patterns of the infant and pediatric population. the student will be provided with opportunities to perform a pediatric study. (2 lecture hours per week). Prerequisite: PSGT 2411. **[CIP 51.0903]**

PSGT 2411
Polysomnography II
(4 credits)
Development of skills for sleep scoring and staging. Consideration of medication effects, age, gender, sleep/wake schedules, changes in sleep habits ,and other pertinent factors. Students will evaluate parameters such as total record time, total sleep time, sleep efficiency, total wake time, wake after sleep onset, wake after sleep offset, sleep latency, REM latency, stage 1-3, REM sleep, awakenings, arousals, EEG, sleep disordered breathing, leg movements, and cardiac patterns. To include current practices in polysomnography. Including the use of specialized equipment used to record and monitor various physiological parameters involved with sleep testing. Emphasizes sleep disorders, theory of testing and treatment procedures, and analysis of Polysomnography data. This will include calculating the sleep efficiency, sleep onset, and sleep time in REM and non REM. Students will be evaluated on their ability to calculate and analyze gain, sensitivity, filter setting used to acquire a diagnostic exam. (2 lecture and 5 lab hours). Prerequisite: PSGT 1400. **[CIP 51.0903]**

PSGT 2660
Polysomnography Clinical II
(6 credits)
This course provides the student with patient contact in a sleep lab. The student will have the opportunity to observe, perform (under supervision), and evaluate sleep studies. (24 clinical hours per week) Prerequisite: PSGT 1260, Corequisite: PSGT 2411. **[CIP 51.0903]**

PSGT 2661
Polysomnography Clinical III
(6 credits)
This course provides the student with patient contact in a sleep lab. The student will have the opportunity to observe, perform (under supervision), and evaluate sleep studies. (24 clinical hours per week) Prerequisite: PSGT 2660. **[CIP 51.0903]**

Process Technology

Curtis Crabtree, Department Chairperson

CTEC 1401
Applied Petrochemical Technology (Physics)
(4 credits)
This course teaches students the basic principles of physics and their application in process facilities. Included are: fundamental units of measurement related to length, time, mass, pressure, temperature, flow, and level. The properties of solids, liquids, gases, and flowing fluids are reviewed with emphasis placed on how these properties relate to the operation of process equipment. Students are introduced to the gas laws, principles of heat transfer, sensible and latent heat electricity and magnetism. (3 lecture hours, 2 lab hours per week). **[CIP 410301]**

CTEC 2380
Cooperative Education - Process Technology
(3 credits)
An intermediate or advanced course with lecture and work-based instruction that helps students gain practical experience in the discipline, enhance skills, and integrate knowledge. This course may be substituted for PTAC 1454. Indirect supervision is provided by the work supervisor while the lecture is provided by the college faculty or by other individuals under the supervision of the educational institution. Cooperative education is a paid company intership learning experience. Availability of this course depends on available positions in the industry. (1 lecture hour, 20 co-op hours per week). (See syllabus for prerequisites.) **[CIP 410301]**

CTEC 2480
Cooperative Education - Process Technology
(4 credits)
An intermediate or advanced course with lecture and work-based instruction that helps students gain practical experience in the discipline, enhance skills, and integrate knowledge. This course may be substituted for PTAC 1454. Indirect supervision is provided by the work supervisor while the lecture is provided by the college faculty or by other individuals under the supervision of the educational institution. Cooperative education is a paid company intership learning experience. Availability of this course depends on available positions in the industry. (1 lecture hour, 21 co-op hours per week). (See syllabus for prerequisites.) **[CIP 410301]**

PTAC 1302
Introduction to Process Technology
(3 credits)
An introduction to process operations in refineries and chemical plants. The course includes: industry terminology, process technician duties, responsibilities, equipment, and expectations; plant organizations; review of applied mathematics; applied physics; applied chemistry; plant process and utility systems; maintenance expectations for process technicians; communication skills; quality statistics, economics, and problem solving. A discussion of physical and mental requirements of the process technician, family, and career considerations is included. (3 lecture hours, 1 lab hour per week). **[CIP 410301]**

PTAC 1308
Safety, Health, and Environment in the Process Industry
(3 credits)
This course focuses on the fire triangle, firefighting for process technicians; hazards of air, steam, water, electricity, light hydrocarbons, operating hazards, properties of hazardous materials, personal protective equipment, engineering and administrative controls, testing equipment; and regulatory review–Federal, state, local. (3 lecture hours, 1 lab hour per week) **[CIP 410301]**

PTAC 1310
Process Technology I (Equipment)
(3 credits)
This course reviews the fundamentals and operating considerations of process equipment and processes including: valves, piping, vessels, positive displacement and centrifugal pumps, positive displacement and centrifugal compressors, steam turbines, motors, and heat transfer. This course develops theory as well as mechanics of plant equipment. Prerequisite: PTAC 1302. (3 lecture hours, 1 lab hours per week) **[CIP 410301]**

PTAC 1332
Process Instrumentation I
(3 credits)
This course introduces students to the instruments in the primary process control loops including temperature, pressure, flow level, analyzer, pH and conductivity, piping and instrument diagrams and symbols. This course focuses on analog and digital control system, distributive control and process logic control, manual, auto, cascade, split range, ratio, feedback and feed forward control. Students will trace and understanding the control systems on several training units and a series of Simtronics process control simulators that requires students to complete off hours simulator lab assignments. (3 lecture & 1 lab hour per week) **[CIP 410301]**

PTAC 1354
Industrial Processes
(3 credits)
This course examines the types of processes employed in petroleum refining and chemical operations. Included are crude distillation, coking, fluid catalytic cracking, hydrocracking, desulfurization, reforming, alkylation, polymerization, treating, olefin production, and many other common processes. (3 lecture hours, 1 lab hours per week) Prerequisite: PTAC 2420. **[CIP 410301]**

PTAC 1410
Process Technology I (Equipment)
(4 credits)
This course reviews the fundamentals and operating considerations of process equipment and processes including: valves, piping, vessels, positive displacement and centrifugal pumps, positive

displacement and centrifugal compressors, steam turbines, motors, and heat transfer. This course develops theory as well as mechanics of plant equipment. Prerequisite: PTAC 1302. (3 lecture hours, 2 lab hours per week) **[CIP 410301]**

PTAC 1454
Industrial Processes
(4 credits)
This course examines the types of processes employed in petroleum refining and chemical operations. Included are crude distillation, coking, fluid catalytic cracking, hydrocracking, desulfurization, reforming, alkylation, polymerization, treating, olefin production, and many other common processes. (3 lecture hours, 2 lab hours per week) Prerequisite: PTAC 2420. **[CIP 410301]**

PTAC 2314
Quality (including SPC and Economics)
(3 credits)
Students are taught advanced quality techniques employed by industry to remain competitive in today's global economy. The widespread use of statistical techniques is stressed. Students learn principles of data handling, plotting, flow charting, histograms, standard deviation, control charts, cause and effect diagrams, etc. Principles of economics, as they affect unit, plant and corporate realizations are explored to give the student a foundation in the factors which affect business profitability. Team activities are a fundamental part of this course. This course is only offered on-line via MyBlackboard. Access to high-speed Internet is recommended. (2 lecture hours, 2 lab hours per week) **[CIP410301]**

PTAC 2420
Process Technology II (Systems)
(4 credits)
This course reviews the unit operations employed in the refining and chemical industry including: distillation; absorption; adsorption; reactions; refrigeration; cooling systems, utilities, and auxiliary systems. (3 lecture hours, 2 lab hours per week) Prerequisite: PTAC 1410. **[CIP410301]**

PTAC 2436
Process Instrumentation II
(4 credits)
This course continues with Simtronics simulations practices and hands on operation on several training modules. Course topics include process and instrumentation loop tracking and memorizations, position management, signal transmission and communication, automatic controls, safety instrumented systems and instrument and control applications. Students will get practical experience in the operations of distributive control using Emerson DeltaV. (3 lecture hours, 2 lab hours per week) Prerequisites: PTAC 1332. **[CIP410301]**

PTAC 2438
Process Technology III (Operations)
(4 credits)
This course will review process plant operations with emphasis on the elements of effective operations, routine technician duties, startups, shutdowns, emergency and non-routine operations, procedure writing, team and communications skills, process economic considerations, and commissioning new and revamped process facilities. Students work with operating process model and tour the college cogen/refrigeration facility. (3 lecture hours, 2 lab hours per week) Prerequisites: PTAC 1332 & 2420. **[CIP410301]**

PTAC 2446
Process Troubleshooting
(4 credits)
This course introduces students to different types of troubleshooting techniques and describes how these methods are used to solve problems in various process operations. Teams of students are given field problems which they approach from both a technical and practical viewpoint. The text includes specific problems which are presented in a comprehensive and easy to understand style. (3 lecture hours, 2 lab hours per week) Prerequisite: PTAC 2420 **[CIP410301]**

SCIT 1414
Applied General Chemistry
(4 credits)
Industrial chemistry introduces students to the fundamentals of chemistry, particularly as they apply to process system operations. Topics covered include atomic structure, elements, compounds, mixtures, equations, material balances, inorganic and organic process reactions. Particular emphasis is placed on hydrocarbon chemistry--the many families that are found in crude oil and natural gas. Included are typical process reactions such as alkylation, hydrogenation, polymerization, olefins production, etc. (3 lecture hours, 2 lab hours per week) **[CIP400501]**

TECM 1303
Technical Calculations
(3 credits)
Specific mathematical calculations required by business and industry; Includes whole numbers, fractions, mixed numbers, decimals, percents, ratios, and proportions. Also covers converting to different units of measure (standard and/or metric). Solve business/industry problems using addition, subtraction, multiplication, and division; convert between whole numbers, fractions, mixed numbers, and decimals; perform calculations involving percents, ratios, and proportions; and convert numbers to different units of measurement (standard and/or metric). (3 lecture and 1 lab hour per week) **[CIP27.0301]**

Psychology

Traci Elliott, Department Chairperson
Tonya Reid Creel, Nancey Lobb, Jean Raniseski

PSYC 1300
Learning Strategies
(3 credits)
This course provides an introduction to basic learning theories and strategies. Emphasis will be placed on identifying individual learning styles and developing the necessary skills for college success. (3 lecture hours per week). **[CB42.2701.5125]**

PSYC 2301
General Psychology
(3 credits)
This course gives students a broad overview of the field and introduces them to fundamental theories of behavior. Emphasis will be placed on experimental research; cognitive, social and emotional development; neuroscience; sensation and perception; motivation; and identity. (3 lecture hours per week) Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB42.0101.5125]**

PSYC 2306
Human Sexuality
(3 credits)
This course involves the study of psychological, sociological, and physiological aspects of human sexuality. (3 lecture hours per week) Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB 42.0101.5325]**

PSYC 2307
Adolescent Psychology
(3 credits)
This course explores physical, cognitive, social, and emotional factors that impact adolescent development. Emphasis will be placed on the transition between adolescence and early adulthood. (3 lecture hours per week) Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB42.2703.5125]**

PSYC 2308
Child Growth and Development
(3 credits)
This course explores physical, cognitive, social, and emotional development from conception through middle childhood. Emphasis will be placed on factors which influence children's growth and development. (3 lecture hours per week) Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB42.2703.5125]**

PSYC 2314
Life-Span Growth & Development
(3 credits)
This course provides an overview of physical, cognitive, social, and emotional development from conception through death. Emphasis will be placed on factors that impact each stage of life. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB42.2703.5125]**

PSYC 2315
Psychology of Adjustment
(3 credits)
This course is a study of the processes involved in adaptation of individuals to their personal and social environments. Emphasis will be placed on the principles of behavior which underlie positive and healthy adjustment to everyday life. (3 lecture hours per week) Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB42.0101.5625]**

PSYC 2316
Psychology of Personality
(3 credits)
This course investigates complex determinants of personality. Emphasis will be placed on the main theories and assessments of personality. (3 lecture hours per week) Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB42.0101.5725]**

PSYC 2317
Statistical Methods in Psychology
(3 credits)
This course introduces students to measurements and formulas psychologists use to explain human behavior. Emphasis will be placed on measures of central tendency and variability, statistical inference, correlation, and regression. (3 lecture hours per week) Prerequisites: PSYC 2301 and MATH 0311 or MATH 0312.
[CB42.0101.5225]

PSYC 2319
Social Psychology
(3 credits)
This course involves the study of individual behavior within the social environment. Emphasis will be placed on conformity, obedience, group influence, attitude formation and change, and interpersonal relationships. (3 lecture hours per week) Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB42.2707.5125]**

PSYC 2389
Academic Cooperative
(3 credits)
This course is an instructional program designed to integrate on-campus study with practical, hands-on experience in psychology. It may involve seminars, and individual projects with specific goals and objectives in the study of human behavior and/or social institutions. (2 lecture & 3 co-op hours per week) Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB45.0101.5125]**

Reading

Developmental Reading classes are now listed under Academic Foundations.

Respiratory Care

Marby McKinney , Norma Lahart,
Luigi Terminella, MD, Medical Director

RSPT 1166
Practicum - Respiratory Care Therapist
(1 credit)
This is an introductory course to the hospital setting. Students will be able to observe and perform the skills taught in adjoining courses. (8 lab per week) **[CIP 51.0908]**

RSPT 1191
Special Topics in Respiratory Care
(Professional Issues)
(1 credit)
This course introduces the students to current issues facing the Profession of Respiratory Care. In addition, the activities of the three major professional sponsors - the AARC, the NBRC and the Co ARC are discussed. Students will select current issues from the professional literature and develop presentations covering the topics of accreditation, credentialing, management, education, and clinical practice. (4 lab hours per week). **[CIP 51.0908]**

RSPT 1207
Cardiopulmonary Anatomy and Physiology
(2 credits)
This course is designed to introduce the student to the physiology of the cardiovascular, renal, and pulmonary systems. The student also be comes acquainted with the terminology used in respiratory physiology. (2 lecture and 1 lab hour per week) Prerequisite: DIRW/DIRR 0309 or READ 0309. **[CIP51.0908]**

RSPT 1225
Respiratory Care Sciences
(2 credits)
Physics, mathematics, and chemistry as related to respiratory care. (2 lecture and 1 lab hours per week) Prerequisite: DIRW/DIRR 0309 or READ 0309. **[CIP51.0908]**

RSPT 1262
Respiratory Care Clinical II
(2 credits)
This course provides the student with the opportunity to apply skills necessary for managing and monitoring the patient-ventilator system in the intensive care setting. It includes attending physician rounds, presentation of patient assessments and respiratory care plan. (16 lab hours per week). Requires departmental approval. **[CIP51.0908]**

RSPT 1266
Respiratory Care Practicum I
(2 credit)
This course gives students the opportunity to perform and to demonstrate clinically the knowledge gained in parallel courses. Setups, operation, and troubleshooting involved with the more sophisticated equipment are also included. (16 lab hours per week) Requires departmental approval. **[CIP51.0908]**

RSPT 1310
Respiratory Care Procedures I
(3 credits)
An in-depth study of basic respiratory concepts, theories and techniques needed in the education of the polysomnography student. Application of these procedures are instructed and performed in the lab and in the clinical area under supervision. (2 lecture and 2 lab hours per week) **[51.0908]**

RSPT 1331
Respiratory Care Fundamentals II
(3 credits)
Provides a foundation for the development of knowledge and skills for respiratory care including lung expansion therapy, postural drainage and percussion, artificial airways, manual resuscitation devices and suctioning. (2 lecture and 3 lab hours per week) Requires departmental approval. **[CIP51.0908]**

RSPT 1429
Respiratory Care Fundamentals I
(3 credits)
Provides a foundation for the development of knowledge and skills for respiratory care including history, medical terms/symbols, medical/legal, infection control, vital signs, physical assessment, medical gas therapy, oxygen analyzers, and humidify/aerosol therapy. Application of these procedures are performed in the lab under supervision. (3 lecture and 2 lab hours per week) Requires departmental approval. **[CIP51.0908]**

RSPT 2131
Clinical Simulations for Respiratory Care
(1 credit)
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 computerized simulations, and basic concepts of computer usage. (3 lab hours per week) Prerequisites: All previous respiratory care courses or permission of the Chairperson. **[CIP51.0908]**

RSPT 2166
Respiratory Care Practicum V
(1 credit)
This course is designed for the student to rotate through specialty areas including the pulmonary function lab, hyperbaric medicine, sleep studies, emergency room, bronchoscopy, intubation, and EKG rotations. (8 lab hours per week). Requires departmental approval.
[CIP51.0908]

RSPT 2217
Respiratory Care Pharmacology
(2 credits)
A study of pharmacological principles/practices of drugs which affect the cardiopulmonary systems. Emphasis on classification, route of administration, dosages/calculations, and interaction of the autonomic nervous system. (2 lecture and 1 lab hours per week) Requires departmental approval.
[CIP51.0908]

RSPT 2266
Respiratory Care Practicum III
(2 credits)
In this course the student applies all respiratory concepts related to patient care to demonstrate experience as a practicing therapist with the correlation of advanced clinical and technological concepts. (16 lab hours per week) Requires departmental approval. **[CIP51.0908]**

RSPT 2267
Respiratory Care Practicum IV
(2 credits)
This in-depth exposure to respiratory care and ventilator management with emphasis on neonatal and pediatric therapy. Case studies and follow-ups are presented. (18 lab hours per week) Requires departmental approval. **[CIP51.0908]**

RSPT 2305
Pulmonary Diagnostics
(3 credits)
The theories and techniques involved in pulmonary function testing diagnostics with emphasis on blood gas theory and analysis, quality control, oximetry, and capnography. (2 lecture and 3 lab hours per week) Requires departmental approval. **[CIP51.0908]**

RSPT 2310
Cadiopulmonary Diseases I
(3 credits)
A discussion of pathogenesis, pathology, radiological diagnosis, history, prognosis, manifestations, treatment, and detection of cardipulmonary diseases. (2 lecture and 2 lab hours per week) Requires departmental approval. **[CIP51.0908]**

RSPT 2314
Mechanical Ventilation II
(3 credits)
This course is a continuation of mechanical ventilation designed to provide the student with the opportunity to set up, operate, and troubleshoot various volume ventilators on the market today. Emphasis will be placed on building skills needed to work with volume and pressure ventilators.(2 lecture and 2 lab hours per week) Requires departmental approval. **[CIP51.0908]**

RSPT 2355
Critical Care Monitoring
(3 credits)
This course is designed to familiarize the student with techniques used clinically to assess a patient both subjectively and objectively. It also introduces the student to invasive monitoring systems used in the critical care setting such as Swan-Ganz catherization, CVP and arterial lines, intracranial pressure monitoring, chest drainage, and counterpulsation. (2 lecture and 4 lab hours per week) Requires departmental approval. **[CIP51.0908]**

RSPT 2414
Mechanical Ventilation I
(4 credits)
Preparation to conduct the therapeutic procedures to achieve adequate, spontaneous, and artificial ventilation with emphasis on ventilator classification, methods, principles, and operational characteristics. Also included are the indications, complications, and physiologic effects/principles of mechanical ventilation. (3 lecture and 4 lab hours per week) Requires departmental approval. **[CIP51.0908]**

RSPT 2453
Neonatal/Pediatric Cardiopulmonary Care
(4 credits)
This course explores the care of the pediatric patient with cardiopulmonary disease. cardiopulmonary anatomy and physiology, fetal development, diseases, and equipment and therapeutic techniques used in treating these diseases are covered. Also included in this course is a PALS certification course and a NRP certification course. (3 lecture & 2 lab hours per week) Requires departmental approval. **[CIP51.0908]**

ROTC Air Force
(Reserve Officer Training Corps)

Admissions & Academic Advising Office

AFSC 1201, 1202
Foundations of the USAF I, II
(2 Credits) (1-1)
Overall roles and missions of the USAF; career fields available. Emphasis on military customs and courtesies, appearance standards, core values, written and personal communication. Introduction to American military history. (1 lecture and 2 lab hours per week) **[CIP 28.0101.0099]**

AFSC 2201, 2202
Evolution of Air Power I, II
(2 credits) (1-1)
Key historical events and milestones in the development of air power as a primary instrument of United States national security. Core values and competencies of leaders in the United States Air Force. Tenets of leadership and ethics. (1 lecture and 2 lab hours per week) **[CIP 28.0101.0099]**

Sociology

Traci Elliott, Department Chairperson
Gerald Crane, Jean Raniseski

SOCI 1301
Introductory Sociology
(3 credits)
This course presents a scientific examination of human social life, the unique social order of groups, and the products of living in society. Emphasis will be placed on social interaction patterns, group processes, and established institutions. (3 lecture hours per week) Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB45.1101.51 25]**

SOCI 1306
Social Problems
(3 credits)
This course includes scientific examination of conditions that are disruptive to society today, those seen as problematic for society as a whole, and those that represent violations of the norms in society. Emphasis will be placed on population, poverty, social minorities, mass society, delinquency, crime, drugs, sexual deviance, disorganization of family, education, and religion. (3 lecture hours per week) Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB45.1101.5225]**

SOCI 2301
Marriage and the Family
(3 credits)
This course is a sociological examination of marriage and family life. Emphasis will be placed on issues associated with courtship, mate selection, marriage adjustment, and parenting in modern American society. (3 lecture hours per week) Prerequistites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB45.1101.5425]**

SOCI 2306
Human Sexuality
(3 credits)
This course involves the study of psychological, sociological, and physiological aspects of human sexuality. (3 lecture hours per week). Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB42.0101.5325]**

SOCI 2319
Minority Studies
(3 credits)
This course provides an introduction to multi-cultural and multi-ethnic diversity within the United States. Emphasis will be placed on the patterns of discrimination, prejudice, educational and healthcare disparities, and crime. (3 lecture hours per week) Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB45.1101.53 25]**

SOCI 2326
Social Psychology
(3 credits)
This course involves the study of individual behavior within the social environment. Emphasis will be placed on conformity, obedience, group influence, attitude formation and change, and interpersonal relationships. (3 lecture hours per week) Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB42.2707.5125]**

SOCI 2336
Criminology
(3 credits)
This course includes current theories and empirical research pertaining to crime and criminal behavior. Emphasis will be placed on its causes, methods of prevention, systems of punishment, and rehabilitation. (3 lecture hours per week) Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB45.0401.5125]**

SOCI 2340
Drug Use & Abuse
(3 credits)
This course involves the study of the use and abuse of drugs in today's society. It will include physiological, sociological, and psychological factors. (3 lecture hours per week) Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB51.1504.52 16]**

SOCI 2389
Academic Cooperative
(3 credits)
This course is part of an instructional program designed to integrate on-campus study with practical, hands-on experience in sociology. It may involve seminars and independent projects with specific goals and objectives for the study of human behavior and institutions. (2 lecture & 3 co-op hours per week) Prerequisites: DIRW/DIRR 0310 or ENGL 0310 & READ 0310. **[CB45.0101.5125]**

Spanish

Saul Olivares

NOTE: Students cannot enroll in any Language Program (Second Language or Heritage Language) if they have not taken the Foreign Language Placement Exam required in each track. Failure to comply with this requirement may result in being dropped from the class. Based on performance on the placement exam, students may be placed in SPAN 1412, 2311, 2312, 2313, or 2315, and may earn up to 11 credit hours.

SPAN 1300
Beginning Spanish Conversation I*
(3 credits)
This course provides basic practice in comprehension and production of spoken Spanish. (3 lecture hours per week). **[CB16.0905.5413]**

SPAN 1411
Beginning Spanish I*
(4 credits)
This course provides basic Spanish language skills in listening, speaking, reading, and writing within a cultural framework. Students will acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the beginner level. Prerequisite: Placement Exam within a semester prior to enrollment. (3 lecture and 2 lab hours per week). **[CB16.0905.5113]**

SPAN 1412
Beginning Spanish II*
(4 credits)
This course provides continued development of basic Spanish language skills in listening, speaking, reading, and writing within a cultural framework. Students acquire the vocabulary and grammatical structures necessary to communicate and comprehend at a high beginner to low intermediate level. Prerequisite: Successful completion of SPAN 1411 with a minimum grade of C in the 12 months prior to enrollment or by Placement Exam immediately prior to enrollment. (3 lecture and 2 lab hours per week). **[CB16.0905.5113]**

SPAN 2311
Intermediate Spanish I*
(3 credits)
This course consolidates skills acquired at the introductory (beginning) level. It provides further development of proficiency in listening, speaking, reading and writing. It emphasizes comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world. Prerequisite: Successful completion of SPAN 1412 with a minimum grade of C in the 12 months prior to enrollment or by Placement Exam immediately prior to enrollment. (3 lecture and 1 hour per week). **[CB16.0905.5213]**

SPAN 2312
Intermediate Spanish II*
(3 credits)
This course continues the consolidation of skills acquired at the introductory (beginning) level. It provides further development of proficiency in listening, speaking, reading and writing. It emphasizes comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world. Prerequisite: Successful completion of SPAN 2311 with a minimum grade of C in the 12 months prior to enrollment or by Placement Exam immediately prior to enrollment. (3 lecture and 1 lab hours per week). **[CB16.0905.5213]**

SPAN 2313
Spanish for Native/Heritage Speakers I*
(3 credits)
This course builds upon existing oral proficiencies of heritage speakers of Spanish. It enhances proficiencies in the home-based language by developing a full range of registers including public speaking and formal written discourse. It emphasizes comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world. Prerequisite: Departmental approval or by Placement Exam immediatley prior to enrollment. (3 lecture hours and 1 lab hour per week) **[CB16.0905.5213]**

SPAN 2315
Spanish for Native/Heritage Speakers II*
(3 credits)
This course builds upon existing oral proficiencies of heritage speakers of Spanish. It enhances proficiencies in the home-based language by developing a full range of registers including public speaking and formal written discourse. It emphasizes comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world. Prerequisite: Departmental approval or by placement Exam immediately prior to enrollment. (3 lecture hours and 1 lab hour per week). **[CB16.0905.5213]**

SPAN 2289, 2389
Academic Cooperative
(2, 3 credits)
This instructional program is designed to integrate on-campus study with practical hands-on experience. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of Spanish language and literature. (2 or 3 lecture hours and 12 or 20 practicum hours per week). Prerequisite: Departmental approval.
[CB 24.0103.5212]

Speech

Sara Mangat, Department Chairperson
Earnest Burnett, Bill Waggoner

SPCH 1315
Public Speaking
(3 credits)
This course concentrates on the methods of organization and the techniques of delivery of the platform speech, with emphasis on explanation and persuasion. The course includes a study of group methods of problem solving and parliamentary procedures. (3 lecture hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. **[CB23.1304.5312]**

SPCH 1318
Interpersonal Communication
(3 credits)
This course presents theory, examples, and participation in exercises in order to improve effective one-to-one and small group communication. (3 lecture hours per week). Prerequisites: DIRW/ DIRR 0310 or ENGL 0310 & READ 0310. **[CB23.1304.5412]**

SPCH 1321
Business Speaking
(3 credits)
Theory and practice of communication as applied to business and professional situations. The course will analyze trends in business communication and provide practical application of selected methods. (3 lecture hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. **[CB23.1304.5212]**

SPCH 2335
Argumentation and Debate.
(3 credits)
Theory and practice in argumentation and debate including analysis, reasoning, organization, strategy, and refutation. (3 lecture hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310 **[CB23.1304.5912]**

SPCH 2341
Oral Interpretation
(3 credits)
This course presents the study of platform interpretation of literature. The course emphasizes improvement in voice, pronunciation, and inunciation for interpreting lyric poetry, narrative prose and poetry, the descriptive essay monologue, and dramatic scenes. This course is particularly recommended for English and elementary majors. (3 lecture hours per week). Prerequisite: DIRW/DIRR 0310 or READ 0310. **[CB23.1304.5712]**

Sports and Human Performance

Bonny Johnson, Department Chairperson
Bryan Alexander, Jason Schreiber

ACTIVITY COURSES

Students are strongly advised to research the transferability of repeated course before enrollment. Any course in the ranges 1100-1150 and 2100-2150 are under [CB36.0108.5123]

PHED 1100, 1110
Individual and Dual Sports - Tennis
(1 credit)
This course provides instruction and participation in tennis in order to develop the student's fitness, skills, knowledge, and appreciation.(3 lab hours per week).

PHED 1102, 1112
Individual and Dual Sports - Karate
(1 credit)
This course provides instruction and participation in karate in order to develop the student's fitness, skills, knowledge, and appreciation. (3 lab hours per week).

PHED 1103, 1113
Individual and Dual Sports-Racquetball
(1 credit)
This course provides instruction and participation in racquetball in order to develop the student's fitness, skills, knowledge, and appreciation. (3 lab hours per week).

PHED 1106, 1116
Individual and Dual Sports - Jogging
(1 credit)
This course provides instruction and participation in jogging in order develop the student's fitness, skills, knowledge, and appreciation. (3 lab hours per week).

PHED 1108, 1118
Individual and Dual Sports - Adaptive Physical Activity
(1 credit)
This course is for students who, for medical reasons, need individual attention concerning their physical activity. Activities will be varied according to individual needs as determined by instructor, student, and student's physician. This course may be repeated once for credit. (3 lab hours per week).

PHED 1109, 1119
Individual and Dual Sports - Defensive Measures for Women
(1 credit)
This course provides instruction and participation in the areas of crime victimization, basic defensive measures, firearms familiarization and related laws. (3 lab hours per week).

PHED 1120, 1121
Volleyball
(1 credit)
This course consists of instruction and participation in both beginning and advanced volleyball. (3 lab hours per week).

PHED 1122, 1123, 2122, 2123
Physical Fitness and Weight Training
(1 credit)
This course includes a study of basic fundamental skills and techniques of an overload, strength, and conditioning program. (3 lab hours per week)

PHED 1124, 1130
Fundamentals of Movement - Aerobic Dance
(1 credit)
This course provides instruction and participation in aerobic dance, and it includes a brief study of the history and philosophy of the dance. (3 lab hours per week).

PHED 1132, 1133
Bowling
(1 credit)
This course meets the needs of both the beginning and the advanced bowler. After a four-week instruction period, a class league forms with students receiving experience in league etiquette, procedures, scoring, etc. (3 lab hours per week).

PHED 1134, 1136
Aerobic Exercise
(1 credit)
This course consists of a planned program of exercise to provide a condition of fitness and figure improvement through increased cardio-vascular activity and large muscle exercise. (3 lab hours per week).

PHED 1135, 1137
Hi-Lo/Step/Cardio Dance
(1 credit)
This course consists of a planned program that utilizes Hi-Lo Aerobics, Step Aerobics and Cardio-Dance in an effort to provide improvement in overall aerobic fitness through increased cardio respiratory activity and large muscle exercise. (3 lab hours per week).

PHED 1138, 1148, 2138, 2148
Fitness Walking
(1 credit)
This course provides instruction and participation in powerwalking in order to develop the student's fitness, skills, knowledge, and appreciation of the sport. (3 lab hours per week)

PHED 1139, 1149
Golf
(1 credit)
This course provides instruction and participation in golf in order to develop the student's fitness, skills, knowledge, and appreciation of the sport. (3 lab hours per week)

PHED 1140, 2140
Pilates
(1 credit)
This course consists of a planned program that uses the Pilates method in an effort to improve the individual's core strength. This unique method of body conditioning will strengthen and tone muscles, improve posture and provide better flexibility and balance.(3 lab hours per week).

PHED 1145
Horsemanship
(1 credit)
This course is for students who are interested in learning more about the art of riding, handling, training and caring for horses. (3 lab hours per week)

PHED 1146, 2146
Cardio Kickboxing - Individual and Dual Sports
(1 credit)
This course provides instruction and participation in kickboxing in order to develop the student's fitness skills, knowledge and appreciation (3 lab hours per week).

PHED 1147, 1157
Basketball
(1 credit)
This course consists of instruction and participation in both beginning and advanced basketball. (3 lab hours per week).

PHED 1150, 2150
Individual and Dual Sports - Fitness & Wellness
(1 credit)
This course provides instruction and participation in a complete lifetime fitness program to achieve total well being. (3 lab hours per week).

PHED 2108, PHED 2109
Stretch, Tone and Sculpt
(1 credit)
This course consists of a planned program of toning and conditioning exercises that incorporate resistance in an effort to improve muscular strength, endurance and flexibility. (3 lab hours per week).

PHED 2110, 2111
Boot Camp
(1 credit)
Boot camp fitness workouts include, but are not limited to, cardiovascular conditioning, speed, endurance, partner resistance, and different types of strength training. This course also includes fitness group challenges, kickboxing, medicine ball drills, obstacle course, and other core strength training. All activities are structured so that you can choose the appropriate intensity for your fitness level. (3 lab hours per week).

PHED 2113, 2115
Dance
(1 credit)
Ballroom - This course includes the basic steps for popular European, Latin, and American ballroom dances. The history of ballroom dance and the

relationships between dance styles and other cultures are also studied. (3 lab hours per week).

Hip Hop - This course provides instruction and participation in hip hop, and also includes a brief study of the history and philosophy of dance. (3 lab hours per week).

Jazz - This course provides instruction and participation in jazz and also includes a brief study of the history and philosophy of dance. (3 lab hours per week).

Latin Club Dance - This course provides instruction and participation in learning Salsa patterns, Bachata Merengue, Cha Cha, Rumba, and Mambo as well as exploring the music and rhythm of each dance. (3 lab hours per week).

ADVANCED SPORTS

[Each course may be repeated once each, for a maximum total of 4 credits for each sport.]

PHED 2100, 2101, 2117, 2118
Advanced Baseball
(1 credit each)
These courses are for advanced baseball players. (3 lab hours per week).

PHED 2102, 2103, 2119, 2120
Advanced Fast-Pitch Softball
(1 credit each)
These courses are for advanced fast-pitch softball players. (3 lab hours per week).

THEORY COURSES

PHED 1301
Introduction to Physical Fitness & Sport
(3 credits)
Designed for professional orientation in sports and human performances, health, and recreation, and includes a brief history and study of the philosophy and modern trends of health and human performance, teacher qualification, vocational opportunities, and skill testing. (3 lecture hours per week). **[CB31.0501.5223]**

PHED 1304
Personal Community Health I
(3 credits)
This course investigates the principles of practices in relation to personal and community health. (3 lecture hours per week). **[CB51.1504.5116]**

PHED 1306
First Aid
(3 credits)
Theory and practice used in the standard and advanced courses of the American Red Cross in first aid and home and farm safety. (3 lecture hours per week). Prerequisite: DIRW/DIRR 0309 or READ 0309. **[CB51.1504.5316]**

PHED 1308
Sports Officiating I
(3 credits)
This course provides instruction in rules, interpretation, and mechanics of officiating selected sports. (3 lecture hours per week). Prerequisite: DIRW/DIRR 0309 or READ 0309. **[CB31.0101.5123]**

PHED 1321
Coaching/Sports/Athletics I
(3 credits)
This course explores the history, theories, philosophies, rules, and terminology of competitive sports. (3 lecture hours per week). **[CB31.0505.5123]**

PHED 1322
Coaching/Sports/Athletics II
(3 credits)
This course explores the history, theories, philosophies, rules, and terminology of competitive sports. (3 lecture hours per week). **[CB31.0505.5123]**

PHED 1338
Concepts of Physical Fitness
(3 credits)
Concepts and use of selected physiological variables of fitness, individual testing and consultation, and the organization of sports and fitness programs. (3 lecture & 3 lab hours per week) Prerequisite: DIRW/DIRR 0309 or READ 0309 **[CB 31.0101.5123]**

PHED 1346
Drug Use and Abuse
(3 credits)
A study of the use and abuse of drugs in today's society. Emphasizes the physiological, sociological and psychological factors. (3 lecture hours per week). **[CB51.1504.5216]**

Welding

WLDG 1323
Welding Safety Tools and Equipment
(3 credits)
An introduction to welding careers, equipment and safety practices, including OSHA standards for industry. (3 lecture hours per week). Co-requisites: WLDG 1407, 1413, 1521. **[CIP.48.0508]**

WLDG 1407
Introduction to Welding Using Multiple Processes
(4 credits)
Basic welding techniques using some of the following processes: Oxy-fuel welding (OFW) and cutting, shielded metal arc welding (SMAW), gas metal arc welding (GMAC), and gas tungsten arc welding (GTAW). (1 lecture and 9 lab hours per week). Co-requisites: WLDG 1323, 1413, 1521. **[CIP.48.0508]**

WLDG 1413
Introduction to Blueprint Reading for Welders
(4 credits)
A study of industrial blueprints. Emphasis placed on terminology, symbols, graphic description, and welding processes. Includes systems of measurement and industry standards. Also includes interpretation of plans and drawings used by industry to facilitate field application and production. (4 lecture hours per week). Co-requisites: WLDG 1323, 1407, 1521. **[CIP.48.0508]**

WLDG 1521
Welding Fundamentals
(5 credits)
An introduction to the fundamentals of equipment used in oxy-fuel and arc welding, including welding and cutting safety, basic oxy-fuel welding and cutting, basic arc welding processes and basic metallurgy. (3 lecture and 5 lab hours per week). Co-requisites: WLDG 1323, 1407, 1413. **[CIP.48.0508]**

Texas Department of Criminal Justice (TDCJ)

Alvin Community College has conducted educational programs for the Texas Department of Criminal Justice since 1965. In addition to the Associate of General Studies and Associate of Applied Science degrees, technical Certificate of Completion Programs are offered.

Associate of Applied Science Degree Programs

Computer Technology
Culinary Arts
Human Services
Industrial Design
Management

Certificate Programs* *(Courses offered only at the Texas Department of Criminal Justice)*

Automotive Technology
Computer Technology
Culinary Arts
Human Services
Industrial Design
Management

These certificate programs are designed to provide skills which enable the student to be placed in entry-level employment within a chosen specialty.

Automotive Technology

David Garza

All AUMT courses are under [CIP 47.0604]

AUMT 1310
Automotive Brake Systems
(3 credits)
Operation and repair of drum/disc type brake systems. Topics include brake theory, diagnosis, and repair of power, manual, anti-lock brake systems, and parking brakes. (1 lecture and 4 lab hours per week)

AUMT 1405
Introduction to Automotive Technology
(4 credits)
An introduction to the automotive industry including automotive history, safety practices, shop equipment and tools, vehicle subsystems, service publications, professional responsibilities, and basic automotive maintenance (2 lecture and 5 lab hours per week)

AUMT 1407
Automotive Electrical Systems
(4 credits)
An overview of automotive electrical systems including topics in operational theory, testing, diagnosis, and repair of charging and starting systems, and electrical accessories. Emphasis on electrical principles schematic diagrams, and service manuals. (2 lecture and 5 lab hours per week)

AUMT 1419
Automotive Engine Repair
(4 credits)
Fundamentals of engine operation, diagnosis and repair. Emphasis on identification, inspection, measurements, disassembly, repair, and reassembly of the engine. (2 lecture and 5 lab hours per week)

AUMT 1445
Automotive Climate Control Systems
(4 credits)
Diagnosis and repair of manual/electronic climate control systems; includes the refrigeration cycle and EPA guidelines for refrigerant handling. (2 lecture and 7 lab hours per week)

AUMT 2328
Automotive Service
(3 credits)
Mastery of automotive service including competencies covered in related courses.
(1 lecture and 7 lab hours per week)

AUMT 2417
Automotive Engine Performance Analysis I
(4 credits)
Theory, operation, diagnosis of drivability concerns, and repair ignition and fuel delivery systems. Use of current engine performance diagnostic equipment. (2 lecture and 6 lab hours per week)

Computer Technology

Michael Smith

Refer to page 135 for the following course descriptions:

COSC 1301 Introduction to Computing
COSC 1437 Programming Fundamentals II - C++
COSC 2420 Advanced Computer Programming -C++
IMED 2415 Web Design
ITMT 1302 Windows Seven Configuration
ITNW 1325 Fundamentals of Networking
ITNW 1358 Network+
ITSC 1305 Introduction to PC Operating Systems
ITSC 1325 Personal Computer Hardware
ITSC 1301 Introduction to Computers
ITSE 1407 Introduction to C++ Programming
ITSE 1422 Introduction to C Programming
ITSE 2409 Database Programming
ITSE 1431 Introduction to Visual BASIC Programming
ITSE 2449 Advanced Visual BASIC Programming

Culinary Arts

Rosemary Bowen

Refer to page 142 for the following course descriptions:

CHEF 1291 Current Events in Culinary Arts
CHEF 1401 Basic Food Preparation
CHEF 1302 Principles of Health Cuisine
CHEF 1305 Sanitation and Safety
CHEF 1365 Practicum
CHEF 1400 Professional Cooking and Meal Service
CHEF 1440 Meat Preparation and Cooking
CHEF 1464 Practicum
CHEF 2302 Saucier
IFWA 1310 Nutrition and Menu Planning
IFWA 1305 Food Service Equipment & Planning
IFWA 1527 Food Preparation II
IFWA 2446 Quantity Procedures
PSTR 1301 Fundamentals of Baking

Industrial Design

Larry Huffman

Refer to page 152 for the following course descriptions:

ARCE 1452 Structural Drafting
DFTG 1405 Technical Drafting
DFTG 1409 Basic Computer-Aided Drafting
DFTG 1433 Mechanical Drafting
DFTG 2406 Machine Design
DFTG 2419 Intermediate Computer-Aided Drafting
DFTG 2423 Pipe Drafting
DFTG 2440 Solid Modeling/Design
DFTG 2445 Advanced Pipe Drafting
ENTC 1423 Strength of Materials
POFI 1204 Computer Fundamentals
TECM 1317 Technical Trigonometry

Human Services

Jerry Carrier

Refer to page 150 for the following course descriptions:

DAAC 1304 Pharmacology of Addiction
DAAC 1305 Co-Occuring
DAAC 1309 Assessment Skill of Alchohol and Other Drug Addictions
DAAC 1311 Counseling Theories
DAAC 1317 Basic Counseling Skills
DAAC 1391 Special Topics in Alcohol and Drug Abuse Counseling
DAAC 2306 Substance Abuse Prevention
DAAC 2307 Addicted Family Intervention
DAAC 2341 Counseling Alcohol and Other Drug Addictions
DAAC 2343 Current Issues
DAAC 2354 Dynamics of Group Counseling
GERS 1301 Introduction to Gerontology
SCWK 1313 Introduction to Social Work

Management

Susan Weatherford

Refer to page 153 for the following course descriptions:

BMGT 1327 Principles of Management
BMGT 1345 Communication Skills for Managers
BMGT 2303 Problem Solving and Decision Making
BUSG 2309 Small Business Management
HRPO 1311 Human Relations
HRPO 1391 Special Topics in Human Resources
HRPO 2301 Human Resources Management
MRKG 1301 Services Marketing/Management
MRKG 1311 Principles of Marketing
MRKG 2349 Advertising & Sales Promotions of Selling

Continuing Education Workforce Development

Purpose
The Continuing Education Workforce Development Department, located in Building H provides job training and educational opportunities in several categories: Workforce Training Programs, GED, Corporate Customized Training, Safety Education, Senior Adults, Special Interest and Youth Enrichment courses.

General Information
The Alvin Community College Board of Regents establishes tuition and fees for noncredit classes. For more information concerning the Continuing Education Workforce Development course offerings please call 281-756-3787 or visit us online at www.alvincollege.edu/cewd.

Day and evening classes are offered. Check the current schedule for specific times and locations. Those who have program and course ideas should contact the office of the Dean of Continuing Education Workforce Development at 281-756-3789.

Adult Basic Education
GED (General Educational Development). This GED Comprehensive Preparation class readies the student to take and pass the GED test. Instruction focuses on the four (4) content areas of the GED test: reading/writing, mathematics, science, and social studies. Textbook and official GED calculator required (Texas Instruments TI-30XS Multi-view).

GED classes are available to 17 year olds, as well as, 16 year olds who are court ordered. Before being allowed to attend class, underage students and a parent or legal guardian must meet with the program coordinator and agree to certain classroom rules before being allowed to register. Call 281-756-3995 to set up an appointment.

Workforce Certificate Programs

Career Training
Computer Training
Professional Development
Helicopter Pilot Training
Human Resources

Corporate Training
The Continuing Education Workforce Development Department of Alvin Community College responds to the specific needs of local business and industry in the area of Workforce Development. The Corporate Training staff will respond efficiently and customize the training to meet your companies' needs through a strong network of consultants and trainers. Call 281-756-3787 for more information. CEWD provides a full range of Training services including, but not limited to:

-Training needs analysis
- Competency modeling
- Skills assessment
- Soft Skills training
- Technical skills training
- Business Computer Skills

Health Care Training
Providing top-quality training for individuals wanting to enter the medical field or those needing continuing education units for maintaining their professional licenses. Call 281-756-3787.
Specific areas regularly offered are listed below.

Activity Director
Aesthetic Laser Technician
Clinical Medical Assistant (CMA)
Certified Nursing Assistant (CNA)
CPR
Dental Assistant
Home Healthcare Aide
Massage Therapy
Medical Office Professional
Medication Administration
Medication Administration for Nurse Aide & Annual Update
Non-Certified Radiological Technician
Phlebotomy
Professional Medical Coding
Veterinary Assistant

Industrial Training

CNC/Machinist - Students gain hands-on experience from milling and turning to CNC skills training that is necessary to enter the workforce. Try a Free CNC Maching Workshop offered monthly. Call 281-756-3670.

Commercial Truck Driving - This four week program consists of day and evening classes and hands-on training designed to prepare the student to take the Commercial Driver's License exam. Call 281-756-3819.

Welding - This 420 hour Job Training Certificate offers a variety of courses designed to help students start or continue a career in welding. The program adheres to the quality standards set forth by the American Welding Society and the American Society of Mechanical Engineers. Call 281-756-3671.

Information Technology
Growing changes in the computer and information technology field makes computer skills a must in today's job market. Call 281-756-3904 for information. IT offers the following courses:
Computer Business Fundamentals
Computer Job Skills Program
Introduction to Computers
Introduction to Photoshop
MS Access
MS Excel
MS Outlook
MS PowerPoint
MS Word
QuickBooks and much more

Online Learning
Activity Director
Command Spanish
Computer Technician
Ed2go – Career Training
Ed2go – Instructor-Led Courses
Ed2go – Corporate Training
Escoffier Culinary Program
Medical Administrative Assistant
Medical Coding & Billing
Medical Terminology
Medical Transcription
Pro-School - Mortgage and Insurance
360 Training – Career, Compliance and Licensing
Career Web School – Real Estate Licensing
For more information call 281-756-3787.

Life Long Learning – On ACC Marketplace

Senior Adult
Alvin Community College Education and Senior Services (ACCESS) for individuals 50 years of age and over, offers many courses, activities, and trips. Call 281-756-3729.

Safety Education
Concealed Handgun License
Motorcycle Safety

Special Interest
Community & personal enrichment opportunities are offered throughout the year. Suggestions for additional offerings are welcomed! Call 281-756-3787.

Some regular offerings include:
Cardio Kickboxing
Karate
L.E.A.R.N.
Lifestory Writing
Senior Adult
Yoga

Youth
A variety of educational opportunities are offered for the youth of the community. Summer classes are offered through Busy Bodies Kids College for ages 4 to 14. Call 281-756-3729. Other year round activities include Karate ages 5+. Call 281-756-3787 for more information.

NEW PROGRAMS AND COURSES ARE ADDED BASED ON DEMAND

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Cheryl Knape
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'Bel Sanchez
Doyle Swindell

Dr. Christal M. Albrecht,
President, Alvin Community College

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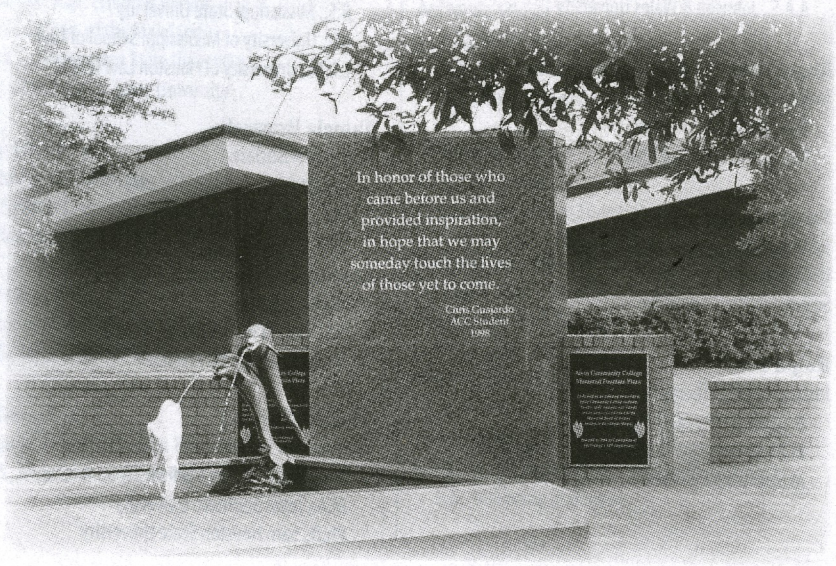
Gerald Skidmore
Dean of Instruction, Student & Community Services, Emeritus

In Memoriam

The Alvin Community College memorial fountain is dedicated to all who have influenced the lives of others through service to the college.



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GENERAL INDEX

EDUCATIONAL PROGRAMS

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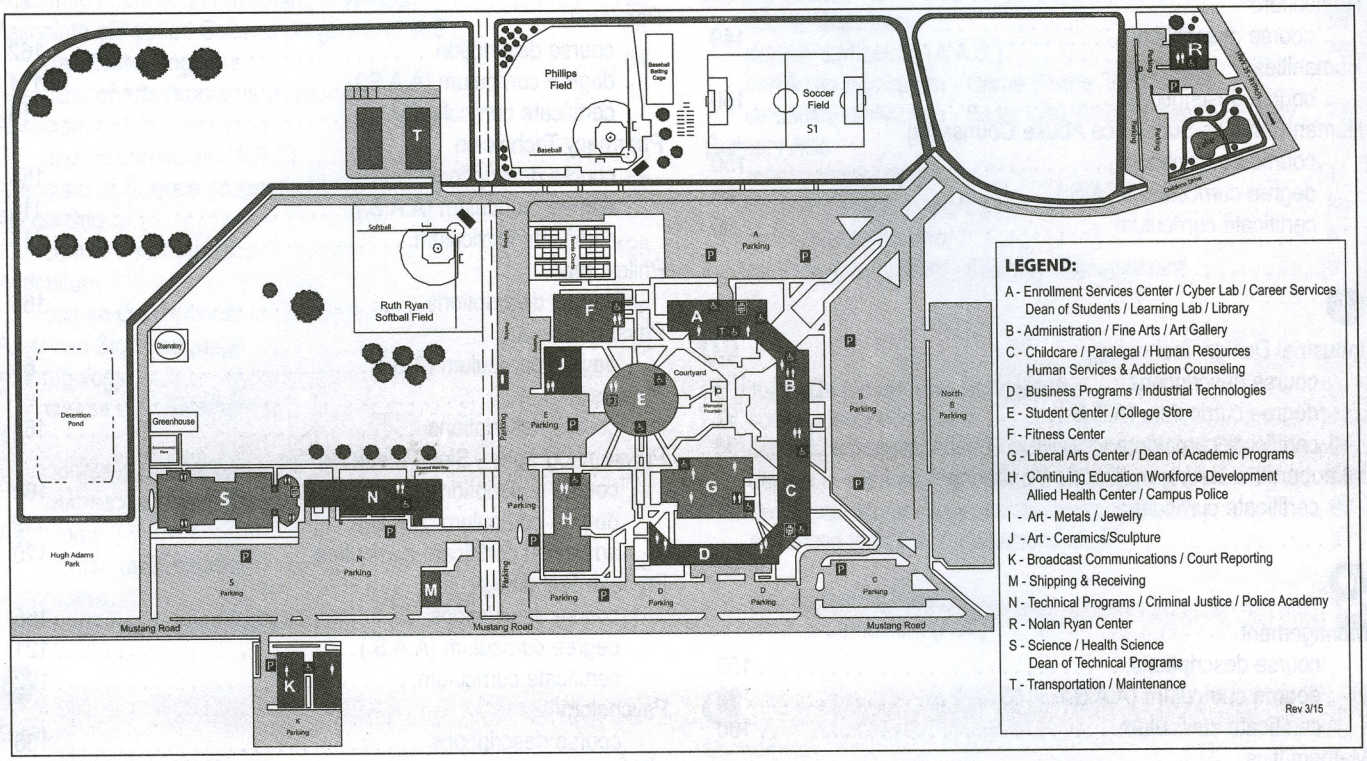
ACC
ALVIN COMMUNITY COLLEGE

CAMPUS MAP



How to Reach
Alvin Community College
3110 Mustang Road • Alvin, Texas 77511

Alvin Community College is located 25 miles south of Houston and 30 miles north of Galveston on Hwy 35 ByPass in Alvin, Texas.

From Houston: Take Hwy 35 south; or take I-45 south to Webster, then FM 528 west and Hwy 35 ByPass south; or take Hwy 288 south to Manvel, then Hwy 6 east and Hwy 35 ByPass south.

From Galveston: Take Hwy 6 to Hwy 35 ByPass south.

From points south: Use Hwy 35 north.

How to Reach
Alvin Community College
at Turner - Pearland
4717 Bailey Rd. • Pearland, Texas 77584

From Houston:
I-45 south to Dixie Farm Rd, right on 35 north then left to Bailey Rd; **or** 288 south, exit at CR 58, make u-turn at Croix Rd and exit at Bailey Rd / CR101; **or** Take I-45 south to Hwy 35 south then right on Bailey Road.

From Galveston:
Take Hwy 6 north to Hwy 35 Bypass north then left on Bailey Rd.

From points south: Use Hwy 35 north.