COLLEGE CATALOG | 2013-2015







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An Equal Opportunity Institution STATEMENT OF NONDISCRIMINATION POLICY

It is the policy of the College that no person shall, on the basis of race, color, creed, sex, national origin, age-disability, sexual orientation (defined exclusively as heterosexuality, homosexuality, or bisexuality), or genetic information be subjected to any discrimination prohibited by the Civil Rights Act of 1964, as amended; the Age Discrimination in Employment Act, as amended; Americans with Disabilities Act, as amended; Section 504 of the Rehabilitation Act of 1973: Title IX of the Educational Amendments of 1972: the Genetic Information Nondiscrimination Act of 2008 and other applicable laws, regulations and Executive Orders, This policy applies to recruitment, employment and subsequent placement, training, promotion, compensation, continuation, probation, discharge and other terms and conditions of employment over which the College has jurisdiction as well as to all educational programs and activities.

The College has designated a Civil Rights Coordinator, who serves as the College's Title IX Coordinator and the College's ADA/Section 504 Coordinator, to carry out its commitment to equal opportunity and nondiscrimination. Inquiries or complaints by students or employees regarding the College's nondiscrimination policies may be addressed to:

Dr. Valencia 'Lynn' Beaty

Assistant Vice President for Civil Rights Office of the President P.O. Box 897 Dover, DE 19903 (302) 857-1903 civilrights@dtcc.edu

POLICY STATEMENT ON SEXUAL HARASSMENT

All students have a right to attend the College in an environment that is free of discrimination and sexual harassment. Therefore, it is the policy of the College that no student may sexually harass another member of the College community while present on any property owned or controlled by the College or while participating in any College-related activity or event.

Unwelcome sexual advances, requests for sexual favors, and other verbal, written, or physical conduct of a sexual nature constitute sexual harassment when:

- **1.** Submission to such conduct is made either explicitly or implicitly a term or condition of an individual's education; or
- 2. Submission to or rejection of such conduct by an individual is used as the basis for academic decisions affecting that individual; or
- **3.** If non-physical, such conduct is so severe, pervasive, and objectively offensive that the victim is effectively denied equal access to the College's resources and opportunities.

Sexual harassment may involve individuals of the same or different gender. Sexual harassment is most frequently associated with those situations in which a power differential exists between persons involved; however, it also may occur between individuals of the same College status, i.e., student-student.

The College is also committed to the principles of free expression and academic freedom. Delaware Tech encourages academic exploration and recognizes that our campuses contribute to the marketplace of ideas. Consistent with the College's academic mission, this Student Sexual Harassment Policy is not intended to restrict student speech protected by the First Amendment to the Constitution in the academic setting. However, non-physical expressive activity that is so severe, pervasive, and objectively offensive that the victim is effectively denied equal access to the College's resources and opportunities is not legally protected and does not promote free inquiry on our campuses.

Examples of severe and pervasive non-physical conduct, which may constitute sexual harassment when such expression is so objectively offensive that it denies the victim equal access to the College's resources and opportunities include, but are not limited to:

- 1. Unwelcome sexual advances, requests for sexual favors, or other non-physical conduct of a sexual nature;
- 2. Sexually explicit statements, comments, questions, pictures, objects, jokes, or anecdotes;
- 3. Unwelcome use of the electronic mail or telephone communication system to communicate prohibited conduct or activities; or
- 4. Graphic comments about a person's clothing or body.

However, physical conduct, such as unwelcome touching, patting, hugging, and sexual assault, is not protected under free speech principles and need not be repeated in order to constitute sexual harassment. Thus, physical conduct of a sexual nature results in sexual harassment when it is unwelcome, intentional, and so severe and/or pervasive that it denies the victim equal access to the College's resources and opportunities under the circumstances presented.



Sexual harassment is a violation of the Student Rights and Standards of Student Conduct Policy and will not be tolerated by the College. Sexual harassment complaints involving a student will be resolved according to the Procedure for the Resolution of Student Sexual Harassment Complaints as contained in the Student Handbook.

Any student that violates this Policy will be subject to disciplinary action including, but not limited to, dismissal from the College. In addition, the College reserves the right to notify law enforcement authorities of incidents of sexual harassment alleged to have occurred on any property owned or controlled by the College or during any College-related activity or event upon reasonable belief that such incidents rise to the level of criminal activity.

PROCEDURE FOR THE RESOLUTION OF STUDENT SEXUAL HARASSMENT COMPLAINTS

It is the policy of the College that no student may sexually harass another member of the College community while present on any property owned or controlled by the College or while participating in any College-related activity or event. The College does not tolerate sexual harassment and is firmly committed to resolving sexual harassment complaints in a prompt and equitable manner.

As a result, the College has adopted the following procedures to provide an internal mechanism to resolve sexual harassment complaints. These procedures shall be utilized whenever a student is accused of sexual harassment by another student, employee, or third party in violation of the College's Policy Statement on Student Sexual Harassment. Employees who are accused of sexually harassment by a student shall be subject to the Procedure for the Resolution of Sexual Harassment Complaints Against An Employee as contained in Section XIII of the College's Personal Policy Manual.

No individual shall be subject to retaliation at any time for making a claim of sexual harassment or for participating in these procedures. It is a violation of College policy for any member of the College community to retaliate against the Complainant, any individual who participates in any sexual harassment investigation or proceeding, or against the Respondent who has been accused of engaging in sexual harassment. While all sexual harassment allegations will be reviewed in accordance with these procedures, the College Community is advised that a claim of sexual harassment is not proof of prohibited conduct. Anyone

who believes that he/she has been subject to retaliation arising from sexual harassment allegations is encouraged to report such behavior to a College official as set forth below. Students accused of engaging in retaliatory conduct shall be subject to the College's Student Rights and Standards of Student Conduct Policy and the disciplinary action set forth therein, up to and including dismissal from the College.

Making a false or malicious accusation of sexual harassment and/or retaliation is also prohibited by the College. A student who is found to have made an allegation of sexual harassment against another student or employee that is intentionally false, or made in reckless indifference or disregard for the truth, shall be subject to the College's Student Rights and Standards of Student Conduct Policy and the disciplinary action set forth therein, up to and including dismissal from the College.

Additionally, at any stage of these procedures, the Dean of Student Affairs at the campus where the alleged sexual harassment and/or retaliation is alleged to have occurred (hereinafter the "Dean") shall have the authority to take any and all reasonable steps necessary to protect all parties involved under these procedures from harassment and retaliation. The occurrence or non-occurrence of any protective measure initiated by the Dean is neither an indicia of guilt nor innocence under these procedures. Any such steps taken by the Dean to protect members of the College community from harassment and retaliation shall be final pending the resolution of the allegation as set forth under these procedures.

Furthermore, these procedures, and all aspects thereof, will be kept confidential to the maximum extent provided by state and federal law, including, but not limited to, the Family Educational Rights and Privacy Act ("FERPA"). The College will take all reasonable steps to investigate and respond to complaints in a confidential manner. Complainants, however, are advised that the College's ability to investigate and to respond to complaints may be limited in circumstances where the Complainant does not wish to disclose his or her identity. The College reserves the right to notify law enforcement authorities about allegations of sexual harassment upon reasonable belief that such incidents rise to the level of criminal activity. The use of these procedures does not preclude a Complainant from seeking recourse through the appropriate state or federal criminal law enforcement agencies at any time. College personnel will assist the Complainant in notifying these authorities in the event that the Complainant requests such assistance.

Reporting Procedures

The College encourages any student who believes that he/she has been a victim of sexual harassment at the College to report the offensive conduct to a College



official as soon as possible. For purposes of these procedures, a College official shall include any faculty member, academic counselor, administrator, or Public Safety Officer on the campus where the conduct is alleged to have occurred. Students may also contact the College's Civil Rights Coordinator to report incidents of alleged sexual harassment.

The College's Civil Rights Coordinator shall be notified of all claims of sexual harassment involving a student as soon as reasonably practical. The Civil Rights Coordinator shall promptly appoint a Sexual Harassment Review Officer ("Review Officer") from the campus where the conduct is alleged to have occurred to investigate the claim. The Review Officer shall advise the alleged offender that a complaint of sexual harassment has been filed against him/her and explain the College's prohibition against retaliation. The Review Officer shall document receipt of the complaint by letter or other written communication to the alleged offender and to the Complainant, a copy of which shall also be provided to the Dean and to the College's Civil Rights Coordinator. The Review Officer shall investigate the complaint to determine whether or not there are sufficient grounds to support a charge of sexual harassment as set forth in the College's Policy Statement on Student Sexual Harassment. The Review Officer shall encourage and/or assist the Complainant to reduce his/her claims to writing, which shall serve as the basis for the complaint of sexual harassment. Whenever possible, the investigation shall include interviews with both parties involved in the complaint and/or may include interviews with individuals who may have observed the alleged conduct or may have relevant knowledge of the incident. The Review Officer shall also have access to such written documents in the possession of the College, including student records, that he/she believes may contain relevant information or which may lead to the discovery of relevant information.

The Review Officer shall make a written determination regarding whether or not sufficient evidence exists which, if true, would constitute sexual harassment. All evidence shall be viewed by the Review Officer in the light most favorable to the Complainant when making the determination of whether or not a claim has been stated or substantiated. The determination shall be made within ten (10) working days following the Review Officer's appointment, include the grounds and findings upon which the determination was based, and be delivered to the parties, the Dean, and the College's Civil Rights Coordinator. In extenuating circumstances, including but not limited to those incidents that require evidence gathering by law enforcement officials, the Review Officer may extend the ten (10) working day deadline to make the determination. The parties, as well as the Civil Rights Coordinator, shall be notified in writing by the Review Officer about the reasons for the delay and the time frame in which the determination shall be made.

The Complainant may appeal a determination that insufficient evidence exists to support a claim of sexual harassment to the Civil Rights Coordinator. An appeal must be submitted in writing within ten (10) working days following the date of the Review Officer's determination. The decision of the Civil Rights Coordinator regarding the sufficiency of the allegations, or the evidence in support thereof, shall be final.

In the event the Civil Rights Coordinator determines that further proceedings are warranted, the Complainant shall be offered the opportunity to mediate the claim or to have the matter submitted to the Dean for a Sexual Harassment Review Committee Hearing.

Note: Mediation is not required to resolve a sexual harassment complaint. The Complainant may end mediation at any time in favor of a Sexual Harassment Review Committee Hearing. In addition, mediation is not available to resolve claims involving allegations of sexual violence as defined by state and/or federal law.

Mediation

Mediation is an informal and confidential way for the parties to resolve the complaint with the help of the Review Officer. The Review Officer will not decide who is right or wrong or issue a decision. Instead, the Review Officer will help the parties work out their own voluntary solution to the complaint.

Mediation should begin as soon as reasonably practical following an election by the Complainant but in no event greater than 10 working days absent agreement by the Complainant or extenuating circumstances that make commencement of the process impractical within the 10 day limit. Except as limited by the foregoing, in the event efforts to mediate do not begin within 10 working days, then the matter shall proceed to a Sexual Harassment Review Committee Hearing. Examples of such mediated options include, but are not limited to:

- **A.** One or more meetings between the Complainant and the Respondent, mediated by the Review Officer, to discuss and resolve the alleged sexual harassment to the satisfaction of both parties.
- **B.** In the event that the Complainant does not wish to confront the Respondent, one or more meetings in which the Review Officer meets separately with the Complainant and the Respondent to discuss options to resolve the matter. The Review Officer shall notify the parties in writing if a settlement is reached, and shall attach a proposed form of agreement for signature. The failure or refusal of a party to execute the agreement within a reasonable time shall result in the matter proceeding to a Sexual Harassment Review Committee Hearing.



C. An agreement between the parties and delivered in writing to the Review Officer containing: 1) a statement describing the alleged sexual harassment and requesting that such alleged conduct stop, signed by the Complainant; and 2) and acknowledgement of the complaint without admission of guilt and affirmation that the Complainant will not be the subject of sexual harassment in the future, signed by the Respondent.

Mediation may be discontinued: at any time by the Complainant; by the Review Officer, when he/she feels that further efforts will be non-productive; or when a voluntary agreement has been reached. The Review Officer shall prepare a written report documenting the success or failure of mediation to the Civil Rights Coordinator, the Dean, and the parties. If the mediation results in a voluntary settlement, a copy of the agreement, signed by the parties, shall be included, together with a statement that the College considers the matter to be closed. In the event that mediation resolves the matter, all documentation arising out of the allegation of sexual harassment, including the mediation agreement shall be separated from the student's educational file. In the event mediation is unsuccessful, the matter shall proceed to a Sexual Harassment Review Committee Hearing.

Sexual Harassment Review Committee Hearing

A Sexual Harassment Review Committee shall hear and determine claims of sexual harassment against a student in situations where mediation is not available, unsuccessful, or declined by the Complainant. The Committee shall consist of the Civil Rights Coordinator, who shall serve as the Committee Chairperson, one Sexual Harassment Review Officer on the campus who was not involved in the investigation of the allegation; and the Dean.

The College Civil Rights Coordinator shall provide written notice to the parties of the date, time, and place for the Sexual Harassment Review Committee hearing. Such notice shall also include the following:

- A copy of the complaint or a summary of the allegations;
- 2. A copy of the Review Officer's report; and
- 3. A summary of the rules that will govern how the hearing will be conducted.

Absent extenuating circumstances, or an agreement by the parties, the hearing shall take place within ten (10) working days following receipt of notification from the Review Officer that mediation was unsuccessful, unavailable or declined by the Complainant. The role of the Committee shall be to hear and consider testimony and other relevant, reliable evidence and make findings of fact related thereto. In addition, the Committee shall be charged with determining by a preponderance of the evidence whether or not a violation of the College's Policy Statement on Student Sexual Harassment has

occurred.

The Committee shall submit a written report to the parties setting forth the findings of fact and its determination as to whether a violation of the College's Policy Statement on Student Sexual Harassment has occurred within five (5) working days following the conclusion of the hearing. In the event a violation is found to have occurred, the report shall also include a recommendation of appropriate relief and/or disciplinary action, up to and including dismissal from the College.

The Committee's decision may be appealed by either party to the Vice President and Campus Director at the campus where the conduct is alleged to have occurred (hereinafter the "Campus Director"). The Committee's decision shall be final unless a timely appeal is made by one or both parties. A recommendation that the Respondent be dismissed from the College shall automatically be reviewed by the Campus Director.

Either party may appeal the Committee's decision, or any recommended relief and/or disciplinary action contained therein. All appeals shall be made in writing and delivered to the Civil Rights Coordinator within ten (10) working days following the date of the Committee's decision. The Campus Director's decision to affirm, deny, or modify the Committee's recommendations and determinations shall be based upon the record of the proceedings made by the Review Committee. All such decisions by the Campus Director are final and shall be delivered in writing to the parties within ten (10) working days following receipt of the appeal.

In the event that a violation of the College's Policy Statement on Student Sexual Harassment is determined through this hearing process, all documentation arising out of the allegation of sexual harassment, including any and all resulting disciplinary action imposed to resolve the matter, shall be maintained in the student's educational file.

GUIDE TO REQUESTING ACADEMIC ACCOMMODATIONS AND/OR AUXILIARY AIDS

GETTING STARTED

Delaware Technical and Community College is committed to providing reasonable academic adjustments for students with disabilities which may include auxiliary aids and/or accommodations that do not alter a fundamental requirement of our academic programs. Since every disability manifests itself differently in each individual, every attempt will be made to tailor all academic adjustments to meet individual needs. Students with disabilities who wish to



request academic adjustments must see the campus ADA contact. The campus ADA contact will evaluate the request and engage in an interactive process to determine what, if any, academic adjustments are warranted. Students seeking academic adjustments must request the same at least 4 weeks prior to the start of each semester for which academic adjustments are sought. Academic adjustments requested by students who fail to follow these procedures may be denied or may not be available prior to the start of classes.

CAMPUS ADA CONTACTS

The following individuals are the ADA contacts for their respective campuses. They will assist you in fulfilling the requirements to obtain reasonable and necessary academic adjustments.

Dover

Charles Mundell (302) 857-1349 cmundell@dtcc.edu

Georgetown

Carla Tingle (302) 259-6045 ctingle3@dtcc.edu

Stanton

Heather M. Statler (302) 454-3927 hstatler@dtcc.edu

Wilmington

Victoria Chang (302) 434-5553 vchang1@dtcc.edu

In addition, inquiries or complaints pertaining to this Guide may be addressed to the College's Civil Rights Coordinator, who serves as the College's ADA/Section 504 Coordinator, at the following:

Dr. Valencia 'Lynn' Beaty

Assistant Vice President for Civil Rights Office of the President P.O. Box 897 Dover, DE 19903 (302) 857-1903 civilrights@dtcc.edu

DOCUMENTATION

Students should provide the campus ADA contact with documentation of their disability. This information may include diagnosis of disability, functional limitations, psycho-education testing results, most recent IEP (if available), and any other information that may provide insight, clarification or support of the student's condition and how that may impact the student's ability

to perform in an academic setting. Since many types of disability remain unchanged over the course of a student's lifetime, information may be accepted in cases where the campus ADA contact determines in his or her sole discretion that a meaningful interactive process can occur and reasonable adjustments can be approved. In some instances, discussion between the student and the campus ADA contact may be sufficient to determine the appropriate assistance. In other situations, a professional evaluation will be necessary to enable the campus ADA contact to understand how the disability impacts the student's ability to function in a college setting. If documentation is necessary, the student must sign a release authorizing the information to be given to the campus ADA contact. **PROVIDING** THIS DOCUMENTATION IS THE OBLIGATION OF THE STUDENT, AT THE STUDENT'S SOLE EXPENSE.

The student and the campus ADA contact (together with such other parties as may be designated by the Campus ADA Contact) will discuss which academic adjustments are appropriate for the student's individual situation and coursework.

CONFIDENTIALITY

The ADA campus contact will maintain appropriate confidentiality of records or communication, except when disclosure is authorized by the student or by law.

EXAMPLES OF ACADEMIC ADJUSTMENTS PROVIDED BY THE COLLEGE

In providing academic adjustments, we do not lower or effect substantial modifications to essential technology requirements nor do we make modifications that would fundamentally alter the nature of a program.

Examples of the types of academic adjustments which may be provided are as follows:

Accessible Furniture: Providing classroom furniture, which is most appropriate for the student in light of their disability.

Assistive Listening Device: An amplification system designed to help the student hear better by minimizing background sounds and amplifying desired sound.

Clear View/Lip-Reading: The process of viewing the speaker's lips to facilitate communication (requires unobstructed view of the speaker).

Course Reductions which do not fundamentally alter the nature of the program: Students may elect to attend on a part-time basis. Part-time study may impact the length of time to complete program requirements and/or financial aid.



Course Substitutions will be considered so long as the modification does not fundamentally alter the nature of a program.

Early Access to Course Syllabus: Providing the student with a course syllabus prior to the beginning of the term. A student who needs class material in alternate format or who requires additional time to complete reading or writing assignments will benefit from having early access to course requirements. Early access to the course syllabus allows the accommodation process to begin early and reduces chances of delays in services.

Large Print Handouts: Enlarging written material on standard photocopier or word processor to facilitate reading for a student with various processing or sensory impairments.

Note taker/Scribe: Individual assigned to assist a student by recording class lecture notes of instructor's spoken words. The scribe may also assist student to record in-class assignments.

Priority Seating: Allowing the student to choose the class seating arrangement which is most appropriate in light of the disability.

Sign Language Interpreter(s): A person who translates spoken English into American Sign Language (ASL) and vice versa for students with significant hearing loss or deafness. A student using an Interpreter should be allowed to choose classroom seating which is most appropriate for that student's particular need. The college will provide the interpreter; it is not reasonable to expect the College will pay for an interpreter you have used before or currently use on a daily basis.

Tape Recording/Transcribing Lectures: Recording spoken material presented in the classroom using a tape recorder.

Visual Media: Using graphics or other visual methods, such as PowerPoint slides or handouts, to supplement class lecture and spoken information.

The following is a list of testing adjustments which may be made, depending upon the course and the needs of the student:

Alternative Test Design: Changing test format or design to allow the student to demonstrate mastery of course material while minimizing the interference of their disability. For example, one might use a multiple-choice design instead of an essay design.

Alternative Test Location: The student is assigned to take an exam in a mutually agreeable location. Arranged and coordinated by the ADA campus contact.

Computer Usage: Use of a personal computer during testing allowing the student to use a spellchecker, word processing capabilities, or special assistive software required for their specific disability needs.

Distraction - Free Environment: An environment free from noise and other distractions (classroom activities, phones, loud talking, operating machinery) that might interfere with the testing process.

Electronic Speller/Dictionary: An electronic speller is a portable device, which assists the student in spelling correctly.

Extended Time: Additional time given to complete a test. Length of extension varies according to the student's needs and documented disability. The standard time extension is "time and a half."

Individual Test Proctor: Individual assigned to personally administer a test to the student.

Large Print Test: Enlarging tests to provide the student with visual access to the test.

Oral Test: Administering test orally to the student and allowing the student to provide oral responses.

Reader: Individual assigned to read test directions and/or test questions to the student with a disability.

Scribe: Individual assigned to record test responses of the student with a disability but who does not offer assistance with content of test responses.

Sign Language Interpreter(s): A person who translates directions and/or information given during test administration from English into American Sign Language (ASL). It may also include allowing the student to ask questions for further clarification using his/her ASL interpreter during test questions.

Test on Tape: Tape recording test questions so the students can listen to the questions. This might include allowing the student to tape record the answers.

Voice Calculator: A calculator that provides voice output of mathematical data and mathematical processes.

EXAMPLES OF REQUESTS WHICH ARE NOT REASONABLE

The following is a list of services that the college will not provide. This is not an exhaustive list, but rather provides examples of unreasonable requests. The ADA campus contact may be able to provide community referrals to these services, if appropriate.

- 1. Providing personal attendants (aides)
- 2. Feeding students



- 3. Administering and storing of medications
- 4. Assisting with personal hygiene (catheter bags, etc.)
- 5. Writing and proofreading papers
- Tutoring (will be referred to campus tutorial support)
- 7. Psychological counseling
- 8. Storage of medical supplies and equipment (oxygen tanks, wheelchairs, etc.)
- 9. Diagnosis of disability condition
- 10. Providing care for service animals

COMMUNICATION WITH FACULTY

The ADA campus contact will send notification to faculty and campus offices of the academic adjustments that will be provided. Students are encouraged to discuss their academic adjustment (s) with their instructors; however, students are NOT obligated to self-disclose the nature of their disability to the instructors. Students are responsible for communicating the effectiveness of the academic adjustment(s) with the instructors and the campus ADA contacts.

GRIEVANCE PROCEDURE

If a student is not satisfied with the academic adjustment(s) that, after discussion with all parties, has been determined to be appropriate by the campus ADA contact, then s/he may use the following grievance procedure.

Students who are unsatisfied with the academic adjustments approved by the campus ADA contact or otherwise feel they have been the subject of discrimination on the basis of disability shall state their concerns in writing to the appropriate Dean of Student Affairs. The inquiry shall be made as soon as reasonably possible after the action occurs but in no case later than 10 working days after such occurrence. The time for filing a grievance can be waived for good cause at the discretion of the Dean of Student Affairs.

The Dean of Student Affairs, or designee, shall conduct a thorough investigation of the grievance, affording all interested persons and their representatives an opportunity to submit relevant information. The Dean of Student Affairs shall consult with the College's Civil Rights Coordinator, or designee, and shall issue a written response, with a description of the resolution, if any, to the grievant and other appropriate persons within 15 working days of receipt of the complaint.

The decision of the Dean of Student Affairs shall be final.

Nothing in this procedure prevents any individual who believes he or she may have been discriminated against from pursuing any and all legal remedies.

RETURNING STUDENTS

Accommodation(s) plans are NOT carried over from semester to semester. A new request for academic adjustments must be made for each semester that adjustments are desired. Once a request is made, students must allow the campus ADA contact up to four weeks to facilitate appropriate academic adjustments.

PROCEDURE FOR THE RESOLUTION OF DISCRIMINATION COMPLAINTS AGAINST A STUDENT

Introduction

It is the policy of the College that no student shall be subject to unlawful discrimination in the educational programs and activities over which the College has jurisdiction. The College does not tolerate discriminatory conduct and is firmly committed to resolving complaints of discrimination in a prompt and equitable manner.

As a result, the College has adopted the following procedures to provide an internal mechanism to resolve complaints of discrimination. These procedures shall be utilized whenever a student is accused of engaging in discriminatory conduct in violation of the College's Statement of Nondiscrimination Policy. However, complaints against another student or employee for violating the College's Policy Statement on Student Sexual Harassment or the College's Policy on Employee Sexual Harassment, respectively, shall be reviewed under those procedures. In addition, student complaints pertaining to academic accommodations shall be reviewed under the College's Guide to Requesting Academic Accommodations and/or Auxiliary Aids. Furthermore, complaints made against an employee who is accused of violating the College's Statement of Nondiscrimination Policy shall be reviewed under the Procedure for the Resolution of Discrimination Complaints Against an Employee as contained in Section XIII of the College's Personal Policy Manual.

No individual shall be subject to retaliation at any time for making a complaint of discrimination or for participating in these procedures. It is a violation of College policy for any member of the College community to retaliate against the Complainant, any individual who participates in any discrimination investigation or proceeding, or against the Respondent who has been accused of engaging in discrimination. While all discrimination allegations will be reviewed in accordance with these procedures, the College community is advised that a claim of discrimination is not proof of prohibited conduct. Anyone who believes that he/she has been



subject to retaliation arising from discrimination allegations is encouraged to report such behavior to a College official as set forth below. Accusations of retaliatory conduct are subject to disciplinary action, up to and including dismissal from the College.

Making a false or malicious accusation of discrimination and/or retaliation is also prohibited by the College. A student who is found to have made an allegation of discrimination against another student or employee that is intentionally false, or made in reckless indifference or disregard for the truth, shall be subject to disciplinary action, up to the College's Student Rights and Standards of Student Conduct Policy and the disciplinary action set forth therein, up to and including dismissal from the College.

Additionally, at any stage of these procedures, the Dean of Student Affairs at the campus where the alleged discrimination and/or retaliation is alleged to have occurred (hereinafter the "Dean") shall have the authority to take any and all reasonable steps necessary to protect all parties involved under these procedures from further discriminatory conduct and/or retaliation. The occurrence or non-occurrence of any protective measure initiated by the Dean is neither an indicia of guilt nor innocence under these procedures. Any such steps taken by the Dean to protect members of the College community from further discriminatory conduct and/or retaliation shall be final pending the resolution of the allegation as set forth under these procedures.

Furthermore, these procedures, and all aspects thereof, will be kept confidential to the maximum extent provided by state and federal law, including, but not limited to, the Family Educational Rights and Privacy Act ("FERPA"). The College will take all reasonable steps to investigate and respond to complaints in a confidential manner. Complainants, however, are advised that the College's ability to investigate and to respond to complaints may be limited in circumstances where the Complainant does not wish to disclose his or her identity. The College reserves the right to notify law enforcement authorities about allegations of discrimination upon reasonable belief that such incidents rise to the level of criminal activity. The use of these procedures does not preclude a Complainant from seeking recourse through the appropriate state or federal criminal law enforcement agencies at any time.

Reporting Procedures

The College encourages any student who believes that he/she has been subjected to discrimination to report the offensive conduct to a College official as soon as possible. For purposes of these procedures, a College official shall include any faculty member, academic counselor, administrator, or Public Safety Officer on the campus where the conduct is alleged to have occurred. Students may also contact the College's Civil Rights

Coordinator to report incidents of alleged discrimination.

The College's Civil Rights Coordinator shall be notified of all claims of discrimination as soon as reasonably practical. The Civil Rights Coordinator shall promptly appoint a Civil Rights Review Officer ("Review Officer") from the campus where the conduct is alleged to have occurred to investigate the claim. The Review Officer shall advise the alleged offender that a complaint of discrimination has been filed against him/her and explain the College's prohibition against retaliation. The Review Officer shall document receipt of the complaint by letter or other written communication to the alleged offender and to the Complainant, a copy of which shall also be provided to the Dean and to the College's Civil Rights Coordinator. The Review Officer shall investigate the complaint to determine whether or not there are sufficient grounds to support a charge of discrimination as set forth in the College's Statement of Nondiscrimination Policy. The Review Officer shall encourage and/or assist the Complainant to reduce his/her claims to writing, which shall serve as the basis for the complaint of discrimination. Whenever possible, the investigation shall include interviews with both parties involved in the complaint and/or may include interviews with individuals who may have observed the alleged conduct or may have relevant knowledge of the incident. The Review Officer shall also have access to such written documents in the possession of the College, including student records, that he/she believes may contain relevant information or which may lead to the discovery of relevant information.

The Review Officer shall make a written determination regarding whether or not sufficient evidence exists which, if true, would constitute discriminatory conduct in violation of the College's Statement of Nondiscrimination Policy. All evidence shall be viewed by the Review Officer in the light most favorable to the Complainant when making the determination of whether or not a claim has been stated or substantiated. The determination shall be made within ten (10) working days following the Review Officer's appointment, include the grounds and findings upon which the determination was based, and be delivered to the parties, the Dean, and to the College's Civil Rights Coordinator. In extenuating circumstances, including but not limited to those incidents that require evidence gathering by law enforcement officials, the Review Officer may extend the ten (10) working day deadline to make the determination. The parties, as well as the Civil Rights Coordinator, shall be notified in writing by the Review Officer about the reasons for the delay and the time frame in which the determination shall be made.

The Complainant may appeal a determination that insufficient evidence exists to support a claim of discrimination to the Civil Rights Coordinator. An appeal must be submitted in writing within ten (10) working



days following the date of the Review Officer's determination. The decision of the Civil Rights Coordinator regarding the sufficiency of the allegations, or the evidence in support thereof, shall be final.

In the event the Civil Rights Coordinator determines that further proceedings are warranted, the Complainant shall be offered the opportunity to mediate the claim or to have the matter submitted to the Discrimination Review Committee for a hearing.

Note: Mediation is not required to resolve a complaint of discrimination. The Complainant may end mediation at any time in favor of a hearing before the Discrimination Review Committee.

Mediation

Mediation is an informal and confidential way for the parties to resolve the complaint with the help of the Review Officer. The Review Officer will not decide who is right or wrong or issue a decision. Instead, the Review Officer will help the parties work out their own voluntary solution to the complaint.

Mediation should begin as soon as reasonably practical following an election by the Complainant but in no event greater than 10 working days absent agreement by the Complainant or extenuating circumstances that make commencement of the process impractical within the 10 day limit. Except as limited by the foregoing, in the event efforts to mediate do not begin within 10 working days, then the matter shall proceed to a hearing before the Discrimination Review Committee. Examples of such mediated options include, but are not limited to:

- **A.** One or more meetings between the Complainant and the Respondent, mediated by the Review Officer, to discuss and resolve the complaint of discrimination to the satisfaction of both parties.
- **B.** In the event that the Complainant does not wish to confront the Respondent, one or more meetings in which the Review Officer meets separately with the Complainant and the Respondent to discuss options to resolve the matter. The Review Officer shall notify the parties in writing if a settlement is reached, and shall attach a proposed form of agreement for signature. The failure or refusal of a party to execute the agreement within a reasonable time shall result in the matter proceeding to a hearing before the Discrimination Review Committee.
- **C.** An agreement between the parties and delivered in writing to the Review Officer containing: 1) a statement describing the allegation of discrimination and requesting that such alleged conduct stop, signed by the Complainant; and 2) and acknowledgement of the complaint without admission of guilt and affirmation that the Complainant will not be subjected to

discriminatory conduct in the future, signed by the Respondent.

Mediation may be discontinued: at any time by the Complainant; by the Review Officer, when he/she feels that further efforts will be non-productive; or when a voluntary agreement has been reached. The Review Officer shall prepare a written report documenting the success or failure of mediation to the Civil Rights Coordinator, the Dean, and the parties. If the mediation results in a voluntary settlement, a copy of the agreement, signed by the parties, shall be included, together with a statement that the College considers the matter to be closed. In the event that mediation resolves the matter, all documentation arising out of the allegation of discrimination, including the mediation agreement shall be separated from the student's educational file. In the event mediation is unsuccessful, the matter shall proceed to a hearing before the Discrimination Review Committee.

Discrimination Review Committee Hearing

A Discrimination Review Committee shall hear and determine claims of discrimination against a student in situations where mediation is not available, unsuccessful, or declined by the Complainant. The Committee shall consist of the Civil Rights Coordinator, who shall serve as the Committee Chairperson, one Civil Rights Review Officer who was not involved in the investigation of the allegation, and the Dean. The College Civil Rights Coordinator shall provide written notice to the parties of the date, time and place for the hearing before the Discrimination Review Committee. Such notice shall also include the following:

- 1. A copy of the complaint or a summary of the allegations;
- 2. A copy of the Review Officer's report; and
- 3. A summary of the rules that will govern how the hearing will be conducted.

Absent extenuating circumstances, or an agreement by the parties, the hearing shall take place within ten (10) working days following receipt of notification from the Review Officer that mediation was unsuccessful, unavailable or declined by the Complainant. The role of the Committee shall be to hear and consider testimony and other relevant, reliable evidence and make findings of fact related thereto. In addition, the Committee shall be charged with determining by a preponderance of the evidence whether or not a violation of the College's Statement of Nondiscrimination Policy has occurred.

The Committee shall submit a written report to the parties setting forth its findings of fact and its determination as to whether a violation of the College's Statement of Nondiscrimination Policy has occurred within five (5) working days following the conclusion of the hearing. In the event a violation is found to have occurred, the report shall also include a



recommendation of appropriate relief and/or disciplinary action, up to and including dismissal from the College.

The Committee's decision may be appealed by either party to the Vice President and Campus Director at the campus where the conduct is alleged to have occurred (hereinafter the "Campus Director"). The Committee's decision shall be final unless a timely appeal is made by one or both parties. A recommendation that the Respondent be dismissed from the College shall automatically be reviewed by the Campus Director.

Either party may appeal the Committee's decision, or any recommended relief and/or disciplinary action contained therein. All appeals shall be made in writing and delivered to the Civil Rights Coordinator within ten (10) working days following the date of the Committee's decision. The Campus Director's decision to affirm, deny, or modify the Committee's recommendations and determinations shall be based upon the record of the proceedings made by the Discrimination Review Committee. All such decisions by the Campus Director are final and shall be delivered in writing to the parties within ten (10) working days following receipt of the appeal.

In the event that a violation of the College's Statement of Nondiscrimination Policy is determined through the hearing process, all documentation arising out of the allegation of discrimination, including any and all resulting disciplinary action imposed to resolve the matter, shall be maintained in the student's educational file.



A Message From the President

Welcome to Delaware Technical Community College! As a former graduate of Delaware Tech and now as its president, I know the difference Delaware Tech can make in the lives of students. I invite you to explore our website and learn about the many high-quality, educational programs that can prepare you to achieve your academic and career goals!

As you search our site, you'll find career-focused degrees, certificates, diplomas and courses that prepare you for immediate entry into the workforce or enhance your existing professional skills...connecting Delawareans with jobs is our top priority.

To ensure our graduates are job-ready on Day 1, Delaware Tech offers rigorous nationally-accredited programs taught by high-quality faculty members, many of whom have years of experience in their field. As a student, you'll learn in a "hands-on" environment using the same cutting-edge technology that you'll find in the workplace. The College has strong relationships with business and industry throughout the state and region; if Delaware Tech is offering a program, you can feel confident that local employers have a need for highly-skilled professionals in that field.

And we deliver high quality programs at a great value. Delaware Tech has one of the lowest tuition rates in the region; 70% of our graduates walk across the stage at commencement debt-free! That's why so many of our graduates begin their higher education careers at Delaware Tech and then seamlessly transfer to a four-year university through one of our 150+ connected degree programs.

No matter which path you choose at Delaware Tech, our caring and dedicated faculty and staff will be there to help you succeed. Our advisement and support services are designed to help you every step of the way, and we offer countless opportunities for our students to engage in campus clubs, athletics and work experiences that will enhance your professional skills and your resume.

In addition to our career-focused programs, the College offers many community-based programs including summer youth camps, adult education for those looking to complete a GED®, continuing education classes for those with specific interests and workforce development for business and industry training needs. Community is not just part of our name, it's at the heart of our mission.

Call us, visit our campuses, talk with our staff and faculty. Contact us today, and let us know how we can help you reach your goals! We're waiting for you!

Sincerely, Mark T. Brainard

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Mark T. Brainard
President



Board of Trustees

The Board of Trustees of Delaware Technical Community College is the governing body of the institution. All members are appointed by the Governor of the State of Delaware with the consent of a majority of the State Senate. Six members are appointed for three-year terms - one from the City of Wilmington, one from New Castle County outside of the City of Wilmington, one from Kent County and one from Sussex County, with the remaining two from anywhere in the State. The seventh member, the Chairperson, is appointed by and serves at the pleasure of, the Governor. No more than four members may be of the same political party. The Board of Trustees sets policy for the College and is responsible for ensuring that the institutional mission is carried out. Among its numerous responsibilities, the Board approves the College plan, is responsible for the management and control of the institution, has the power to appoint administrative and teaching staff, sets the tuition rate, and approves fees. The Board also reviews fiscal matters and approves budgets.

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PRESIDENT'S OFFICE

The President's Office maintains an administrative staff to provide Collegewide leadership and perform specialized administrative and service roles for the Institution. These roles include strategic planning, institutional research, institutional effectiveness, marketing and public relations, human resources, legal affairs, college relations, computer services, academic affairs, curriculum development, student affairs, workforce development and community education, international education, purchasing, financial planning, and accounting. In addition, each campus has its own administration with leadership provided by the Vice President and Campus Director.

ACCREDITATION STATEMENT

The College and its campuses are accredited by the Middle States Commission on Higher Education, 3624 Market Street, Philadelphia, PA 19104. (267-284-5000). The Middle States Commission on Higher Education is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Council for Higher Education Accreditation. In addition, several curricula have earned program-based accreditation by various professional organizations.

THE DELAWARE TECHNICAL COMMUNITY COLLEGE EDUCATIONAL FOUNDATION

The College exists to improve the quality of life for all Delawareans through education and training. In order to fulfill its mission, the College requires private support to maintain excellence in its offerings. Established in 1968, Delaware Technical Community College's Educational Foundation provides funding for student scholarships, staff development projects, and specialized equipment. Gifts may be given to the Foundation and designated for specific purposes. The Educational Foundation provides an opportunity for members of the community, College employees, alumni, students, and corporations to actively participate in the continued development of Delaware Technical Community College.

General Information

DELAWARE TECHNICAL COMMUNITY COLLEGE

Delaware Tech, the state's only community college, is guided by the values of providing access, opportunity, excellence, and hope for each student. Delaware Tech is an open admission institution that offers credit and non-credit education and training opportunities including more than 100 associate degree, diploma, and certificate programs. Programs are offered in fields

such as energy management, engineering technology, business, computer information systems, nursing, allied health, education, criminal justice, and human services. Sixty-four of the associate degree programs at the Campuses have earned program accreditation by their state or national accrediting agency, demonstrating the College's full commitment to meeting industry standards of excellence. Delaware Tech also has 141 articulation agreements with four-year institutions, providing seamless pathways for graduates seeking a bachelor's degree. In the area of continuing education, offerings are provided in career training, customized training, personal enrichment, and youth programs.

In addition to traditional classroom instruction, Delaware Tech offers courses in multiple locations and formats that enable students to select the course type and delivery method that best fits their educational goals and objectives. Most on-campus courses and every distance learning course uses Blackboard, an industry-leading learning management system. In addition to Blackboard, faculty also have access to distance learning classrooms which feature state-of-the-art video conferencing and learning technologies, synchronous communication tools, as well as other course-specific interactive elements and applications.

Since 1967, when the College was founded, thousands of graduates have entered the workforce with the knowledge and skills they need to be successful. Leaders in business, industry, government, education, and health serve on College advisory committees, providing guidance to Delaware Tech as it develops and evaluates curricula to ensure its programs are up to date and relevant in the modern workplace.

Delaware Tech has earned its place as an educational leader in the State. The College is respected and trusted at the state and national levels because of its responsiveness to the needs of business and industry, commitment to quality and vision that supports economic development and educational needs of Delawareans.

HISTORY

The Delaware General Assembly created Delaware Technical Community College in 1966, when it approved House Bill 529, signed into law by then-Governor Charles L. Terry, Jr. A Board of Trustees was appointed to oversee development of the statewide institution. The Board Chairman was E. Hall Downes; members were William A. Carter, Edward W. Comings, William C. Kay, Clement J. Lemon, John H. Long, and Charles L. Simms.

The studies and reports of the original Board were used to create the Southern Campus which opened in September 1967, near Georgetown in Sussex County,



with 367 students enrolled. The name was changed to the Jack F. Owens Campus in May 1995. A temporary Northern Campus opened in New Castle County in 1968. The Northern location was replaced by two campuses-Stanton in the fall of 1973 and Wilmington in the spring of 1974. The Terry Campus opened in 1972 and moved to its current location north of Dover in 1974.

The President's Office, located adjacent to the Terry Campus, functions as a central office by providing collegewide leadership and a variety of services in support of the campuses. Students of all ages, backgrounds, and walks of life have benefited from the training and education that Delaware Tech has provided. It is estimated that one-fourth of Delaware's population has taken courses at Delaware Technical Community College during its short history.

MISSION STATEMENT

Delaware Technical Community College is a statewide multi-campus community college committed to providing open admission, post-secondary education at the associate degree level. The College offers comprehensive educational opportunities that support economic development and are relevant and responsive to the needs of the community including career, general, developmental, and transfer education; workforce training; professional development; and lifelong learning. The College believes in the practical value of higher education as a means of economic and personal advancement. The College respects its students as individuals and as members of diverse groups and is committed to fostering student success.

GOALS

The College will achieve its mission through the goals listed below:

- Academic programs will prepare students for successful employment upon completion and/or transfer to a senior institution.
- Developmental education will prepare students in mathematics, reading, and writing to be successful in entry-level College courses and workforce training.
- Workforce training and professional development programs will prepare and support a competitive workforce.
- Personal enrichment programs will provide lifelong learning opportunities for the community.
- Programs, activities, and services will create a welcoming and inclusive environment that promotes respect for diverse cultures, backgrounds, and points of view.

- The College will provide an environment that cultivates student learning and success.
- Public and private resources will be sought, obtained, and utilized to advance the College Mission and Goals.

INSTITUTIONAL EFFECTIVENESS

The College has established an institutional effectiveness structure that demonstrates effectiveness through the assessment and improvement of mission goal outcomes at the institutional level, student learning outcomes at the program level and educational support outcomes at the unit level. Outcomes assessment information relevant to potential students is available from the specific academic program and may include performance indicators such as national examination pass rates, internship or clinical performance ratings, portfolio or capstone project assessment, job placement rates, etc. Students interested in this information should talk with the academic program chairperson.

ADVISORY COMMITTEES

The College uses advisory committees to guide development and maintenance of educational programs. The committees are composed of public-spirited, knowledgeable citizens with expertise in business, industry, government, education, and health-related fields relevant to the education programs. Committee members meet periodically with department chairpersons, instructors, and deans. Advisory committees review curricula, arrange internships for students, and help the staff to assure that graduates will be prepared for entry into career fields.

Services for Students

The Division of Student Affairs is a partner in the student-centered learning community at Delaware Technical Community College. The Division provides programs, activities and services that promote student learning, engagement, development and achievement of goals. Students are respected as individuals and supported in their aspirations for a better life.

ADMISSIONS

Delaware Technical Community College has an open-door admissions policy limited only by the following criteria: a student must be a high school graduate or the equivalent, **or** at least eighteen years



of age and able to benefit from instruction.

Before enrollment in credit courses, award-seeking students are required to submit proof of high school or equivalent graduation **or** demonstrate through approved means the ability to benefit from the College's instructional programs.

High School Graduation And Ability To Benefit

Proof of high school graduation is required for award-seeking students who are applying for financial aid, the Student Success Equals Degree (SEED) Scholarship, and/or admission to academic programs with selective admission criteria (including competitive and wait list processes). The following proof of high school graduation is acceptable:

- High school transcript;
- Copy of high school graduation diploma or GED® credential;
- Letter from school district or state department of education attesting to high school graduation or attainment of GED® credential; or
- Secondary school completion credential for home school or proof of having completed a secondary school education in a home school setting that qualifies as an exemption from State compulsory attendance requirements.

As an alternative to providing proof of high school graduation or the equivalent (as described above), award -seeking students who are *not* applying for financial aid, the Student Success Equals Degree (SEED Scholarship, and/or admission to academic programs with selective admission criteria may demonstrate the ability to benefit from the College's instructional programs by earning at least the minimum score set by Delaware Tech for the College Board Accuplacer test or the Scholastic Aptitude Test, that is required to place the student in the College's developmental education courses. Continued enrollment is contingent on the student earning grades as required by the Academic Standing Policy and the Academic Standing Policy for Developmental Education.

The College's open-door college admissions policy does not mean that every academic program/curriculum is open-door. Students must meet course pre-requisites before enrollment and program/curriculum specific criteria for program admission.

Admission requirements for non-award seeking students (high school students, visiting college students, and adults who want to enroll in credit courses for personal enrichment and lifelong learning) are delineated in separate policies.

Operational Information

A high school diploma or GED® credential is one of the eligibility requirements for Federal financial aid. The College's Adult Basic Education program prepares students for GED® testing and/or to strengthen academic skills in preparation for college course placement.

Reasonable academic adjustments for testing are available for students with disabilities, which may include auxiliary aids and/or accommodations that do not alter a fundamental requirement of demonstrating college readiness.

COLLEGE ADMISSIONS PROCEDURE

For admission to the College and for full access to services, applicants should plan to complete the admissions process at least 30 days before the first day of class. Applicants should review their selected program as shown in the College Catalog to determine if there are additional admission requirements related to their specific program of study. The following procedures for admission to any campus should be followed.

- Submit an Application to the College with a \$10 non-refundable application fee payment.
 Applicants can apply on-line (http://www.dtcc.ed u/admissions-financial-aid/apply/admissions), download a paper application (http://www.dtcc.e du/admissions-financial-aid/apply/admissions), or contact any campus for a paper application. Checks or money orders should be made out to Delaware Technical Community College.
- Request that your high school and/or college transcript or GED® certificate be sent immediately to the Admissions Office on the campus to which you are applying. Submit Advanced Placement Test scores from your high school, as well as Tech Prep verification, CLEP or DANTES scores. (See information above about this requirement.)
- 3. Demonstrate College readiness in one of the following ways:
 - a. Take the Accuplacer test for writing, reading, and math.
 - b. Provide a copy of your SAT test scores.

Academic Program Admission Information

Delaware Tech is an open access college, but students must demonstrate academic readiness for college courses, satisfy course pre-requisites, and additionally be selected for admission into some academic programs that have limited seats and specific program



admission criteria and requirements. Selection for admission is not guaranteed into these programs, which currently include Nursing, Allied Health, and several others such as Airframe Maintenance.

The academic programs with specific admission criteria, requirements and limited seats offer admission to qualified students through either a **Competitive Process** or a **Wait List Process**.

In the **Competitive Process**, qualified students are ranked on the basis of their performance in meeting admission criteria and completing admission requirements. Performance measures may include but not be limited to grades, course pass attempts, scores on national and college specific examinations, etc. Ranking is conducted each time program admission is open so a student's chances of admission change in relationship to the performance of other student applicants. In this process, program admission is not guaranteed to any student.

In the **Wait List Process,** qualified students are placed on a wait list for program admission after they meet all admission criteria and requirements at the minimal prescribed level. In this process, all qualified students who meet the admission criteria and requirements are eventually offered a seat in the program.

Additional typical requirements for program admission and for employment include the following: satisfactory criminal background check, possession of a valid social security number and legal status to work, satisfactory physical examination, the ability to perform physical tasks, negative drug testing, and no record of abuse.

Academic programs with competitive or wait list admission procedures provide this information on their specific web page.

Programs with limited seats and specific program admission criteria and requirements may afford preference to residents of the State of Delaware. Delaware residency is determined in accordance with the requirements contained in the College's Residency policy.

The President of Delaware Technical Community College is authorized to establish enrollment quotas for qualified candidates by county for these programs which are offered in one or two counties and not offered in the other county or counties. At no time shall the quota for the campus offering the program be less than two-thirds of the entering enrollment.

ADVISORY STATEMENT

Delaware Technical Community College is an open admissions institution with degree, diploma, and

certificate programs that require completion of courses, internships, practicums, clinical, and field work assignments and other experiential learning requirements. Approval of a student's placement in settings, such as health care facilities, schools and human services agencies, which provide these experiences is the prerogative of the organization providing the setting and not the College. Although requirements vary by organization and are constantly evolving, common criteria include:

- the lack of a criminal history including a review of the adult abuse and child protection registries:
- a satisfactory health exam including proof of immunizations and drug screenings;
- a valid Social Security number and proof of legal residency;
- and other applicable licensing/credentialing requirements.

Legal residency is required to work. Students should be aware that these requirements could limit or prevent their ability to complete an academic program or to find employment in the field. Students are responsible for all arrangements and costs associated with these requirements.

It is the student's responsibility to inquire about conditions and acceptance into courses and programs that may have special requirements. A student may seek the assistance of an Academic Counselor, Program Advisor or academic program Department Chairperson in identifying conditions of acceptance and enrollment in all programs and courses at Delaware Technical Community College.

Conditions of employment are established by potential employers and not by Delaware Technical Community College and such conditions of employment may include or exceed any or all of the above requirements.

DEGREE-SEEKING STUDENT

Students who have completed the admission process and are enrolled in an associate degree, diploma or academic certificate program. This group includes students who intend to earn an award, but have an undeclared major. Award-seeking students must demonstrate college readiness or complete designated developmental education courses.

NON-AWARD SEEKING STUDENT

A non-award seeking student is one who has not matriculated and enrolled in a Delaware Tech degree,



diploma or credit certificate program, but is enrolling in credit courses. Non-Award Seeking includes visiting college and high school students, and students taking courses for their own enjoyment or professional enhancement. Visiting college students are assumed to be college ready. High school students must demonstrate college readiness through approved means. Non-award seeking students who are enrolling in courses for personal or professional enrichment do not have demonstrate college readiness if they enroll in Listener status.

VISITING STUDENTS

COLLEGE

Students pursuing a degree program at another college or university who want to take Delaware Tech courses to transfer back to their home institution. This includes University of Delaware Associate in Arts students.

Students are not required to demonstrate college readiness because their advisement derives from their home institution. It is the visiting student's responsibility to obtain authorization from the home institution regarding the transferability and applicability of the Delaware Tech course to their curriculum.

HIGH SCHOOL

High school rising junior or senior students may enroll in Delaware Tech courses with permission from their high school counselor/principal and their parents. Completion of the Early Enrollment form is required. In order to assure high school students are prepared to succeed at the college level, students must provide evidence of college readiness through the means approved by Delaware Tech prior to registration.

HIGH SCHOOL STUDENTS EARLY ADMISSIONS AND ENROLLMENT PROGRAMS

Rising junior or senior high school students may enroll at Delaware Technical Community College while concurrently enrolled in high school. Students must complete the admission procedures and a Request for Early Admission/Enrollment form which verifies the approval of the parent/guardian and the high school principal or counselor.

The approval of the campus Dean of Student Affairs is required prior to acceptance into the College and course registration. Students must be college-ready for enrollment in college level courses and meet course pre-requisites. Students may enroll in developmental courses with appropriate test scores for placement.

Students must register for the Delaware Tech course(s) and pay tuition and appropriate fees. Students must satisfy program specific requirements applicable to each selected college course.

Early Admissions

A rising senior high school student can be admitted and enroll in a degree or diploma program at Delaware Technical Community College on a full or part-time basis.

Early Enrollment

A rising junior high school student may enroll in up to two credit courses per semester at Delaware Technical Community College on a part-time basis. Specific programs, including over-subscribed programs, may be exempt from this policy.

INTERNATIONAL STUDENTS

Delaware Tech welcomes members of the international community. Prospective "F-1" applicants who intend to apply for a student visa must obtain the "Guidelines for Prospective F-1 Students" packet from the Admissions Office. This packet contains information regarding eligibility for admission. Non-native English speakers must also demonstrate proficiency in English and/or be placed in appropriate English as a Second Language or developmental education courses. For more information, please visit the college web site at https://www.dtcc.edu/admissions-financial-aid/apply/international-student

PLACEMENT IN COLLEGE LEVEL COURSES

Applicants seeking degrees, diplomas or credit certificates must provide evidence of readiness for college level courses. A variety of means are accepted including Accuplacer SAT, AP, TOEFL, IELTS, CLEP or DANTES scores; transfer of college credit for required courses, in reading, writing and mathematics; or possession of an associate or higher degree. Placement cut-off scores are available from the Campus Admissions Office.

The College Board's Accuplacer is a standardized test used for placement purposes only. Applicants are tested in reading, writing and mathematics. Results of the test are used to determine the level of courses at which students will begin. All students who are placed into a developmental education course are required to complete the course, SSC 100 First Year Semester.

Applicants who have earned college credit for English or mathematics courses are exempt from part of or the entire placement test. Exemption of placement testing will be based upon evaluation of an unofficial or official



college transcript as described below:

- (a) Transfer credit approved for a developmental reading, writing or math course waives the relevant Accuplacer test.
- (b) Completion of a college level English course with a grade of "C" or better waives the Accuplacer Sentence Skills and Reading tests.
- (c) Completion of a college level mathematics course with a grade of "C" or better waives the Accuplacer Arithmetic test.
- (d) Completion of a college level algebra course with a grade of "C" or better waives the Accuplacer Algebra test only if the course is currently listed on the Delaware Technical Community College transfer matrix or permission to waive Algebra Accuplacer test is approved by the mathematics department chair.*

*While completion of college level courses provides evidence of college readiness, it does not guarantee transfer of credit. In addition, course pre-requisites must be observed. In order to evaluate transfer credit, an official transcript must be submitted.

Students are eligible to retake each portion/subject of the Accuplacer test one time. The length of time between re-takes is the student's prerogative, but students should be strongly encouraged to prepare for the re-take attempt. The Dean of Student Affairs may approve additional re-take attempts in exceptional circumstances he/she believes warrants a re-take opportunity.

ACADEMIC ADVISEMENT

At Delaware Tech, academic advisement is an essential part of the student's learning experience and a critical component of student success. Academic advisement teaches the student to navigate the college experience, identify goals, understand program and course options, connect to campus resources and activities, and develop and implement strategies to successfully achieve the student's goals.

Faculty and staff throughout the College community collaborate to provide comprehensive academic advisement. Initial advisement is provided in the advisement center. In addition, the student is assigned a program advisor based on the selected program of study. Together, the advisors and student develop a Student Educational Plan focused on achieving the student's educational, professional, and life goals.

Advisement Center

The advisement center provides general advisement by appointment and walk-in hours.

At the advisement center, Academic Counselors work

with the student to begin the Student Educational Plan.

The Academic Counselors guide the student in navigating the steps to enrollment, exploring career options, selecting a program of study, learning to access MyDTCC, selecting first semester courses, and identifying opportunities for engagement and strategies for success. The student is encouraged to visit an advisement center throughout the educational experience to clarify goals, answer questions, seek referrals, and discuss additional opportunities for success.

Program Advisor

The program advisor provides ongoing advisement specific to the student's area of study and collaborates with the student to continue to develop the Student Educational Plan. The program advisor mentors the student in evaluating career options, understanding program requirements, making effective decisions about course enrollment, developing professional behaviors, and reviewing progress towards goal achievement. Regular, ongoing meetings with the advisor are essential in helping the student achieve goals in a timely manner.

Student Educational Plan

The Student Educational Plan (SEP) is an electronic tool that enables consistent communication between the College and the student to identify goals and develop comprehensive strategies to achieve them. The SEP is created at the initial meeting with an advisor. Each student is required to meet with a program advisor to continue developing the SEP before enrolling for a second semester. The student is expected to work with a program advisor on an ongoing basis to update the SEP. The SEP is accessible through Self-Service Banner.

Registration

After selecting courses for the upcoming semester(s), the student must complete the registration process to enroll in the courses. Students may register online through Self-Service Banner or at the Registrar's Office. Designated registration periods for each semester are posted on the Academic Calendar. *Early registration is recommended for greater course availability.*

REGISTRATION

Registration is the period of time set aside each semester during which students select and enroll in courses for the following semester(s). Students are encouraged to meet with their assigned program advisor as early as possible after admission, but must meet with their program advisor to develop their individual Student Educational Plan prior to second semester enrollment. Students may obtain walk-in assistance from campus advisement centers. Students must have the signature of both the advisor and



department chairperson to register for more than 21 credits per semester. Students are encouraged to register as early as possible to ensure course availability. Students may register in-person or via the College's website at www.dtcc.edu/register.

FACILITIES AND SERVICES FOR STUDENTS WITH DISABILITIES

Delaware Technical Community College is committed to complying with the Americans with Disabilities Act of 1992. The College provides students with disabilities, resources and support to assist in their academic success by engaging in an interactive process with each student. Each campus has a professional staff member assigned to provide necessary resources and services to students who have unique needs due to their disabilities. Faculty and staff work cooperatively to assist students with special needs in their educational endeavors and adjustment to the campus community. Each of the campuses is architecturally accessible to disabled students. Barrier-free restroom, telephone and eating facilities are provided at all campuses. Automatic doors and elevators are installed in appropriate areas. Reasonable academic accommodations will be provided for students needing specific assistance. Students are urged to request resources and services prior to the beginning of the semester. The College requires appropriate documentation of the need for assistance. Prospective students are encouraged to visit the campus to become familiar with the campus and meet the support staff prior to making their decision to apply and enroll.

Information for requesting reasonable accommodations and building a plan of academic support can be found on the College web page at http://www.dtcc.edu/studen t-resources/learning-support/disability-services

CAREER PLANNING AND PLACEMENT

Career planning and placement information is available to help students plan for the future. The Career Center is a useful resource for students who are trying to decide upon a major, find a job or internship, write a resume

or improve interviewing skills.

Students may use a computer based career planning program that includes information concerning job duties and responsibilities, opportunities for growth and advancement, and salary structures in career fields of their interest. In addition, students may review catalogs of area institutions, view videos on interviewing techniques, receive information regarding resume and cover letter development and protocol, and participate in mock job interviews with the career counselors. For more information, students may visit the campus

Career Center or the web site at http://www.dtcc.edu/student-resources/career-services

HOUSING & PARKING

The College does not maintain student housing of any type; therefore, the College cannot accept responsibility for students housed locally. Parking facilities are available at each campus on a first-come first-serve basis. Parking for students with disabilities is also provided.

CAMPUS PUBLIC SAFETY

Delaware Technical and Community College encourages each member of the campus community to report any crimes or criminal activity to the Public Safety Department. The Campus Public Safety officers are empowered with the authority and responsibility to provide immediate assistance with safety and security issues. The Public Safety Department has a close working relationship with local law enforcement agencies. The local and state police will be called for assistance when needed.

NOTICE OF AVAILABILITY OF ANNUAL SECURITY REPORT

Delaware Technical Community College maintains an annual security report as required by the Clery Act. The College's annual Clery Act report contains information on campus security and personal safety, including crime prevention, the law enforcement authority of College public safety officers, crime reporting policies, certain specific College policies, and other important matters about security on campus. The report also contains statistics for the three previous calendar years on crimes that were reported to have occurred on campus, in certain off-campus buildings or property owned or controlled by the College, and on public property within or immediately adjacent to and accessible from the campus.

The College's annual Clery Act report is available on the Delaware Tech website at https://www.dtcc.edu/about/public-safety/campus-crime-statistics. A printed report may also be obtained free of charge from the Office of Public Safety at each campus

CONDUCT

upon your request.

Members of the College community have an obligation to participate in the life of the College in a responsible



manner. Students are citizens as well as members of the College community. As citizens, they have the rights that other citizens have such as freedom of speech, peaceful assembly and petition. As members of the College community, students remain citizens with responsibilities and duties commensurate with their rights and privileges. Further information regarding the Board of Trustees' policy on student conduct and student rights may be found in the Student Handbook. The Student Handbook is available online at www.dtcc.edu/handbook/

DRUG-FREE SCHOOL AND WORKPLACE POLICY

Delaware Technical Community College believes that illegal drugs and abuse of alcohol have no place in the College environment. Congress passed the Drug-Free Workplace Act of 1988, requiring the certification of federal grantees of a drug-free workplace; and the Drug-Free Schools and Communities Act Amendments of 1989, mandating the certification of adoption and implementation of programs to prevent unlawful possession, use or distribution of illicit drugs and alcohol by students and employees. The College supports these Acts.

For these reasons, the College has adopted the following regulations:

(a) The unauthorized and/or unlawful manufacture, distribution, dispensing, possession or use of a controlled substance or alcohol is strictly prohibited in all facilities of the College, in all places where its employees/students work/attend, including all State-owned vehicles, and as any part of the College's activities. A controlled substance is one which appears in schedules I through V of section 202 of the Controlled Substances Act (21 U.S.C. 812). As a condition of employment/enrollment, all employees/students shall abide by this prohibition and notify the College of any criminal drug or alcohol statute conviction for a violation of this Policy as provided by paragraph (b) below. Violation of such prohibition shall result in action against the employee/student, as set out in section (g) below, which shall include action up to and including termination/expulsion, and/or satisfactory participation in an approved drug or alcohol abuse assistance or rehabilitation program. Participation in such a program shall not be paid for by the College, but may be covered by a(n) employee's/student's health insurance policy. Appendix A contains a description of Federal trafficking (distribution) penalties for substances covered by the Controlled Substances Act. Appendix B contains examples of State penalties for the unlawful use, possession, or distribution of drugs or alcohol.

All violations of this Policy shall be reported to the College President, or his/her designee, who shall report

the violation to the appropriate law enforcement authority. Action shall be taken in all cases of a chargeable offense under the provisions of the applicable State law or comparable Federal law; however, a conviction of the charged offense shall not be necessary to take action against the employee/student for a violation of this Policy. The employee/student against whom such an action is taken shall be entitled to due process through the rules and regulations of Delaware Technical Community College.

- (b) All employees/students shall notify the College President in writing of any criminal drug or alcohol statute conviction for a violation occurring in any facility or on the property of the College, or at any College activity, no later than five days after such conviction. Failure of the employee/student to make such a notification shall lead to termination/expulsion from the College. Within ten days of receiving notice of any employee convicted as described above, the College shall notify the federal agencies providing grants to and through the College in accordance with the Drug-Free Workplace Act of 1988.
- (c) Within thirty days of receiving notice of any employee/student convicted as described in section (b), the College will:
 - Take appropriate action against such a(n) employee/student, up to and including termination/expulsion; or
 - Request such employee/student to participate satisfactorily in a drug or alcohol abuse assistance or rehabilitation program approved for such purposes by a federal, State, or local health, law enforcement, or other appropriate agency.

Such action may be taken by the College prior to conviction.

- (d) The College shall give each employee/student a copy of the statement set out in the sections (a), (b) and (c) above, and post it prominently throughout the College. To meet requirements of the Drug-Free Workplace Act of 1988, each employee shall sign a copy of the statement; said copy shall be placed in the employee's payroll file in the Office of the President.
- (e) Each campus of the College will develop and implement a program to inform employees/students of:
 - 1. The dangers of drug abuse or alcohol consumption;
 - 2. The College's policy of maintaining a drug- and alcohol-free environment;
 - 3. Any available drug or alcohol abuse counseling, rehabilitation, and employee assistance programs; and
 - 4. The penalties that may be imposed upon



employees/students for drug or alcohol violations occurring in any facility or on the property of the College, or at any College activity.

- (f) The College shall make a good faith effort to continue to maintain a drug- and alcohol-free environment through the implementation of this Policy, and ensuring that all new employees/students are informed of the Policy through the measures set out in sections (d) and (e).
- (g) Delaware Technical Community College employees/students who violate this Policy shall be subject, at a minimum, to the following penalties:

Vi	O	lati	ion	

Minimum Penalties

1. Unlawful possession, use or consumption of a controlled substance or a counterfeit controlled substance, in an amount that is typical of immediate personal use.

Employee: Three days suspension without pay and/or participation in drug abuse program. Student: Three days suspension from classes and/or rehabilitative referral to a drug abuse program

2. Unlawful possession or use of a hypodermic syringe or of drug paraphernalia.

Employee: Three days suspension without pay and/or participation in drug abuse program. Student: Three days suspension from classes and/or rehabilitative referral to a drug abuse program

3. Second offense of violation 1 or 2 above.

Employee: One month suspension without pay and mandatory participation in drug abuse program. Student: One month suspension from classes and mandatory participation in drug abuse program.

4. Third offense of violations 1 and/or 2.

Employee: Termination. Student: Expulsion

5. Unlawful possession of a controlled substance or a counterfeit controlled substance, in an amount which is beyond that typical for immediate personal use. Employee: One month suspension without pay and mandatory participation in drug abuse program. Student: One month suspension from classes and mandatory participation in drug abuse program.

6. Unlawful delivery or distribution of a hypodermic syringe.

Employee: One month suspension without pay and mandatory participation in drug abuse program. Student: One month suspension from classes and mandatory participation in drug abuse program.

7. Unlawful delivery, distribution, or manufacture of drug paraphernalia.

Employee: One month suspension without pay and mandatory participation to drug abuse program. Student: One month suspension from classes and mandatory participation in drug abuse program.

8. Unlawful delivery or distribution of a controlled substance, of a counterfeit controlled substance or of a noncontrolled substance under the representation that the substance is a narcotic or non-narcotic controlled substance in an amount that is typical for immediate personal use.

Employee: One month suspension without pay and mandatory participation in drug abuse program. Student: One month suspension from classes and mandatory participation in drug abuse program.

9. Unlawful delivery or distribution of a controlled substance, of a counterfeit controlled

Employee: Three month suspension without pay and mandatory participation in drug



substance or of a noncontrolledseupsbaymaenunder the representation that the sub-standenils a home contions th nonnarcotic controlled substanspeinsiam arromunianstrish is beyond that which is typicandoniandatdiate personal use. participation in drug abuse

program.

10. Second offense of violations 5 through 9. Employee: Termination. Student: Expulsion.

11. Unlawful delivery or distribution to a minor of a hypodermic syringe, of drug paraphernalia, or of any amount of a controlled substance, a counterfeit controlled substance, or a noncontrolled substance under the representation that the substance is a narcotic or nonnarcotic controlled substance.

Employee: Termination Student: Expulsion

12. Aggravated Possession or Trafficking as defined under state or federal law.

Employee: Termination Student: Expulsion

13. Failure to report conviction pursuant to section (b) of this Policy. **Employee: Termination** Student: Expulsion

14. Intoxication from use of alcohol.

Employee: Up to five days suspension without pay and/or participation in alcohol self-help program. Subsequent violations may result in termination. Student: Up to five days suspension from classes and/or rehabilitative referral. Subsequent violations may result in expulsion.

15. Unauthorized and/or unlawful possession or use of intoxicating

Employee: Up to five days suspension without pay and/or participation

beverages.

in alcohol self-help program. Subsequent violations may result in termination. Student: Up to five days

suspension from classes and/or rehabilitative referral. Subsequent violations may result in

expulsion.

16. Unauthorized and/or unlawful sale or other transfer of intoxicating beverages.

Employee: Up to five days suspension without pay and/or participation in alcohol self-help program. Subsequent violations may result in termination. Student: Up to five days suspension from classes and/or rehabilitative referral. Subsequent

violations may result in expulsion.

(h) A description of the health risks associated with the use of illicit drugs is outlined in Appendix C. A description of the health risks associated with the abuse of alcohol is as follows:

Alcohol consumption causes a number of marked changes in behavior. Even low doses significantly impair the judgment and coordination required to drive a car safely, increasing the likelihood that the driver will be involved in an accident. Low to moderate doses of alcohol also increase the incidence of a variety of aggressive acts, including spouse and child abuse. Moderate to high doses of alcohol cause marked impairments in higher mental functions, severely altering a person's ability to learn and remember information. Very high doses cause respiratory depression and death. If combined with other depressants of the central nervous system, much lower doses of alcohol will produce the effects just described.

Repeated use of alcohol can lead to dependence. Sudden cessation of alcohol intake is likely to produce withdrawal symptoms, including severe anxiety, tremors, hallucinations, and convulsions. Alcohol withdrawal can be life threatening. Long-term consumption of large quantities of alcohol, particularly when combined with poor nutrition, can also lead to permanent damage to vital organs such as the brain and the liver.

Mothers who drink alcohol during pregnancy may give birth to infants with fetal alcohol syndrome. These infants have irreversible physical and mental abnormalities. In addition, research indicates that children of alcoholic parents are at greater risk than



other youngsters of becoming alcoholics.

(i) Employees and students are encouraged to review Appendix D for a listing of providers offering drug or alcohol counseling, treatment, or rehabilitation services. In addition, employees enrolled with the State of Delaware's health care provider are eligible to receive drug or alcohol treatment services through the Employee Assistance Program. Employees may contact the Human Resources Division within the Office of the President for more information regarding the Employee Assistance Program.

- Appendix A
- Appendix B
- Appendix C
- Appendix D

TOBACCO-FREE POLICY

In order to ensure a safe, healthy environment, all Delaware Tech facilities are tobacco free for employees, students, and visitors effective January 1, 2011. The use of all tobacco products is prohibited within the boundaries of all College locations including all buildings, facilities, indoor and outdoor spaces and grounds owned, rented, operated, and/or licensed by the College. This policy applies to parking lots, walkways, sidewalks, sports venues, State vehicles and private vehicles parked or operated on College property. For the purposes of this policy, tobacco is defined as any type of tobacco product including, but not limited to: cigarettes, cigars, cigarillos, electronic cigarettes, pipes, bidis, hookahs, smokeless or spit tobacco or snuff.

The enforcement of this policy is intended to be educational, but repeat violators will be subject to disciplinary action as outlined in the Personnel Policy Manual, Section XII, Conduct and Corrective or Disciplinary Action.

(Board of Trustees, 9/14/10)

HEALTH SERVICES

Health services are limited to basic first aid and early critical care such as CPR and use of an AED. Emergency Medical Services (911) will be called for assistance when the injury or illness is of a serious nature. If the injured/ill student has provided a designated emergency contact, the College will attempt to contact that person upon the request of the student or if the student is unable to make a request.

STUDENT ACTIVITIES

Delaware Technical Community College provides a balanced student activities program which contributes significantly to the total educational experiences of its students. The Student Activities program is designed to foster the intellectual, social, emotional and physical development of students through participation in educational, cultural, recreational and athletic activities. These activities are planned by the Student Activities Coordinator and/or student organizations with funds provided by the Student Services fees and individual club fundraisers. Student activities provide opportunities for development of leadership skills, social interaction, relaxation, and improved physical fitness.

The general administrative responsibility for the Student Activities program rests with the Dean of Student Affairs at each campus. Details regarding specific activities may be found in the campus Student Handbook. The Student Handbook is available online at www.dtcc.edu/handbook/

ATHLETIC PROGRAM

Delaware Technical Community College is a member of the National Junior College Athletic Association (NJCAA). Eligibility rules, codes of conduct, substance abuse policies as well as gender equity policies are mandated or suggested by the NJCAA.

Eligibility is reviewed both on the national and regional level. Problems with eligibility or ethical behavior are brought before the Regional Standards and Ethics Committee.

All high school graduates are eligible for intercollegiate competition. Once a student begins taking college courses, his/her eligibility is determined by the number of college credit hours attempted and the grades earned in those courses. Transfer students from other colleges must produce a college transcript to determine eligibility.

Any additional information concerning athletic matters (forms, scholarships, eligibility, etc.) should be referred to the Campus Athletic Director.

JOB PLACEMENT FOR GRADUATES

Delaware Technical Community College measures its success in large part by the success of its graduates' successful entry into career field employment. Graduate job placement is a "critical effectiveness indicator" that is annually assessed by the College. Academic programs are developed and maintained in consultation with advisory committees that include employers. Academic counselors and faculty meet with business and industry representatives to stay abreast of job



opportunities and refer students to potential employers. They also prepare students for job seeking by assisting with skills such as interview techniques and resume preparation. Annual placement reports document graduates' employment.

TRANSCRIPTS

A transcript is an official historical academic record of all courses for which a student has registered. A copy of this record may be obtained from the Registrar's Office.

Requests for Delaware Technical Community College Official Transcripts should be made on a Transcript Request Form or by personal letter to the Registrar. *Telephone requests will not be honored.* Normal time for processing transcript requests is two working days or less. Every effort will be made to accommodate verifiable emergency requests that day except during peak registration days, end of term grade processing and graduation. The Registrar's Office cannot issue transcripts from other colleges or high schools.

TRANSFER OUT AND ARTICULATED PROGRAMS

The College has articulation agreements with universities and colleges in specific programs. These agreements enable a student to transfer to the senior institution as a junior, provided the required courses have been completed and the appropriate Cumulative Grade Point Average (CUM GPA) has been achieved as required by the receiving institution. The student must apply to the senior institution and complete all required admissions processes. Students need to see their advisor for information on articulation agreements called "Connected Degree Programs." Connected Degree Sheets which summarize these program articulation opportunities are available on campus and on the college website at www.dtcc.edu/connecteddegree/

The Student Affairs Division will assist students in making transfer inquiries, obtaining information, and completing applications to other colleges and universities.

A transfer matrix outlining pre-approved specific course by course transfers with Delaware and a variety of out-of-state institutions is available on the College's website.

FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT OF 1974, AS AMENDED

The Family Educational Rights and Privacy Act (FERPA)

affords students certain rights with respect to their education records. These rights include:

- The right to inspect and review the student's education records within 45 days of the day the College receives a request for access.
 A student should submit to the registrar, dean, head of the academic department, or other appropriate official, a written request that identifies the record(s) the student wishes to inspect. The College official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the College official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
- 2. The right to request the amendment of the student's education records that the student believes are inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA.

A student who wishes to ask the College to amend a record should write the College official responsible for the record, clearly identify the part of the record the student wants changed, and specify why it should be changed.

If the College decides not to amend the record as requested, the College will notify the student in writing of the decision and the student's right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. The right to provide written consent before the College discloses personally identifiable information from the student's education records, except to the extent that FERPA authorizes disclosure without consent. Some, but not all, of the exceptions are explained in this notice.

The College discloses education records without a student's prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is a person employed by the College in an administrative, supervisory, academic or research, or support staff position (including campus public safety personnel and health staff, if any); a person or company with whom the College has contracted as its agent to provide a service instead of using College employees or officials (such as National Student Clearinghouse, an attorney, auditor, or



collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. Upon request, the College also discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the College.

FERPA also allows the College to disclose appropriately designated "directory information" without written consent, unless the student has advised the College to the contrary in accordance with the procedures set forth in this notice. The primary purpose of directory information is to allow the College to include this type of information from your education records in certain school publications. Examples include:

A playbill, showing a student's role in a drama production;

The annual yearbook;
Honor roll or other recognition lists;
Graduation programs; and
Sports activity sheets showing weight and height of team members.

Directory information, which is information that is generally not considered harmful or an invasion of privacy if released, can also be disclosed to outside organizations without a student's prior written consent. If a student does not want the College to disclose directory information from the student's education records without prior written consent, the student must notify the Registrar of the campus in writing within 30 days of the issuance of this notice.

Delaware Technical Community College defines directory information as follows:

- Name
- Address
- College E-mail Address
- Field of Study
- Full- or Part-time Enrollment Status
- Dates of Attendance
- Degrees and Awards
- Honors (President's List, Dean's List, Academic Recognition, and Honor Societies)
- Participation in Officially Recognized Activities and
- Sports
- · Date of Birth

- Most Recent Previous High School Attended
- Weight and Height of Athletes
- Photograph*

*Use of Student Photographs: Photographers employed or contracted by the College regularly take photographs of students to illustrate or describe various aspects of the College and campus life. These photographs will be taken at public venues such as athletic events, concerts and graduation, and/or in other organized campus photo shoots where the subjects will have given verbal consent to be photographed. Individuals who are photographed while attending a public event or who verbally agree to participate in a photo shoot will be understood to have authorized Delaware Technical Community College to use their likeness in print and electronic materials to promote the College. The College will retain the usage rights to the photographs in perpetuity.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the College to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

Family Policy Compliance Office U.S. Department of Education 400 Maryland Avenue, SW Washington, DC 20202-5901

TUTORING

Tutoring is a service designed to help students master a subject, prepare for tests, and sharpen their skills in order to become independent learners. Tutoring services are free for all students and are provided to the extent of campus resources.

Some departments recommend students to work as Peer Tutors to provide extra help for students in various courses. Advanced students work with individuals or small groups to increase understanding of course material.

Comprehensive tutoring services are available during the fall and spring semesters. Students generally receive up to one hour of tutoring per course each week, as necessary. Limited tutorial services may be provided during the summer sessions.

PRIORITY OF SERVICE POLICY FOR VETERANS AND ELIGIBLE SPOUSES



The U.S. Department of Labor (USDOL) provides certain funds to Delaware Technical Community College to provide employment and training services to eligible residents and workers. As a condition to receiving those funds, priority of service (POS) shall be given to veterans and eligible spouses in training and placement services. In accordance with the implementation of the Veterans' Priority Provisions of the "Jobs for Veterans Act" (PL107-288), qualified veterans and eligible spouses will receive priority referral to services over non-veterans as determined by each program's mandatory eligibility criteria, if any. Veterans and eligible spouses must meet all eligibility and program requirements for participation in order to receive priority for a program.

The veteran or eligible spouse shall be identified at the point of entry, whether in person or virtual, so that the priority of service may be implemented over the full range of services available including, but not limited to registration, training and placement. Veterans shall be asked to self-identify upon application.

Priority of service means that a covered person receives access to the service or resource earlier in time than a non-covered person or if the service or resource is limited, the covered person receives access instead of or before a non-veteran.

Eligibility

For purposes of this policy only, the following definitions will apply.

<u>Veteran</u>: a person who served in the active military, naval, or air service, and who was discharged or released therefrom under conditions other than dishonorable, as specified in 38 U.S.C. 101(2). Active service includes full-time duty in the National Guard or a Reserve component, other than full-time duty for training purposes.

<u>Eligible Spouse</u>: The spouse of any of the following:

- (1) Any veteran who died of a service-connected disability;
- (2) Any member of the Armed Forces serving on active duty who, at the time of application for the priority, is listed in one or more of the following categories and has been so listed for a total of more than 90 days:
 - (i) Missing in action;
 - (ii) Captured in line of duty by a hostile force; or
 - (iii) Forcibly detained or interned in line of duty by a foreign government or power;

- (3) Any veteran who has a total disability resulting from a service-connected disability, as evaluated by the Department of Veterans Affairs;
- (4) Any veteran who died while a disability, as indicated in (3) above, was in existence.

The status of a veteran or an eligible spouse can be verified by referring a variety of official documents, including, but not limited to:

- A DD 214 (issued following separation from active duty);
- An official notice issued by the Department of Veterans Affairs that establishes entitlement to a disability rating or award of compensation to a qualified dependent;
- An official notice issued by the Department of Defense that documents the eligibility of an individual, based on the missing or detained status of that individual's active duty spouse; or
- An official notice issued by a State veterans' service agency that documents veteran status or spousal rights, provided that the State veterans' service agency requires Federal documentation of that information.

Implementation

Priority of service shall be provided in course registration and in acceptance into selective admission programs with waiting list and competitive ranking admission procedures.

<u>Admission</u> -Veterans and eligible spouses will be asked to self-identify on the application to the College. The academic counselor who provides ancillary services to veterans will contact the veteran/spouse to discuss priority of service and request documents to verify eligibility, if applicable.

<u>Course Registration</u> –Online and in-person registration shall open one day earlier for eligible veterans and spouses than for other students.

Admission into Programs with Waiting Lists – Eligible veterans and spouses who have met all the program admission requirements shall be placed at the top of the waiting list and admitted in the next program cohort offered seats.

Admission into Programs with Competitive Ranking – Each program shall establish and publish the program admission minimum score/requirements for eligible veterans and spouses to be admitted to the program, independent of the regular competitive ranking admission process. The minimum score/requirements shall be determined based on the program's student success data. As expectations for the workforce and curriculum requirements change, changes may be made to the minimum score/requirements established



for priority of service. Eligible veterans and spouses who meet that minimum shall be admitted.

Financial Information

TUITION

(for the 2014-2015 academic year)

In-State Students (Day and Evening) \$132 per credit hour per semester for all catalog courses. Maximum tuition for full-time students--\$1,584 per semester, 12 credits or more.

Out-of-State Students (Day and Evening) \$330 per credit hour per semester for all catalog courses. Maximum tuition for full-time students--\$3,960 per semester. 12 credits or more.

Students registered for 12 credit hours per semester or the equivalent are considered "full-time" for purposes of tuition payments.

This policy applies equally to students who take courses on more than one campus.

Tuition for non-credit courses will be charged on a per course basis as stated in the Workforce Development and Community Education Division brochure or other literature describing the course.

A student may pay tuition at any of the campuses.

SENIOR CITIZEN TUITION POLICY

Residents of the State of Delaware who are 60 years old or older may enroll at Delaware Tech tuition free, in any catalog course, technical or related studies, day or evening. Delaware Tech/University of Delaware AA Program credit courses are also included. Special interest courses are excluded. Persons eligible for this privilege are not required to pay application, course registration, or other related fees. They shall pay the cost of all books, supplies, laboratory/ material fees, and shop fees. The Application and Student Services fee is waived. This privilege may be limited or denied in courses for which selective admissions criteria have been established. This privilege is granted on a space-available basis.

RESIDENCY POLICY

1. Residency status is determined when a student first registers at the College and when reentering after an absence. Students whose in-state status (see items 3. and 4. below)

- changes will be charged out-of-state tuition when they re-register at the College.
- 2. A student may have his/her residency status changed for a future semester's registration period if the student provides documentation that he/she has met the requirements in items 3, and 4, below.
- 3. Students 18 years old or older are considered to be Delaware residents if one of the following conditions are met immediately prior to registration:
 - Delaware has been their domicile and continuous residence for at least six (6) months
 - They have been employed (full-time) at least 30 hours per week in Delaware for at least six (6) consecutive months, or
 - They were dependents of their parents or guardians, who met the Delaware residency requirements above. The student must have been a dependent, as defined by the Internal Revenue Service, in the tax year immediately preceding the current College fiscal year. A copy of IRS Form 1040 or Form 1040A, or a state income tax return showing the student is a dependent, is the only acceptable documentation.
- 4. Students who are minors (under 18 years old) are considered to be Delaware residents if their parent or guardian meet one of the following conditions immediately prior to registration:
 - Delaware has been their domicile and continuous residence for at least six (6) months. or
 - They have been employed full-time in Delaware for at least six (6) consecutive month
- 5. Conditions for foreign students:
 - Students who are permanent or temporary resident aliens are considered to be Delaware residents if they meet the residency requirements in items 3. and 4. above. The six-month period of domicile and continuous residence commences when the student has received an INS Form I-797 indicating receipt of an application for such immigration status.
 - A student who has sought the protection of the United States by applying for refugee, asylee, parolee or temporary protected status may be entitled to in-state status if such student otherwise qualifies for in-state tuition based on six months domicile and continuous residence in Delaware from the date of the applicable INS Form I-797 or at least



- six (6) consecutive month's full-time employment in Delaware immediately prior to registration.
- A student who is present in the United States and has an immigration status that does not require such student to maintain a foreign domicile as a condition of immigration status may acquire in-state status if such student otherwise meets the six (6) month domicile and continuous residence and/ or six (6) consecutive month full-time employment in Delaware requirement immediately prior to registration.
- A student with an F, J or M visa or who otherwise must not abandon or has no intention of abandoning his or her residence in a foreign country will not be afforded in-state status.
- Documentation establishing residency or Delaware employment shall be required for all new or reactivated students.
 - A. Documentation of residency shall require one of the following:
 - Delaware driver's license or Delaware identification card dated at least six months prior registration.
 - A copy of a Delaware Resident Income Tax Form in the name of the student or the student's parent, legal guardian or spouse with whom the student resides listing a date of residency at least six (6) months prior to registration.
 - Copies of utility bills in the name of the student or the student's parent, legal guardian or spouse with whom the student resides for six (6) consecutive months prior to registration.
 - A copy of a fully executed lease, HUD-1 settlement statement or deed in the name of the student or the student's parent, legal guardian or spouse with whom the student resides dated at least six (6) months prior to registration.
 - Copies of bank statements in the name of the student or the student's parent, legal guardian or spouse with whom the student resides for six (6) consecutive months prior to registration and bearing a Delaware address (other than a post office box.)
 - Copies of official documents confirming the receipt of any type of social service assistance from the State of Delaware or any political subdivision thereof (i.e. WIC benefits, food stamps, Medicaid, etc.) in the name of the student or the student's parent, legal guardian or spouse with whom the student resides for six (6)

consecutive months prior to registration.
B. Documentation of Delaware employment shall require all of the following:

- Pay stubs or other official written confirmation from an employer demonstrating that the student or the student's parent, legal guardian or spouse with whom student resides has worked an average of at least 30 hours per week during the six (6) consecutive months prior to registration. A letter from the employer on the employer's letterhead shall be sufficient.
- IRS Form W-2 showing payment of Delaware income taxes or a copy of any state income tax return for the immediately preceding tax year showing the payment of income taxes to the State of Delaware.
- 7. Residency status shall be determined by the Registrar's Office at the student's home campus. Chief Legal Counsel may approve the payment of in-state tuition based upon documentation that is not listed in paragraph 6. when he or she determines that such documentation is authentic and represents proof of Delaware residency or employment.
- 8. This policy is primarily for tuition payment purposes and is not applicable for determination of student financial aid eligibility.
- 9. Implementation details for this policy may be specified in the College's Manual of Procedural Guidelines.
- Active duty military personnel and their dependents stationed in the State of Delaware are exempt from the six (6) month residency requirement and are considered in-state residents for tuition purposes.
 - In addition, military, civilian and contractor personnel and their dependents that are reassigned to Aberdeen Proving Ground, Maryland from Ft. Monmouth, New Jersey on or before September 15, 2011, and chose to reside in Delaware shall be exempt from the six (6) month residency requirement and shall be considered in-state residents for purposes of tuition.
- 11. Contracts written with businesses or other groups sending their employees or members to the College may include a provision for the contracting party to be charged in-state tuition.

INSTALLMENT PAYMENT PLAN

Fall and Spring Semesters:

Students may use the College's Installment Payment Plan. The amount of the first payment is equal to



one-third of the total tuition and course fees. The second installment payment is equal to one-half of the remaining account balance, and it is due four (4) weeks from the beginning of the semester. The third and final installment payment is due eight (8) weeks from the beginning of the semester, and it is equal to the remaining account balance.

Summer Semester:

Students may use the College's Summer Installment Payment Plan. The first installment payment is due at the time of registration. The amount of this payment is equal to one-third of the total tuition and course fees. The second installment payment is equal to one-half of the remaining account balance, and it is due three (3) weeks from the beginning of the semester. The third and final installment payment is due six (6) weeks from the beginning of the semester, and it is equal to the remaining account balance.

Important: Final payment must be made prior to the first day of registration for the following semester. A data hold will be placed on any student account that has a past due balance, and delinquent accounts are referred to a third party collections agency.

TUITION/FEE ADJUSTMENT POLICY COURSE OR SEMESTER WITHDRAWAL

To receive an adjustment for a course drop, the student must first officially drop the course. See Course Drop procedure or Registrar for details on officially dropping a course. To receive an adjustment for a semester withdrawal, the student must first officially withdraw from all courses. Students will not be charged any tuition or refundable fees (lab, technology support and telecourse) for courses dropped during the first week of the session. Students will be responsible for 50% of the assessed tuition and refundable fees for courses dropped during the second week of the session. After the second week, any courses dropped are not refundable. The following fees are non-refundable: application, registration, late registration, student services, credit by examination, and evaluation of work experience. The official drop/add/withdrawal period for each session is listed on the academic calendar.

EARNED TITLE IV FINANCIAL AID

Students who receive federal financial aid are eligible for payment according to their enrollment status and attendance. Students who attend more than 60 percent of a semester (approximately 9.6 weeks of a 16 week semester) are eligible to receive 100 percent of their payment. Students who attend 60 percent or less of a semester are eligible to receive a percentage of their

payment, depending on the date of withdrawal from all classes. This percentage payment is done according to the Return of Title IV Funds Regulations. (34 CFR 668.22)

- If the amount of earned federal financial aid is not adequate to pay institutional charges, the student is liable for any outstanding debt the student may owe the college. In addition, the student may be responsible for repaying a portion of his/her federal financial aid to the federal government.
- Earnings from the Federal Work Study Program are not used in this calculation. The student is paid what he/she earns.
- 3. Students receiving loans must maintain half-time enrollment (at least 6 credits) in order to receive payment of the loan.
- Basic-level courses (courses beginning with 00) do not count toward enrollment status for Title IV Funds.

This policy applies to federal financial aid money only and will be the policy applied to students who withdraw from all classes.

The date of withdrawal from all classes that will be used in the calculation is the date that the Registrar's Office processes the official College Withdrawal Form used by students who wish to withdraw from all their classes during the semester. Students must contact the Registrar's Office to obtain this form. The withdrawal date for students who drop all their classes without using the official College Withdrawal Form will be the last documented dates of attendance or the mid-point (50% point) of the semester without documentation. Withdrawing from the College may affect a student's eligibility for future financial aid funding.

Federal law requires that students who receive federal financial aid must attend the classes for which they register in order to receive financial aid payment. Students who never attend a class will not receive any federal financial aid relating to that class, even if an official drop/withdrawal procedure is completed.

The complete policy and additional information about financial aid are available on the Delaware Tech Web page, www.dtcc.edu/financialaid, that provides

ongoing updates to all financial aid opportunities and the College's refund policies.

BOOKS & SUPPLIES

Books and supplies vary in cost according to course requirements. Instructors will inform students about



texts, supplies and materials required in each course. This information is also available on the College's website.

MALPRACTICE INSURANCE

Students enrolled in allied health and nursing programs are required to purchase malpractice insurance through Delaware Technical Community College.

STUDENT SERVICE FEE

For students taking credit courses, a nonrefundable fee of \$20 per semester for full-time students and \$10 per semester for part-time students will be charged by each campus. Senior citizens are exempt from paying this fee. The Delaware Tech/University of Delaware Associates in Arts Degree Program student service fee is the same.

APPLICATION FEE

For new students taking credit courses - \$10. This fee is non-refundable.

LAB FEES

Fees vary -- \$10 per lab hour up to a maximum of 6 hours or \$60 per course. There are program specified exceptions wherein the lab fees may be less or more, depending on program needs. Industrial education course lab fees are determined by the specialized equipment utilized in the course.

REGISTRATION FEE

All students who register for fall, spring, and summer sessions will be assessed a \$15.00 Registration Fee per session for credit courses only. Students can make registration changes without an additional fee being charged. The Registration Fee is non-refundable.

TECHNOLOGY SUPPORT FEE

\$7.75 per credit hour per semester to support cost of technology, instructional/course materials, and Internet e-mail/access for all credits taken.

LATE REGISTRATION FEE

Students registering on or after the first day of the session, will be charged a late registration fee of \$25. The fee may be waived by the campus Dean of Student Affairs for the following reasons: (1) a disabling accident, certified by a physician; (2) a serious illness, certified by a physician; or, (3) campus or College functions that are beyond the control of the student, such as campus closings or problems with administrative systems.

The late registration fee is to apply only to credit courses and other courses listed in the College catalog. The fee will not apply to students who register during the open registration period and find a need to add courses afterward.

EVALUATION OF PRIOR LEARNING/WORK EXPERIENCE FEE

For students seeking College credit through the evaluation of prior learning or work experience, a fee equivalent to tuition for a one-credit course will be charged for each course in which a student requests credit, effective with the fall semester 1993.

OTHER FEES AND CHARGES

- Credit by Examination Fee
- Graduation Fee \$25
- Additional fees or changes to existing fees are subject to action by the Board of Trustees.

All fees listed above are non-refundable. All tuition and fees are accepted for payment of student accounts, pending final audit of those accounts by the Business Office.

Students will be responsible for reimbursing the College for payments made to third parties on their behalf for charges such as online access for distance education courses, telecourse rental fees, student malpractice insurance, etc. These "pass through" charges are non-refundable.

FINANCIAL AID STUDENT FINANCIAL ASSISTANCE PROGRAMS

The College offers financial assistance to students through federal, state, institutional and scholarship programs. Financial aid information is available on the Delaware Tech Web site at https://www.dtcc.edu/admis sions-financial-aid/financial-aid-scholarships. Students are encouraged to use these resources.

The Free Application for Federal Student Aid (FAFSA)



and scholarship applications may be obtained from the Financial Aid Office at each campus or on the Web at www.fafsa.ed.gov. Follow the instructions included with the application(s) to apply for any type of financial assistance. All students are encouraged to apply for financial aid as early as possible - before the start of a new academic year. It is important to ask questions, read all information carefully, keep copies of everything, and answer all questions on the application(s) accurately. The Financial Aid Office makes all decisions regarding financial aid eligibility.

For more information call:

 Owens
 (302) 259-6080

 Stanton
 (302) 454-3997

 Terry
 (302) 857-1040

 Wilmington
 (302) 434-5552

GENERAL STUDENT ELIGIBILITY REQUIREMENTS FOR ALL FINANCIAL AID PROGRAMS

The applicant must:

- 1. Be a U.S. citizen or eligible non-citizen.
- 2. Have a high school diploma, a GED®, or demonstrate the ability to benefit from instruction by passing an approved test.
- 3. Have a valid Social Security number.
- 4. Be enrolled as a regular student in an eligible program of study leading to a degree or diploma. New students must apply for admission in order to select a major/program. Undeclared or nondegree seeking students (students with program designation UND or NASNAD) are not eligible for financial aid.
- 5. Maintain satisfactory academic progress as defined by the College's Academic Standing Policy for financial aid recipients.
- Not be in default on a previous student loan nor owe a refund on any federal grant received at Delaware Tech or any other institution the applicant may have attended.
- 7. Demonstrate financial need based on federal or institutional policies.
- 8. Comply with all procedures for verification.
- 9. Meet any other legal requirements passed into law and regulation at any time by the federal government, or any policy change made by the College or any other applicable entity, and any procedure required by the Financial Aid Office in order to ensure that a proper financial aid decision can be made.

APPLYING FOR FINANCIAL AID

The College will attempt to assist any student seeking financial aid. Financial aid eligibility decisions for all financial aid programs are made by each individual campus.

A student seeking financial aid must apply to the campus he/she will attend.

The steps for applying for financial aid are as follows:

- 1. Apply each academic year.
- 2. Students are encouraged to apply online at FAFSA.ED.GOV or mail the application in the envelope provided.
- 3. Obtain the financial aid application (the Free Application for Federal Student Aid-FAFSA) from any campus. This application is appropriate for applying for all types of federal, state and institutional aid. Scholarship programs require a separate application.
- 4. Complete the FAFSA using the appropriate federal 1040 income tax form, as filed by the students and parents, and any other supporting documents such as W-2 forms, state tax returns and Social Security, welfare, bank and investment statements.
- 5. Complete all institutional forms and supporting documentation as requested by the campus.
- The campus will receive an electronic Institutional Student Information Record, which will be used to determine eligibility for financial aid. Students will receive an electronic or a paper Student Aid Report.

A student must file the FAFSA, complete a Master Promissory Note and complete Loan Counseling to be considered for a Stafford Loan. Stafford Loans are available through the Federal Family Educational Loan Program (FFELP).

SCHOLARSHIPS

Various scholarships are offered at all campuses. A student should contact the Financial Aid Office, at the campus where he/she is enrolled, for a list of scholarships offered at that campus. Scholarship information is also available on the College's website.

VETERANS, SERVICE MEMBERS AND DEPENDENTS OF DECEASED/DISABLED VETERANS AND SERVICE MEMBERS

Delaware Technical Community College is approved for the educational training of veterans, qualified spouses, and dependents of deceased/ disabled veterans under Public Law 89-358. Veterans and dependents of deceased/disabled veterans interested in obtaining



information and applying for benefits should contact the Office of Veterans Affairs at the campus they plan to attend.

 Owens
 (302) 259-6058

 Stanton
 (302) 454-3926

 Terry
 (302) 857-1056

 Wilmington
 (302) 857-5307

Veterans seeking educational VA benefits for the first time must submit a copy of their Service Discharge Form DD-214, DD-215 or DD Form 2384-1 to the Office of Veterans Affairs and complete a VA Form 22-1990, Application for VA Educational Benefits. Dependents of deceased/disabled veterans seeking educational VA benefits for the first time must complete and submit a VA Form 22-5490, Application for Survivors' and Dependents' Educational Assistance. These forms are available in the Office of Veterans Affairs.

The Department of Veterans Affairs issue a Certificate of Eligibility to the applicant as verification of entitlement. All veterans and dependents of deceased/disabled veterans must complete the College admission process before educational benefits can be received.

For information about the Priority of Service Policy for Veterans and Eligible Service Members, visit the Priority of Service Policy (Student Handbook, College Catalog).

OTHER MILITARY PERSONNEL

Active military, National Guard and Military Reserve personnel may be eligible for educational benefits related to their service category. Information concerning these benefits is available from the Educational Office of each service category. The College will verify enrollment for students so that benefits may be accurately processed.

VOCATIONAL REHABILITATION

The Delaware Division of Vocational Rehabilitation and the Vocational Rehabilitation Education Division of the Veteran's Administration have funds available for students with physical disabilities. Applications for these services should be made to the appropriate Rehabilitation Office.

Academic Policies and Procedures

ADVANCED STANDING

Students are encouraged to pursue advanced standing during the admissions process. Credits earned through advanced standing will be entered on the student transcript by the Registrar as they are received from the Dean of Instruction. Types of advanced standing are

explained below.

CLEP and DANTES

Students who have taken CLEP (College-Level Examination Program) or DANTES (Defense Activity for Non-Traditional Education Support) tests may request CLEP or DANTES to forward the results to Delaware Tech for evaluation for credit for courses. Specific CLEP or DANTES tests which apply to the student's academic program may be granted corresponding Delaware Tech credit.

Credit by Examination

A student may receive credit for courses offered at Delaware Technical Community College by taking a competency evaluation administered by the department chairperson or his/her designee. The exact nature of the evaluation will be determined by the evaluator. In order to apply for credit by examination, the student must have completed the admissions process and request approval in writing for the course in which he/she wishes to receive credit by examination. In addition, the student must not have received prior instruction at Delaware Tech in the course in which he/she is seeking credit by examination.

Since no instruction has taken place, a grade will not be assigned to credits awarded by examination. Successful completion of a course by examination will appear on the student's transcript as "Advanced Credits." Credits earned by way of examination may not be applied toward the residency requirement of the College. A fee equivalent to tuition for one credit hour will be assessed for each course which a student attempts to complete by examination.

Advanced standing credits will appear on the transcript of a declared student only upon completion of at least one term of instruction and provided the student is in satisfactory academic standing.

Credit for Advanced Placement Tests

The College recognizes the Advanced Placement Program offered through the College Board of the Educational Testing Service and grants credit, upon documentation, for Advanced Placement Test scores of three or higher. In order to obtain Advanced Placement credit, the student must submit official test scores to the Admissions Office for review by the appropriate chairperson.

Credits from Foreign Institutions

College-level credits earned at institutions outside the United States may be evaluated for transfer. Students



will be required to submit transcripts with an official English translation by a professional foreign educational credentials evaluation service such as Worldwide Educational Service, North American Educational Group, AACRAO International Education Services, or International Education Research Foundation, if the original language for the institution is not English.

Age Limits on Courses

Delaware Tech does not apply blanket age limits to courses for the purpose of transfer in, meeting selective admissions programs' ranking/entrance procedures, or meeting program requirements in award completion. Age limits on courses for any of these purposes must be recommended by the relevant department chairpersons and approved by Academic Affairs administrators. Approved age limits on courses will be related to the competency(ies) students/graduates must demonstrate in the field, employment and other measures such as certification exams.

Approved time limits on applicability of courses to program admission and completion is available in program admission documents and on program web pages.

Evaluation of Transfer Credits

Credits from postsecondary institutions that are accredited by a U.S. Department of Education approved regional accrediting association will be accepted, if they apply to the established curricula of Delaware Technical Community College (Delaware Tech) and meet other requirements listed below.

Transfer Credit Evaluation Process:

- The student must request and arrange for an official transcript from transferring institution to be sent to Delaware Tech.
- The student must be admitted to Delaware Tech before transfer credits will be evaluated or posted to the student's academic history/transcript.
- The Delaware Tech department chairperson who has oversight for the subject will evaluate course(s) for equivalent learning outcomes to a Delaware Tech course(s) when the following criteria is met:
 - The student earned a grade of "C" or better in the course being evaluated for transfer:
 - The course is applicable to a Delaware Tech major;
 - The course is eligible for transfer consideration based on the Age Limits

on Courses Policy. Approval of transfer credit for a course does not mean the transfer credit will satisfy selective programs' admission requirements or will apply to academic program requirements.

APPROVED AGE LIMITS FOR TRANSFER IN OF COURSES

DELAWARE TECH PROGRAM AND COURSES	YR. LIMIT (date approved by Deans)
CIS - Computer Information Systems	5 years (9/14)
CNE - Computer Network Engineering Technology	5 years (9/14)
CSC - Computing & Information Systems	5 years (9/14)
ISY - Information Security	5 years (9/14)
MLT-Medical Laboratory Technician	5 years (10/14)
WIS – Web Information Systems	5 years (9/14)

- Students requesting transfer credit may be required to provide supporting materials such as the course description(s) from the institution's catalog and/or course syllabus (syllabi) to complete the transcript evaluation.
- Once evaluation of the course(s) is complete,
 Delaware Tech will post all transferred courses
 to the student's Delaware Tech academic
 history/transcript.
- Notification of accepted and/or declined courses will be sent to students via the Delaware Tech email system.
 - Students may inquire with the appropriate department chairperson about declined transfer courses.
- Transfer credits may not be applied toward the residency requirements of the College.
- Students may check with their department chairperson regarding time limits and applicability of transfer courses to program admission and completion. Information is also available in program admission documents and in program web pages.
- Transfer credits for developmental courses will be accepted if the Delaware Tech department chairperson responsible for the developmental courses(s) approves the transfer course as equivalent to the Delaware Tech course(s). Transfer credit for a developmental course exempts relevant portions of the Accuplacer test.
- Students transferring to Delaware Tech with a previously awarded associate, baccalaureate,



master, or doctoral degree from a postsecondary institution accredited by a U.S. Department of Education approved regional accrediting association will receive advanced standing (transfer) credit for Critical Thinking and Academic Writing (ENG101) and Composition and Research (ENG102).

Inter-Campus Transfer of Advanced Standing Credits

Advanced standing credits approved by a Delaware Tech campus department chairperson and dean of instruction become a part of the student's permanent record and will not be suppressed or negated by any other campus of Delaware Technical Community College.

Internal Career Education Pathways Guidelines

Internal Career Education Pathways Guidelines provide a bridge for completion of Workforce Development and Community Education (WDCE) non-credit programs/courses to advanced standing in designated Instructional Division credit programs/courses. A list of these approved opportunities is available from the campus WDCE office, the campus Registrar and academic counselors. To receive advanced standing, the student must:

- Successfully complete the approved WDCE course(s) and demonstrate mastery of course objectives as required for advanced standing.
- Request to receive advanced standing within the credit program's time frame for credit course transfer.
- Be admitted into the credit program.

Advanced standing for a non-credit course(s) does not exempt students from demonstrating college readiness. If the student's Accuplacer scores indicate they need developmental course work the completed non- credit course(s) does not exempt them from the required developmental courses.

Military Credits

Credits earned through military training and service with a grade of "C" or better may be evaluated for transfer if the courses were taken at a regionally accredited college or university. Courses must meet time limit guidelines, be applicable to a Delaware Tech major, and have equivalent learning outcomes to a Delaware Tech course. The American Council on Education's Guide to the Evaluation of Educational Experiences in the Armed Services is used in the evaluation of military training and experience for academic credit.

Prior Learning/Work Experience Assessment

Students seeking college credit through evaluation of non-credit prior learning or work experience must complete the competency based evaluation form to initiate an application for Prior Learning/Work Experience evaluation by the Department Chairperson. Students must be accepted in a program to apply for the evaluation process. Upon acceptance for the process, the student will pay a fee equivalent to tuition for a one-credit course.

Once the department chairperson accepts the student for the evaluation process, the chairperson or his/her faculty designee will guide the student to submit documentation to complete the evaluation process.

Transfer-Back Policy

Students who have transferred from Delaware Tech without earning an associate degree, diploma, or credit certificate may complete program requirements by transferring back courses that have been earned at other institutions and are approved as relevant to the award requirements of the major at Delaware Tech. If the student attended Delaware Tech within two calendar years, the transfer-back course(s) would be entered upon the student's record when the courses are accepted by Delaware Tech. If the student has not been enrolled in Delaware Tech for any of six consecutive terms, including summer sessions (two calendar years), the student must follow the readmission process and current curricular requirements for graduation. Time limits on completed Delaware Tech courses, as well as courses being transferred back, must meet departmental guidelines. The student must satisfy all requirements for graduation, including credits in residence.

Appeals Process

To appeal the evaluation or transferability of a course or prior learning/work experience evaluation, the student must submit a written request to the department chairperson responsible for the course for re-evaluation of advanced standing credit. The appeal must be made within 60 days of the notification of the declined course(s) and must include documentation for re-evaluation. Upon receipt of the appeal, the department chairperson will submit a copy of the appeal to the dean of instruction. The department chairperson will inform the student in writing within 14 working days if additional documentation for further evaluation is needed. The department chairperson will inform the student in writing of the final transfer credit decision.

ATTENDANCE

Each student is expected to attend class regularly in order to achieve maximum benefit from instruction. Course requirements and evaluation measures are



specified in writing and distributed at the beginning of the course. Attendance per se is not an approved evaluation measure. However, evaluation measures may necessitate attendance in order to demonstrate mastery of course objectives.

Faculty must maintain attendance records to comply with requirements related to veterans' and service members' benefits, social security benefits, and financial aid and scholarship programs, etc.(Rev. 6/29/12)

CONTRACT FOR ACADEMIC PROGRAM COMPLETION

The courses required for completion of each academic program are listed in the College Catalog and on the program sequence sheet. When a student is admitted and enrolled at the College, the course requirements in effect at that time are considered the academic program contract for the student. When a student changes his/her major or requires College readmission, the student's academic program contract is updated to the one currently in effect. Program requirements for completion are periodically updated. To take advantage of curriculum updates, a student may request approval from his/her department chairperson to change his/her academic program contract to reflect current requirements. A student may not change to a contract that was in effect prior to his or her initial enrollment in the academic program.

CURRICULUM CHANGES

A student may change his/her curriculum by consulting with a faculty advisor or counselor. Signatures are required from the advisor and counselor of the department from which the student is withdrawing, as well as from the advisor and counselor of the department to which the student seeks to be admitted. A completed Change of Program/Status Form must be returned to the Registrar's Office for the change of curriculum to become official.

COURSE DROP PROCEDURE

Students may choose to drop a course(s) by submitting a completed drop form to the Registrar or by completing the online drop procedure in Self-Service Banner. (The day the completed form is received by the Registrar's Office determines the official date of the course drop.) No approvals are required for students to drop a course(s) within the established time frames explained below. The following guidelines apply.

Courses dropped during the first two weeks of the

semester (including the first two weeks of sessions 1, 2 and 3) will not show on the student's transcript and no grade will be recorded. Students will not be charged any tuition or refundable fees (lab, technology support and distance learning) for courses dropped during the first week of the semester (including week one of sessions 1, 2 and 3). Students will be responsible for 50% of the assessed tuition and refundable fees for courses dropped during the second week of the semester (including week two of sessions 1, 2 and 3). The following fees are non-refundable: application, registration, late registration, student service, credit by examination and evaluation of work experience. (See Tuition/Fee Adjustment Policy for detailed rules.) If a student drops a course and still maintains full-time load status, then he/she will not receive a refund.

From the third week through the tenth week of the semester (session 1), students may drop a course(s) and receive a "W" grade on their transcript. The "W" grade does not impact cumulative GPA, but it may negatively impact "time to completion" under the Financial Aid Satisfactory Academic Progress policy.

After the tenth week, courses may not be dropped. Student requests to drop a course(s) after the tenth week, with a grade of "W" for the course, will be considered only under extraordinary circumstances, which must be documented and approved by the Dean of Instruction or the Dean's designee.

The above timeframes for dropping a course(s) will be adjusted for academic sessions shorter than sixteen weeks.

Students who do not officially drop a course(s) according to these guidelines, but stop attending the course will receive an Unofficial Withdrawal grade (U) for the course. An Unofficial Withdrawal grade is calculated in the cumulative index as 0 quality points. An Unofficial Withdrawal grade in a course may affect financial aid or veterans' service members' benefits eligibility. The College is required by law to submit attendance reports on students who are funded by veterans' service members' benefits, social security payments and other state, federal and private financial aid and scholarship programs.

Students considering a course drop or withdrawal should weigh the impact on completion of their educational goals. Students should also check with the Financial Aid Office regarding the impact of dropping or withdrawing from courses on their financial aid eligibility and responsibility for costs. Instructions for dropping courses are available on the College's website.

WITHDRAWAL FROM THE COLLEGE

Students who wish to drop all of their courses should notify their department chairperson or program advisor.



The chairperson or advisor will provide information to the student to help him/her consider the implications of the withdrawal and inform him or her of any college services and programs that may help him or her remain enrolled. The student's decision will be recorded in his/her Student Educational Plan. Students who decide to officially withdraw from the College with no plans to return within two years (six semester timeframe) should complete an Official Withdrawal form. Students are advised that Official Withdrawal will result in the requirement for re-admission, should the student decide to return in the future. In that event, the student will be required to complete the academic program requirements in effect at the time of readmission.

COURSE ADD PROCEDURE

Students may add a course or switch course sections by submitting a completed add form to the Registrar or by completing the online add procedure in Self-Service Banner. (The day the completed form is received by the Registrar's Office determines the official date the course is added/section is changed.) The following guidelines apply for session1, 2 and 3 courses.

During week one of the semester (including sessions 1, 2 and 3), students may add a course(s) or change sections if a seat is available. No approval signatures are required except under circumstances in which the course is part of a program with a selective admission process. In those cases, the signature of the Department Chairperson/designee responsible for the course is required.

During week two of the semester (including sessions 1, 2 and 3), students may add a course(s) or change sections if a seat is available and they obtain the approval of (1) the instructor and (2) their program advisor or the chairperson of the department that offers the course.

During week three of the semester, students may add a course(s) or change sections if a seat is available and they obtain the approval of (1) the instructor, (2) their program advisor or the chairperson of the department that offers the course, and (3) the dean of instruction or designee for the campus where the course is offered.

The above timeframes for adding a course(s) will be adjusted for academic sessions shorter than eight weeks.

Students should check with the Financial Aid Office regarding the impact that adding courses may have on their financial aid eligibility and responsibility for costs.

READMISSION TO THE COLLEGE

Students who have previously attended Delaware Technical Community College must follow the readmission process when they have not been enrolled at Delaware Tech for six consecutive terms including summer sessions (two calendar years). Readmitted students will be responsible for the current requirements of the program they are entering. Readmitted students will have a new contract year to reflect the current graduation requirements of the program. (Rev. 4/30/14)

VETERANS AND SERVICE MEMBERS READMISSIONS POLICY

I. Readmission Eligibility Requirements

Delaware Technical Community College students who interrupt their studies to perform service in the United States military are subject to separate readmissions procedures. Students who withdraw, take a leave of absence, or otherwise leave their studies at Delaware Tech on or after August 14, 2008, in order to serve in the U.S. Military, are subject to these readmission procedures if they meet the following conditions:

- (1) The student served in the U.S. military for a period of more than thirty (30) consecutive days and provides appropriate documentation to prove such service to the Coordinator for Veterans and Service Members at his or her campus of enrollment.
- (2) The student gave advance written or oral notice to the Coordinator for Veterans and Service Members at his or her campus of enrollment. A student is not required to indicate whether he or she intends to return to Delaware Tech upon completion of military service in the advance notice. Furthermore, the advance notice need not come directly from the student, but rather, can be provided by an appropriate officer of the United States Armed Forces or official of the United States Department of Defense. Advance notice is not required if it is precluded by military necessity. In such cases, the requirement for advance notice can be fulfilled by the student's filing of an attestation that the student performed military service at the time the student seeks readmission.
- (3) The student's cumulative length of absence from Delaware Tech to perform U.S. military service, including all previous absences to perform U.S. military service and only the time the student spent actually performing military service did not exceed five (5) years. The five-year length of absence period does not include any service:



- i) That was required, beyond five (5) years to complete an initial period of obligated service; or
- ii) During which the student was unable to obtain orders releasing the student from a period of service in the U.S. military before the expiration of the five-year period through no fault of the student: or
- iii) That the student was ordered to or retained on active duty.
- (4) The student must have notified the Coordinator for Veterans and Service Members at the campus within three (3) years of the end of the U.S. military service of his or her intention to return to Delaware Tech. However, a student who is hospitalized or recovering from an illness or injury incurred in or aggravated during the U.S. military service must have notified the Coordinator for Veterans and Service Members within two (2) years after recovering from the illness or injury of his or her intent to return to Delaware Tech.
- (5) The student did not receive a dishonorable or bad conduct discharge or have been sentenced in U.S. court-martial proceedings.

Students should contact the Coordinator for Veterans and Service Members at the campus of their enrollment to determine their eligibility for readmission under this Policy.

II. Readmission Procedures

Students who meet all of the above conditions ("eligible students") shall be *promptly readmitted* to Delaware Tech at the *same academic status* as the student had prior to leaving for military service.

A. <u>Promptly Readmitted</u>

Promptly readmitted means that the College will readmit the eligible students into the next class or classes in the service member's program beginning after the service member provides notice of his or her intent to reenroll, unless the service member requests a later date of readmission in writing to the Coordinator of Veterans and Service Members (not to exceed the time frame outlined in section I.3). A later date of admission may also be imposed on the service member for unusual circumstances, such as the time period

required to prepare the service member to resume his or her course of study at the College.

B. Same Academic Status

Same academic status means that the College readmits the service member:

- To the same program to which he or she was last admitted by the College unless the student requests or agrees to a different program. In the event that the program to which the student was last admitted is no longer offered, the College will readmit the veteran to a course of study that is most similar to the program that was discontinued.
- 2. At the same enrollment status that the student last held at the College, unless the student requests admission at a previous enrollment status.
- 3. With the same number of credit or clock hours completed by the student, unless the student is readmitted to a different program to which the credit or clock hours are not transferable.
- 4. With the same academic standing (e.g. with the same satisfactory academic progress status) the student had at the College immediately prior to leaving for military duty.

College placement test fees and placement test policies may be waived upon a review of the veteran's previous test(s) and submittal of military service documentation submittal to the campus Coordinator for Veterans and Service Members.

C. <u>Tuition and Fee Responsibilities</u>

For the *first academic year* in which the eligible student veteran returns to Delaware Tech, that student who is readmitted to the same academic program must also be readmitted with the same tuition and fee charges the student was or would have been assessed for the academic year in which the student left for military duty unless any increase of the prior amount is covered by the student's service member educational benefits. Should that veteran be readmitted to a different academic program in his/her first academic year upon return, the student may be charged the same tuition and fees as others in that academic program. Likewise, in all subsequent academic years and for any program in which the student was readmitted, the member of the armed forces may be charged the same tuition and fees as the others in the student's program.

If the veteran has an outstanding balance from previous year(s), the veteran must pay the balance by the end of the first semester s/he returns. If the balance is not paid by the end of the returning semester, then the College's business office will place a hold on his/her account (and s/he will therefore be blocked from class registration)



until the debt is paid.

D. <u>Program Preparation</u>

Should the eligible student's academic department determine that the member of the armed forces is not prepared to resume the program with the "same academic status" at the point where the student left off, or will not be able to complete the program, the College will make reasonable efforts at no extra cost to the student to help the student become prepared or to enable the student to complete the program including, but not limited to, providing refresher courses or placement testing at no charge to the veteran. If a veteran requests reinstatement preparation, then student will be referred to his/her program advisor who will discuss available options and route the student to the appropriate academic department for possible program preparation actions. The determination of possible program preparation actions is decided by the academic department which offers the course. If program preparation is not deemed necessary by the academic department, but the veteran feels preparations are necessary, then the veteran bears any financial burden preparation necessitates.

The veteran will be awarded any program preparation at no extra cost for those eligible students who require such preparation as determined by the relevant academic department. This includes any additional fees (supplies and or books) that may be required for program. In the event that program preparation is completed through a course, the veteran should return to the Coordinator for Veterans and Service Members to coordinate costless course registration and book/supply purchasing with the business office and with the Delaware Tech bookstore. The veteran will not be charged a registration fee if the program preparation course is the only course the veteran registers for during that semester. If the program preparation is completed through a course and the veteran is receiving VA benefits, the course will be certified through the VA for reimbursement. If the veteran is receiving VA benefits but is not awarded VA benefits which cover 100% of the tuition and fees, the veteran will not be responsible for the remainder of the bill. The veteran may request that the course not be certified through the VA for reimbursement. In such cases, the student will not be charged for the course.

Once the veteran has met with his/her program advisor, the advisor will update the veteran's Student Educational Plan (SEP). If program preparation is deemed necessary by an academic department, the academic department will note this in the veteran's SEP. The notation should include how the preparation will take form, evaluation of preparation results, and any dates by which preparation must be complete.

If the student does not complete the program preparation adequately within the amount of time

designated by the academic department, then the veteran is then responsible for completing such program preparation without financial assistance from the College. This may delay timely reentry into the student's program.

E. Denial of Readmission

Veterans who do not meet the eligibility requirements set forth in the above are not entitled to be readmitted pursuant to this Policy. In addition, the College is not required to ultimately readmit the eligible student veteran on his or her return if:

- 1. After reasonable efforts by Delaware Tech, the College determines that the student is not prepared to resume the program at the point where he or she left off.
- 2. After reasonable efforts by Delaware Tech, the College determines that the student is unable to complete the program; or
- 3. The College determines that there are *no* reasonable efforts the College can take to prepare the student to resume the program at the point where he or she left off or to enable the student to complete the program.

AGE LIMITS FOR COURSES APPLIED TO GRADUATION

(Approved 4/30/14) Students may apply all approved transfer in and Delaware Tech completed courses toward certificate, diploma and degree requirements as long as they meet program specific requirements for technical relevance to the career field as measured by external outcomes such as licensure or certification exams. Program specific age limits on major or major support courses that may be applied to completion requirements are collegewide decisions approved by the academic program Chairperson(s), Deans of Instruction, and Associate Vice President for Academic Affairs/Vice President for Academic Affairs. These decisions are not subject to appeal. The list of approved age limits on major or major support courses which can be applied to program completion are below and can be found on the Delaware Tech Academic Programs web pages.

APPROVED AGE LIMIT FOR COURSES APPLIED TO GRADUATION

DEPARTMENT	DELAWARE TECH COURSES	YR. LIMIT
Human Services	HMS244	10 (June 25, 2014)
Drug and Alcohol Counseling	DAC244	10 (June 25, 2014)
Nursing	BIO120, BIO121, BIO125, MAT129,	10 (Aug. 10, 2014)



CHEM100

Computer Computer 5 years (9/14) Information Information Systems Courses* Systems - CIS Computer Network Computer Network 5 years (9/14) Engineering Engineering Technology - CNE Technology* Computing and Computing and 5 years (9/14) Information Information Science - CSC Science* Information Information 5 years (9/14) Security - ISY Security* Medical Laboratory Medical Laboratory 5 years (10/14) Technician - MLT Technician* Web Information Web Information 5 years (9/14)

*Courses completed more than five years ago will not be approved for transfer in to Delaware Tech. Courses completed at Delaware Tech or transferred in more than five years ago may only be applied to graduation requirements for students who have remained in active status (taking courses at least once every 6 semesters and not requiring readmission).

Systems*

GRADE POINT SYSTEM (4.00)

The grade point average (GPA) for each student is based upon the scale of grade point values, and it is weighted for each course by its credit value. Cumulative grade point averages (CUM) are also based on the grade point values, and these have been maintained for all students enrolled since the fall of 1977. Effective fall 2012, the following grading policy is in effect:

Grading Policy

Systems - WIS

A 92-100

B 83-91

C 75-82

F 0-74

Note: From fall 1991 until fall 2012 a "R" grade was used instead of an "F."

The following is the College's grading interpretation:

Grading Interpretation

A Student meets the measurable objectives in an outstanding manner

B Student meets the measurable objectives in an above-average manner

C Student meets the measurable objectives

F Student has not met the measurable objectives and must repeat the course

L Listener/Auditor (with approval only)

I Incomplete

S Continuing Satisfactory (used only in courses with numbers under 100)

W Withdrawal with approval from College



U Withdrawal without approval from College

The following grades are included in the GPA calculation:

- A 4.0 grade point value
- **B** 3.0 grade point value
- C 2.0 grade point value
- **F** 0.0 grade point value
- **U** 0.0 grade point value

The CUM includes the inactive grades "D" (Distinctive) and "P" (Proficient), which became inactive in the Fall Ouarter of 1978.

- **D** 4.0 grade point value
- P 2.5 grade point value

Note: Students who receive an "S" grade and are receiving veterans Administration educational benefits will be paid for the course during the first term of enrollment only. If the student reregisters for the course, the course cannot be included in the total Veterans Administrations credit hours reported for benefits.

All students who receive an "S" grade must re-enroll in the course within the succeeding term in order to improve his/her grade unless exception is made by the Dean of Instruction or his/her designee.

The following grades are excluded from the GPA calculation:

I Incomplete

L Listener/Auditor

W Withdrawal with approval from the College

The following grades are given in Basic and Pre-Tech courses and are excluded in the GPA calculation:

AE Meets measurable objectives in an outstanding manner

BE Meets measurable objectives in an above average

CE Meets the measurable objectives

FE Has not met the measurable objectives and must repeat course

SE Continuing satisfactory

Definition of Terms:

Grade Point Value

is the value assigned to grades "A", "B", "C", "F" and "U". The inactive grades of "R," "D" and "P" will continue to carry grade point value historically.

Quality Point

is the product of the grade point value multiplied by the quality hours of the course.

Quality Hours

are the credit-hour value of those courses which are used in the calculation of the grade point average.

The Term GPA

is the total quality points earned during the term divided by the total quality hours attempted. Pre-tech and Basic courses will not be included in the calculation of term GPA. Term GPA will not be recalculated unless one of the two following conditions occurs: (1) an "I" grade is resolved or (2) a grade change is authorized.

Cumulative GPA

is the total cumulative quality points earned divided by the total cumulative quality hours attempted. The cumulative GPA is an historic index of all work taken at Delaware Tech and is not recalculated when a student changes majors. Work taken at other institutions is not included in the calculation of the cumulative GPA. Pre-tech and basic courses are no longer included in the cumulative GPA. The cumulative GPA at the end of each term will not be recalculated unless one of the two following conditions occur: (1) an "I" grade is resolved or (2) a grade change is authorized.

ACADEMIC AMNESTY PROCEDURE

The following criteria and application has been created to aid currently enrolled students who began their studies at Delaware Technical Community College prior to the conversion to a Semester system in the Fall of 1993 (94-1). To qualify, a student must complete The Petition for Academic Amnesty form and submit the form to the Dean of Instruction or his/her designee.

The following conditions apply:

- 1. Any student who has a non-completion grade (R, U) in a course prior to the Fall of 1993 (94-1) or has an enrollment date prior to 94-1 and has successfully repeated the course(s) (A, B, C grade) or the semester equivalent may petition the Dean of Instruction or his/her designee to eliminate the non-completion grade from the CUM grade point average calculation. Each non-completion grade in the same course will be eliminated from the CUM GPA calculation.
- 2. The student must submit a written application for Academic Amnesty to the Dean of Instruction or his/her designee.
- 3. If the request for Academic Amnesty is approved, the non-completion grade (R, U) will be replaced with an administrative grade (AR, AU). The administrative grade (AR, AU) will not be included in the students new CUM Grade Point Average.
- 4. All students are cautioned that many undergraduate professional programs, graduate and professional schools consider all grades listed on a transcript when considering



applications for admission and scholarship.

 Academic Amnesty does not change accumulated Financial Aid history. Accumulated term and award limits include all terms of enrollment.

TRANSFER CREDIT EFFECT ON CUMULATIVE GRADE POINT AVERAGE

Students who have received approval for the transfer credit for courses previously completed at Delaware Tech with grades of "R," "F" or "U" may request that the effect of the "R," "F" or "U" grade be removed from their cumulative grade point average by submitting a request to the Registrar's Office with a copy of their unofficial transcript. All grades and courses remain on the student's transcript.

GRADE POINT AVERAGE ADDENDUM

When a student repeats a course, the first passing grade will be calculated in the cumulative grade point average (CUM GPA). A student can request that a higher grade (for coursework 1994-01 forward) be included in the CUM GPA by submitting a request to the Register's Office for coursework that was repeated spring 2007 forward. All courses taken and grades received will remain on the student's transcript, even though some will not be used to determine GPA. Selective admissions processes, scholarships and academic award decisions at other colleges and universities may take into consideration the complete academic record of the student.

FRESH START POLICY

Any student who has not attended Delaware Tech for a minimum of three years and upon readmission, completes a minimum of 12 college-level credits in consecutive terms with at least a 2.00 G.P.A. may petition the Dean of Instruction to eliminate the course grades received prior to the readmission term in the cumulative G.P.A. calculation except courses that fulfill graduation requirements. Fresh Start is granted only one time per student and is irreversible.

Fresh Start is effective the term a student is readmitted to the College and will not exclude credits from the earned hours calculation. All grades and courses remain on the student's transcript.

INCOMPLETE "I" STUDENT EVALUATION

Incomplete ("I") Student Evaluation

An Incomplete "I" evaluation may be awarded by an instructor in situations where extenuating circumstances prevent the student from completing the course work. The following conditions must be met:

- 1. The extenuating circumstances must occur after the drop/withdraw period has ended.
- 2. The student must be making satisfactory progress in the course.
- 3. It must be reasonable to complete the remaining course work and objectives under "I" circumstances (i.e., outside of the regular course format).
- 4. Prior to an instructor agreeing to give or post an "I" grade, approval for an "I" grade must be given by the department chairperson and Dean of Instruction responsible for the course.

Students who receive an incomplete course evaluation must complete the requirements for the course within the time frame specified by the instructor or by the end of the semester following the term in which the "I" is received if no time frame is specified. Otherwise the incomplete grade will be changed to a "F" grade, and the student must register for the course in a future term. For "I" grades earned at the end of the spring semester, the student will have until the end of the fall semester to complete the requirement, unless a shorter time period is specified by the instructor. The student and instructor determine how the incomplete portion of the course will be completed. If an instructor deems it essential that an incomplete be extended beyond the deadline, a request in writing should be sent to his/her chairperson for endorsement and then to the Dean of Instruction for approval. The request should include a projected date of completion and the reason for the requested extension. A student who receives an incomplete grade does not re-register for the course.

SATISFACTORY "S" STUDENT EVALUATION

The "S" evaluation is used only in courses with numbers under 100 where the student has progressed satisfactorily. This grade can be received only one time per course. The student must re-enroll in the course within the succeeding term in order to improve his/ her grade, unless an exception is made by the Dean of Instruction or his/her designee.

Note: Students who receive an "S" grade and are receiving Veterans Administration educational benefits will be paid for the course during the first term of enrollment only. If the student reregisters for the course, the course cannot be included in the total



Veterans Administrations credit hours reported for benefits.

LISTENER/AUDIT "L" EVALUATION

Students who wish to change from credit to Listener status must change their registration status prior to the end of the "add" period and will receive an evaluation of "L" at the end of the semester.

Students may change from Listener to credit status under the following conditions:

- The request must be made prior to the end of the "add" period;
- The student must meet all admission requirements for the College Instructional Division credit programs; and,
- Must have instructor, department chair and Dean of Instruction approval

ACADEMIC RECOGNITION

President's List

To be eligible for the President's List, a student must:

- 1. Earn 12 or more credit hours in courses at the 100
 - level or above in one term.
- 2. Have a term GPA of at least 3.8.
- 3. Have no "I" or "S" grades. If "I" grades are later changed to passing grades, thereby affecting President's List eligibility, the student may request a letter noting President's List recognition. This letter may be used for employment, college transfer or other personal purposes
- 4. Receive an "A," "B," "C," or "W" in all courses of enrollment below the 100 level.

Dean's List - Full-Time Students

To be eligible for the Dean's List, a student must:

- 1. Earn 12 or more credit hours in courses at the 100 level or above in one term.
- 2. Have a term GPA of at least 3.25.
- 3. Have no "I" or "S" grades. If "I" grades are later changed to passing grades, thereby affecting Dean's List eligibility, the student may request a letter noting Dean's List recognition. This letter may be used for employment, college transfer, or other personal purposes.
- 4. Receive an "A," "B," "C," or "W" in all courses of enrollment below the 100 level.

PART-TIME STUDENTS

A student will receive a letter of recognition, signed by the Dean of Instruction and Dean of Student Affairs, if the student has earned at least 6 credit hours but less than 12 credit hours in courses in one term at the 100 level or above, has a term GPA of at least 3.25, and meets requirement 3 of the Dean's List criteria.

GRADUATION HONORS

Students earning a Cumulative Grade Point Average between 3.25 and 3.49 will graduate *cum laude*. Those earning a CUM GPA between 3.5 and 3.79 will graduate *magna cum laude*. Those earning a CUM GPA between 3.8 and 4.0 will graduate *summa cum laude*. The Graduation Honors are printed on the graduation program and the student's final transcript.

COLLEGE POLICY ON ACADEMIC INTEGRITY

College Policy On Academic Integrity

This policy was developed to define academic dishonesty and to outline sanctions for those occasions when academic integrity is breached. Academic dishonesty, in any form, will not be tolerated. Students and staff of Delaware Technical Community College have an obligation to participate in the academic life of the college in a responsible and intellectually honest manner. As members of the Delaware Tech community, students have responsibilities and duties commensurate with their rights and privileges. One of these responsibilities is to be honest and forthright in their academic work. To falsify the results of one's work, to steal the words or ideas of another, or to cheat on an examination corrupts the academic process. Students acknowledge that, subject to the terms of this policy, the College has the right to apply the sanctions outlined in this policy including to withdraw any student at any time from a course or the College when it is necessary to safeguard the College's ideals of scholarship and character.

Forms of Academic Dishonesty

1. Cheating

Cheating is an act of deception by which a student misrepresents that he or she has mastered information on an academic exercise that he or she has not mastered. Examples of cheating include but are not limited to:



- A. Copying from another student's work such as test paper, project, or computer program.
- B. Allowing another student to copy one's work.
- C. Using unauthorized materials such as a textbook, notebook, cell phone or other technology/materials during testing or competency performance without permission.
- D. Collaborating during a test or competency performance with any other person by attempting to, or actually, requesting or receiving information verbally, in writing or electronically without authority.
- E. Using specifically prepared materials during a test that are not allowed (e.g. notes, formula lists, notes written on the student's clothing or person, etc.).

2. Academic Misconduct

Academic misconduct is the intentional violation of college policies by tampering with grades, taking part in obtaining or distributing any part of an unadministered test, or submitting the same student's work in more than one class without permission. Examples of academic misconduct include but are not limited to:

- A. Stealing, buying, selling, or otherwise obtaining all or part of an unadministered test.
- B. Selling or giving away all or part of an unadministered test, including answers to an unadministered test.
- C. Bribing or coercing any other person to obtain or attempt to obtain an unadministered test or any information about the test.
- D. Changing or attempting to change a grade in a grade book, computer system, on a test, or on other work for which a grade has been given.
- E. Changing, altering, or being an accessory to the changing or altering of a grade in a grade book, on a test, on a "change of grade" form, in an electronic system or in other official College academic records that relate to grades.
- F. Obtaining or attempting to obtain an unadministered test.
- G. Submitting written work to fulfill the requirements of more than one course without the explicit permission of both instructors.

3. Fabrication

Fabrication is the intentional use of invented information or the falsification of research or other findings with the intent to deceive. Examples of fabrication include but are not limited to:

- A. Citation of information not taken from the source indicated.
- B. Listing sources in a bibliography or other report not used in the academic exercise.
- C. Inventing data or source information for research or other academic exercise including but not limited to fabrication of log entries or internship hours.
- D. Submitting as your own any academic exercise prepared totally or in part by another.
- E. Taking a test for someone else or the student permitting someone else to take a test on one's behalf.

4. Plagiarism

Plagiarism is the inclusion of someone else's words, ideas, or data as one's own work. When a student submits work for credit that includes the words, ideas, or data of others, the source of that information must be acknowledged through complete, accurate, and specific references and citations, and if verbatim statements are included, through quotation marks as well. By placing his or her name on work submitted for credit, the student certifies the originality of all work not otherwise identified by appropriate acknowledgment. The student will avoid being charged with plagiarism if academic citations have been used accurately:

- A. Whenever quoting another person's words.
- B. Whenever using another person's idea, opinion or theory, even if it is completely paraphrased in the student's own words.
- C. Whenever borrowing facts, statistics, computer programs, or other illustrative materials-unless the information is common knowledge.

Informing Students about Academic Integrity

The College will inform students about the importance



of academic integrity including its relationship to professional integrity and success in the workplace and in higher education, and its role in protecting the public trust. This policy is published in the College Catalog. Additionally, information about academic integrity and this policy is provided in the *Student Handbook*; at New Student Orientation; in SSC 100, First Year Seminar; and on the portal.

Procedures for Adjudication of Alleged Academic Dishonesty

- 1. Instructors must investigate an alleged attempted or apparent act of academic dishonesty and review the evidence and incident to ensure it is sufficient to warrant a charge of academic dishonesty.
- 2. If the instructor believes that academic dishonesty has allegedly occurred, he or she must complete an Academic Dishonesty Report providing a complete description of the incident and evidence. The instructor must forward a copy of the Academic Dishonesty Report and the evidence to his or her department chairperson and the assistant dean of instruction (assistant dean) to notify them of the alleged violation. The report must be completed and forwarded to the individuals listed above within two (2) working days of becoming aware of the alleged academic dishonesty. The original assignment, test/ examination or other evidence must be kept by the instructor.

An instructor may not assign a disciplinary grade such as "F" or zero to an assignment, test, or other coursework as a sanction for admitted or suspected dishonesty in lieu of formally charging the student with academic dishonesty.

Note: In this policy when responsibility is assigned to the assistant dean, it may include his or her designee.

3. Upon receipt and review of the Academic Dishonesty Report and evidence submitted, the assistant dean must notify the student in writing regarding the alleged academic dishonesty and must forward to the student a copy of the Academic Dishonesty Report and a copy of the evidence. The assistant dean will notify the student that once a student has been informed that academic dishonesty is alleged, the student may not drop the course until charges of academic dishonesty are resolved.

The assistant dean must make every attempt to schedule a joint meeting with the student, the instructor and the department chairperson within ten (10) working days of receiving the

Academic Dishonesty Report. When necessary, such meetings may be conducted by video-conference.

In such meetings every effort should be made to preserve a productive instructor/student relationship. The student must be given the opportunity to ask questions about all written documents and to respond to the allegation.

The student must be given the opportunity to accept responsibility for the infraction or to refute the charges. If the student accepts responsibility for the infraction, s/he must be asked to sign the Academic Dishonesty Report, thereby acknowledging that s/he is aware of the alleged violation, accepts responsibility for the infraction, and understands the possible sanctions. If the student accepts responsibility, then the assistant dean should continue to step 4 outlined below.

If the student does not accept responsibility and states that there are discrepancies in the accounts of the alleged academic dishonesty, the assistant dean will request that the student produce additional evidence/information relevant to the incident. The assistant dean may also attempt to acquire additional information, depending on the nature of the discrepancies. The assistant dean will determine and communicate to the student how long the student has to submit additional evidence. The assistant dean will review the additional evidence within 5 working days of receipt.

The student will be allowed to remain in class and complete course work until the assistant dean makes his or her determination of the outcome. If the alleged violation has not been resolved by the time grades are due, the instructor must assign the student an "I" grade. This grade will remain until the alleged violation is adjudicated.

4. If the assistant dean believes there was not an infraction of the Academic Integrity Policy, the instructor will clarify the standards of the assignment/test/examination/project with the student. In circumstances in which the assignment was not completed, an opportunity for the student to complete the assignment will be provided. In this case, the assistant dean will document the outcome on the Academic Dishonesty Report and maintain the document in the Office of Instruction.

If the assistant dean believes the student did violate the Academic Integrity Policy or if the student accepts responsibility for the infraction, he or she will determine the appropriate



sanction(s) in keeping with the Adjudication Procedures listed in this Academic Integrity Policy and will note such sanction(s) on the Academic Dishonesty Report.

The assistant dean will formally notify the student, the instructor and the department chair that the student has been found responsible for a violation of the Academic Integrity Policy and communicate the sanction(s). This communication to the student will be sent by certified letter, return receipt requested, within five (5) working days of reaching a determination that an infraction of the policy has occurred.

5. A student may appeal the decision by requesting a due process hearing with the Campus (for first and second infractions) or College (for third infraction) Academic Integrity Appeal Committee. If the student chooses to exercise his or her right to a hearing, he or she must notify the assistant dean in writing within ten (10) working days of receipt of the letter informing him or her of the decision and sanction. The student must advise the assistant dean in writing if he or she will exercise his or her right to bring an advisor or attorney to the hearing. The assistant dean will notify the chairperson of the Campus or College Academic Integrity Appeal Committee (depending on the infraction) of the student's request for a hearing.

6. Final determinations that a student completed an academic integrity infraction will be documented in the Maxient data base.

Sanctions for Academic Dishonesty

<u>First Infraction</u>: The assistant dean may impose an F grade for the course or a lesser sanction may be imposed (see example below) if warranted by the circumstances. Whenever an F grade for the course is imposed, the student will be required to complete an academic integrity tutorial within a timeframe set by the assistant dean.

An alternative sanction to the F grade may be imposed in situations in which the assistant dean believes, after reviewing the evidence and discussing the situation with the student, instructor and department chairperson, that the student did not understand his or her actions were a form of academic dishonesty and there was no intention to be dishonest. An example of this may be plagiarism by completely paraphrasing in one's own words another person's idea, opinion or theory without giving credit. In this case, the assistant

dean could require the student to successfully complete within a set timeframe an academic integrity tutorial and/or an information literacy tutorial. If the student does not complete the assigned action(s) in the timeframe set, an F grade for the course would be imposed.

Additionally, in circumstances which do not justify an F grade for the course, a zero grade will be assigned for the assignment/test/examination/project in which the infraction occurred. The student will be required to re-complete the assignment /test/examination/project to demonstrate mastery of the learning objective or to demonstrate mastery through an alternative means determined by the instructor and approved by the department chairperson. The zero and the new grade will both be factored into the final grade for the course, in accordance with the weight approved for the specific course evaluation measure within the overall evaluation measures approved for the course, which could still result in failure of the course depending on the weight of the assignment in the course grade.

Second Infraction

If the assistant dean determines that a second infraction of academic honesty has occurred in either the same or another course, the student will be assigned an automatic "F" in the course in which the second infraction occurred. The student will be required to complete an academic integrity tutorial by a date determined by the assistant dean. A registration hold will be placed on the student's record until the academic integrity tutorial is successfully completed.

Third Infraction

If the assistant dean determines that a third infraction of academic honesty has occurred in either the same or other course(s), the student will be dismissed from the College. Dismissal from the College means that the student cannot continue in any course in which he/she is enrolled. The student will receive an F grade for the course in which the infraction occurred and a W for any other course in which the student is enrolled.

Appeals

The Campus Academic Integrity Appeal Committee will hear appeals of first and second infractions. The committee is composed of the dean of instruction, a faculty member appointed by the campus director, and the dean of student affairs. The dean of instruction will chair the committee.

The College Academic Integrity Appeal Committee will hear appeals of third infractions. The committee is composed of the dean of instruction from another campus, the associate vice president for academic affairs, and the assistant vice president for student affairs. The associate vice president for academic



affairs will chair the committee.

The Campus/College Academic Honesty Appeal Committees (Committees) will conduct their proceedings as follows. The hearing is closed to the public. The chair of the Committee will introduce the written appeal to the Committee.

The Committees will discuss issues, hear testimony, question witnesses and consider available evidence pertaining to the appeal hearing. The Committees may call upon the instructors, department chairpersons, academic counselors, and anyone else who may provide relevant information. The student must have the opportunity to present statements, testimony, evidence and witnesses; refute anything brought forth to the committee and present any relevant information in his or her defense; question witnesses who support the finding of responsibility and respond to questions by the members of the Committee/s. The student may bring an advisor or attorney to the due process hearing, but must advise the assistant dean of instruction in advance of the hearing.

The Committees will determine their findings of facts and the sanction(s) based on a standard of "beyond reasonable doubt." Their written findings of facts and the sanction(s) will be submitted to the campus director and dean of instruction of the campus where the alleged infraction took place within 3 working days of the hearing, unless this time is extended for good cause by the Committee. The decision by Committee/s will be final and will be sent within 3 working days of the hearing to the student, the instructor and the department chair via certified mail, return receipt requested. The dean of instruction will authorize the registrar to record/change any grade.

The written findings of facts and the sanction(s) will be kept in a confidential file in the office of the Committee chairperson (campus dean of instruction or College associate vice president for academic affairs), and made available to the student for at least five years.

ACADEMIC STANDING POLICY

1. Academic Standing

A student's Cumulative Grade Point Average (CUM GPA) for total credits attempted must be equal to or greater than that indicated on the "Minimum Cum GPA for Satisfactory Academic Standing Table" (below) in order to be in Satisfactory Academic Standing at Delaware Tech.

The table below represents the Minimum Cumulative Grade Point Average for total credits attempted needed to be in Satisfactory Academic Standing at Delaware Tech. Official withdrawal from courses (W grades) are not counted in the GPA calculation.

<u>Credits</u>	Credits
1 - 15	≥1.5
16 - 30	≥1.6
31 - 45	≥1.8
46+	≥2.0

2. Academic Warning

The first semester a student does not earn the minimum CUM GPA required for Satisfactory Academic Standing, the student will be placed on Academic Warning and restricted to a maximum of 13 credits in the next semester of attendance.

A student who pre-registers for more than 13 credits in the next semester and is classified as in Academic Warning status after grades are processed, must make the necessary course credit load adjustment. If a student does not reduce his/her credit load to 13 or less, he/she will have their course load reduced by the program advisor. The program advisor will contact the student to provide advisement and assistance to make the credit load reduction. If the student cannot be reached or not follow-up as agreed, the student will be informed in writing, either by letter or email, before the program advisor reduces the student's credits to 13.

3. Academic Probation

A student will be placed on Academic Probation if in two successive semesters he/she does not earn the minimum CUM GPA required for Satisfactory Academic Standing for the number of credits attempted.

A student on Academic Probation is restricted to a maximum of 9 credits. A student who pre-registers for more than 9 credits in the next semester and is classified as in Academic Probation status after grades are processed, must make the necessary course credit load adjustment. If a student does not reduce his/her credit load to 9 or less, he/she will have their course load reduced by the program advisor. (The same procedure applies (explained above) as when a student must reduce his/her credit load to 13.)

4. Status after Readmission

A student who withdraws from the College while on Academic Warning or Probation will retain that status when readmitted until he/she earns the minimum CUM GPA required for Satisfactory



Academic Standing.

5. Appeal of Credit Load Restriction

A student on Academic Warning or Probation may appeal the credit restriction by completing the Academic Plan form and presenting it in person to the program advisor and Dean of Instruction/designee for approval to register for more credits than Academic Warning and Academic Probation status allow.

6. Successive Academic Probation

A student in Academic Probation status who does not earn the minimum CUM GPA required for Satisfactory Academic Standing or a semester GPA of at least 2.0 in the next or subsequent semesters will not be allow to register for the next semester unless the student establishes an Academic Plan with his advisor that is approved by the advisor and the Dean of Instruction/designee. The program advisor and Dean may approve any number of credits for registration including none for that semester.

A student who preregisters and is in the above situation after grades are processed, but does not establish an approved Academic Plan will have his/her registration deleted by the program advisor. The program advisor will contact the student to provide advisement and assistance to establish an Academic Plan. If the student cannot be reached or does not follow-up as agreed, the student will be informed in writing, either by letter or email, before the program advisor reduces the student's credits to 0.

7. Academic Suspension

Academic Suspension status is eliminated at the conclusion of summer semester 2011 (2012-53.) Students who would have been in Academic Suspension status under the previous policy will be treated as students who have been on Academic Probation for more than one semester.

Note: Satisfactory Academic Standing is just one of the three components required for "Financial Aid Satisfactory Academic Progress." The other two components are meeting "Maximum Timeframe" requirements and "Percentage of Courses Completed" requirements. See the Financial Aid Satisfactory Academic Progress Policy.

ACADEMIC STANDING POLICY FOR DEVELOPMENTAL EDUCATION

The Academic Standing Policy for Developmental

Education serves to identify students enrolled in developmental education (courses below the 100 level) who are at risk for continuing academic failure and in need of academic advisement to support their future success and retention. The non-completion course grades listed below will trigger the following academic standing actions.

- 1 FE, RE or UE grade in the same developmental course = Academic Warning (13 credit limit) plus Data Hold on registration. The program advisor's approval signature is required to register.
- 2 FE, RE or UE grades in the same developmental course = Probation 1 (9 credit limit) and Data Hold on registration. The program advisor's approval signature is required to register. Students must complete an Academic Plan with their program advisor.
- 3 FE, RE or UE grades in the same developmental course = Continuing probation status. Student must have an Academic Plan and the approval of the program advisor and the Dean of Instruction to register for courses. The Dean may disapprove registration and recommend other courses of action the student must implement before subsequent registration is allowed. The Dean's decision is final.
- After completion of developmental course in subject area with a grade of CE or better, satisfactory academic standing would be restored.

In cases in which a student is enrolled in college level credit and developmental courses, the lowest level of academic standing will take precedence. Students may initiate the academic standing review procedure to request approval to exceed credit limits imposed by academic warning and probation.

FINANCIAL AID SATISFACTORY ACADEMIC PROGRESS

Effective July 1, 2011, financial aid recipients at the College are required to maintain Financial Aid Satisfactory Academic Progress (FASAP) in accordance with this policy. This policy supersedes all previous satisfactory academic progress eligibility requirements. Federal financial aid regulations require the College to consider the student's entire academic history, including any periods of enrollment in which the student did not receive federal/state financial aid, under this FASAP policy.

FASAP includes Cumulative Grade Point Average (CGPA), completion rate, and maximum time frame requirements, as set forth below, that a student must meet in order to be eligible to receive federal/state



financial aid. FASAP is just one of the financial aid award conditions that must be met. Students should see http://www.dtcc.edu/financialaid/ for a complete list of financial aid eligibility requirements. This FASAP policy is limited to the determination of federal/state financial aid eligibility and is separate from and in addition to the Delaware Tech Academic Standing Policy and any other academic policy at the College.

The College's Financial Aid Office shall review academic progress at the end of the fall, spring and summer semesters, each of which is financial aid payment period.

As a condition of receiving federal/state financial aid, each student at the College must make satisfactory academic progress toward the attainment of his or her degree according to the following three requirements that comprise FASAP. (Other award requirements also apply.)

Minimum Cumulative Grade Point Average:

The table below represents the minimum CGPA needed to be eligible for federal/state financial aid. Official withdrawal grades are not calculated in this CGPA calculation. The CGPA is calculated using all courses taken.

GPA
>1.5
>1.6
>1.8
>2.0

Completion Rate:

Students at the College must successfully complete, on a cumulative basis, 67 percent of all credits attempted. All non-completion grades ("W," "U," "R,"/F" and "I") are used in the calculation of completion rates.

Maximum Time Frame for a Degree/Diploma or Previous Associate Degree:

A financial aid recipient is restricted to a maximum number of credits for which he/she can receive financial aid. The maximum time frame (MTF) credit allowance is 150% of the published length of the eligible educational program in which the student is currently enrolled. For example, if 60 credits are required for a specific degree, the MTF for the degree program would be 90 credits (60 x 150% = 90). The published program lengths are available on the College web site and in the Catalog.

In addition, the credits from a previous diploma or degree program earned at Delaware Tech or elsewhere that are applied to a new degree program at Delaware Tech will be counted toward the MTF for the new degree program.

Maximum Time Frame for Remedial Courses:

Basic and Pre-technical classes are considered remedial courses. Basic classes are not eligible for federal financial aid payment, but are used in calculating the

remedial MTF.

The MTF for a student enrolled in remedial courses is 30 semester hours. This MTF value is separate from the degree or diploma MTF value. No extension is permitted for a student who exceeds the 30-credit remedial limit.

Repeat Coursework:

Repeating failed coursework may be funded by financial aid. In addition, one repetition of previously passed coursework is eligible for federal financial aid. However, a previously passed course is not eligible for financial aid if it is being repeated because the student failed other coursework (e.g., must repeat the course again because of co-requisite requirements).

Repeating a course may improve CGPA, but each attempt impacts the completion rate and maximum time frame.

Transfer Students:

Coursework completed at another institution that is officially accepted as transfer credit by the College counts toward MTF and the cumulative completion rate. However, the grades from other institutions do not transfer to the College and are not considered under the minimum CGPA component of FASAP.

FASAP Process

End of Semester Review

The Financial Aid Office will review the academic record of each financial aid recipient at the end of each semester to determine if she/he is making satisfactory academic progress for program completion. Students who do not meet one or more of the CGPA, completion rate, or MTF requirements listed above are not considered to be making satisfactory academic progress and are subject to the following:

Financial Aid Warning

Beginning with the Fall 2011 semester, the first time the student has not met the CGPA or the completion rate, the student will be notified that he/she has been placed on Financial Aid Warning status. A Financial Aid Warning allows a student to continue to receive financial aid for only the next semester. A Financial Aid Warning will be assigned automatically and does not require an appeal or other action by the student. At the end of the Financial Aid Warning semester, the student who does not meet the FASAP requirements is ineligible to receive further federal/state financial aid unless the student makes a successful Financial Aid Appeal as described below. In the absence of a successful Financial Aid Appeal, the student may only regain eligibility for federal/state financial aid by meeting the College's FASAP requirements at his or her own expense.

A student who exceeds MTF requirements is not eligible to be placed on *Financial Aid Warning* status. Instead,



beginning with the Fall 2011 semester, the first time the student has not met MTF the student must make a successful *Financial Aid Appeal* in order to be eligible for further federal/state financial aid.

Financial Aid Appeal and Probation

A student who does not meet FASAP requirements after the *Financial Aid Warning* semester, or a student who exceeds MTF for the first time, may appeal to have financial aid eligibility reinstated if extenuating circumstances prevented the student from meeting FASAP. Such circumstances include:

- Medical condition, illness or injury, to the student or an immediate family member (Provide documentation)
- Death of an immediate family member (Provide documentation)
- Change or loss of employment for you or an immediate family member (*Provide* documentation)
- Other special circumstance (Be Specific)

The Financial Aid Appeal process requires the student to complete a Delaware Tech Financial Aid Appeal Form. The student must explain on the Appeal Form the reason(s) the student failed to make FASAP and what has changed in the student's situation that would allow the student to make FASAP at the next evaluation. Relevant documentation must be attached.

In addition, the Financial Aid Appeal process requires the student to submit an academic plan signed by a program advisor with the completed Financial Aid Appeal Form to the Financial Aid Office by the appeal deadline for that semester. The academic plan sets forth the requirements the student must meet to make FASAP. The academic plan must include the maximum number of credits recommended by the program advisor for the time period of the academic plan. Please note that if a student registers for additional credits beyond the number approved in the academic plan, then the student is responsible for the cost of those additional credits. However, a student may receive financial aid for additional credits beyond those approved in the academic plan only if a new academic plan signed by a Program Advisor and Dean of Instruction authorizing these additional credits is submitted by the student to the Financial Aid Office by the appeal deadline for that semester.

The Financial Aid Office will respond in writing with the results of the appeal and explain what the student must do to reestablish eligibility for federal/state financial aid. Submitting an appeal does not guarantee that the student will regain financial aid eligibility. The decision of the Financial Aid Office regarding the *Financial Aid Appeal* is final.

If a FASAP appeal is not approved, then the student is ineligible for financial aid until satisfactory academic

progress is achieved at his/her own expense.

If the appeal is approved by the Financial Aid Office, the student is then placed on Financial Aid Probation. A student placed on Financial Aid Probation may receive federal/state financial aid as long as the student is satisfying the requirements of an approved academic plan.

Financial Aid Probation

If after the one semester of Financial Aid Probation, the College determines that the student achieved FASAP, he/she will have his/her financial aid eligibility reinstated for the next semester of attendance. Thereafter, such student's academic progress will be evaluated in accordance with this FASAP policy.

If after the one semester of Financial Aid Probation, the College determines that the student met all the requirements of his/her academic plan, but did not achieve FASAP, he/she will be permitted to continue to receive financial aid for the next semester and subsequent semesters of attendance provided that the student continues to meet all of the requirements of the academic plan.

If after the one semester of Financial Aid Probation, the College determines that the student did not meet all the requirements of the academic plan nor successfully achieved FASAP, the student will lose financial aid eligibility until the student achieves FASAP at his or her own expense. Students may make another appeal for financial aid eligibility by submitting a new Financial Aid Appeal Form and providing a new academic plan. However, students are advised that Financial Aid Appeals for academic plan deficiencies will only be approved for changes to the student's major and required courses - or in the most extenuating of circumstances- as determined by the Financial Aid Office.

All information is subject to change based on revisions to federal laws, regulations, or college policies and procedures. Students are required to abide by any such revision

CREDIT HOURS

Students registered for 12 or more credit hours (or equivalent) are considered full-time. A student registered for less than 12 credit hours per semester is considered to be part-time. The class hours, laboratory hours, and total credits are printed in the College Catalog following each course description. The total credits, class hours and laboratory hours are printed. *Example:* (4:3:3)



CREDITS IN RESIDENCE

Candidates for the associate degree must complete a minimum of twenty-four (24) credits of course work at Delaware Technical Community College. At least twelve (12) credits of the residence requirement must be major courses from the program in which the degree is awarded. Candidates for the diploma must complete twelve (12) credits of the residence requirement with six (6) credits in major courses. Candidates for the certificate must complete all course credits at Delaware Technical Community College, Credits earned under the Advanced Standing Policy may not be applied toward the residency requirements of the College. Exceptions to this policy may be made with the approval of the Deans of Instruction. Assistant Vice President for Curriculum and Instruction and Vice President for Academic Affairs.

CREDITS IN RESIDENCE FOR ACTIVE-DUTY SERVICE

Academic residence for all degrees for active-duty service members is limited to no more than twenty-five percent of the degree requirements. Of the twenty-five percent, at least twelve credits of the residence requirement must be in major courses from the program in which the degree is awarded. Academic residence can be completed at any time while active-duty service members are enrolled. Reservist and National Guardsmen on active-duty are covered in the same manner.

GRADUATION POLICY

A student is eligible for graduation when the following requirements have been met: (1) The student has satisfactorily completed courses specified for a degree or diploma in his/her program/major area as certified by the department chairperson and the Dean of Instruction and verified by the Registrar; (2) The student has filed an official application for graduation with the Office of the Dean of Student Affairs; (3) The student has satisfied all financial obligations owed the College; (4) The graduation fee has been paid; and (5) The Credits in Residence requirements have been met. No Delaware Technical Community College diploma or degree is to be awarded or the student allowed to participate in official graduation ceremonies unless that student has completed all requirements for said diploma or degree. Exceptions to this policy may be made by the Vice Presidents/Campus Directors and/or the Vice President of Academic Affairs.

Campuses

SUSSEX COUNTY LOCATION

JACK F. OWENS CAMPUS 21179 College Drive Georgetown, Delaware 19947 (302) 259-6000

The Owens Campus, named for the College's first Vice President and Campus Director, is the county hub for higher education. The 146-acre campus provides Sussex County with comprehensive educational opportunities, including degree programs, skill development, pre-college youth programs, and community outreach. This optimum level of programming enables the campus to serve 16,000 people each year.

The College is accredited by the Middle States Commission on Higher Education. In addition, 13 programs have earned national program accreditation by their professional accrediting organization. This status ensures that the educational processes at the campus are of the highest quality, meeting rigorous national standards. Each program has a community-based advisory board of employers that enables programs to be up-to-date and to produce work-ready graduates.

The complex of buildings includes: the Jason Technology Center (classrooms, engineering, computer and medical labs, educational technology labs, faculty offices, bookstore); the Arts & Science Center (health programs, the Learning Center, theatre, art gallery); Student Services Center (admissions, registration, business, financial aid, counseling services, student activities, dining hall); Stephen J. Betze Library; Child Development Center; Trades & Industry Building; Environmental Training Center; the Center for Language and Culture; and the William A. Carter Partnership Center, which features partnerships between the College and the county's public schools and senior institutions of higher education.

Through its partnerships with Delaware State University, Wilmington University, and the University of Delaware, Delaware Technical Community College graduates have the opportunity to pursue selected bachelors, masters, and doctoral degree programs at the Owens Campus.

Other facilities on campus are the horticulture center and a recreational complex. Off-campus sites include a facility for Commercial Transportation training located at the county industrial airpark, and the John & Elsie Williams Conference Center in Millsboro.

To broaden and strengthen the educational opportunities for its students, Delaware Technical Community College has "connected degrees" with colleges/universities in Delaware, Maryland, and Pennsylvania. Following an established curriculum for a connected degree, students earn the associate degree at Delaware Technical Community College and then



take specific courses to complete the bachelor's degree with the partner institution.

Reinforcing its commitment to community service, the Owens Campus has established educational partnerships with Cape Henlopen School District, Gumboro Community Center, and Bethany/Fenwick Chamber of Commerce. These partnerships enable residents to seek higher education or pursue non-credit offerings at a convenient local site.

STEPHEN J. BETZE LIBRARY

The Stephen J. Betze Library holds over 60,000 physical items, including print and recorded books, journals, newspapers, and DVDs. Borrowers can have additional items delivered free of charge through the statewide Delaware Library Catalog. Students also have access to continuously updated online databases for electronic research.

Equipment and facilities available to students include networked desktop computers, printer/photocopiers, scanner, fax machine, and group and individual study areas. Additional information is available on the Delaware Tech libraries' webpage at https://www.dtcc.edu/student-resources/libraries.

INSTRUCTIONAL COMPUTER

Twenty instructional computer labs are located in the Jason Technology Center. Each lab contains a total of 20 student workstations and one instructor's workstation that is connected to an overhead video projection unit for student viewing. The labs also contain a VCR and a high speed laser printer.

The Open Lab, available to all students during the day and evening, has 60 computers with CD-RW drives that contain the same software utilized in the classroom labs. Specialized software offers additional support to students in their areas of study. The Open Lab also contains transcription machines, workstations, scanners, laser and color printers.

The Learning Center offers peer and instructor tutoring, computer assistance, and course related software programs. The programs and services of the Learning Center are available to all students at Delaware Technical Community College, Owens Campus.

CAREER PLANNING & PLACEMENT

The Career Services Center is the point of contact for students and alumni who want to learn about career opportunities.

The Career Services Center is the central location for reference books, online college catalogs, and resume critique services. The Center offers a variety of services including an internet-based career planning program, interviewing techniques, job search strategies, occupational information, career building workshops, an electronic employment data bank that offers employers,

students, and alumni an exclusive opportunity to post jobs and resumes, as well as college transfer information and internet access.

ATHLETICS/RECREATION Intercollegiate Athletics

The Owens Campus competes in Region 19 of the National Junior College Athletic Association (NJCAA) in three sports: baseball, softball and golf. Athletic eligibility is certified through the Athletic Director's Office and verified on the regional and national level by the NICAA.

Recreation Facilities

As a community focal point, recreational activities are planned for both student and community use. Outdoor amenities include a Life Course, picnic pavilion, baseball and softball fields, regulation horseshoe pits, a marked walking track, and volleyball courts. Indoor facilities available for students include basketball, volleyball, table tennis, a fitness and wellness center.

NEW CASTLE COUNTY LOCATIONS

Delaware Technical Community College's Stanton/George Campus has two locations in New Castle County. The Stanton Campus location is in a suburban area of the county, and the George Campus location is about seven miles away in downtown Wilmington. Free shuttle bus services run between the two locations during daytime hours.

Stanton/George Campus

STANTON: 400 Stanton-Christiana Road Newark, Delaware 19713 (302) 454-3900

Situated on a hundred acres of rolling countryside, the suburban Stanton Campus site is located just off Exit 4 of Interstate 95. The campus' convenient location allows easy access from all parts of New Castle County. Instructional facilities at Stanton include nursing, computer, science, and engineering technology laboratories, a culinary arts kitchen and demonstration dining room, automotive programs and laboratories, a newly renovated library and career center, and computer labs. The campus has a spacious and modern cafeteria and bookstore, a conference center which holds up to 250 people, and instructional television classrooms. Instructional television classrooms are equipped with state-of-the-art distance learning technology; both fiber optic and satellite equipment are utilized. The Industrial Training Facility houses the industrial training programs in areas such as employee development and environmental health and safety.

Stanton Campus enrolls more than 11,000 students in



day and evening credit courses and non-credit corporate and community program courses.

Programs offered include science and engineering technologies, nursing, criminal justice, and culinary arts.

GEORGE: 333 N. Shipley Street Wilmington, DE 19801 (302) 571-5300

Located in the Christina Gateway section of downtown Wilmington, the campus consists of three modern education buildings. The East Building houses the cafeteria, bookstore, classrooms, career center and laboratories for instructional purposes. The West Building contains instructional classrooms and laboratories, and the library. A 450-car capacity garage and surface parking facilities are adjacent to the Campus. The Southeast building includes classrooms, labs, offices, a dental clinic, an amphitheater with seating for 100, and an instructional television studio.

Credit and non-credit enrollment at the Wilmington location totals over 6,000 students yearly. Academic programs offered include allied health, public service and business/computer-related programs.

An extensive English as a Second Language program and federal and state-funded job training programs offered by the Workforce Development and Community Education Division are also available at the Wilmington campus site.

STANTON/GEORGE CAMPUS LIBRARIES

The Stanton/George Campus has library collections which are tailored to the technologies offered at each location. The library databases provide numerous articles from journals, technical magazines, other periodicals, and reference works. The Delaware Library Catalog provides information on the book, audiovisual, magazine, and journal holdings of both campus sites as well as the holdings of the public and some academic libraries in Delaware. The combined library collections have over 69,000 volumes/items and 600 periodicals on general and technical topics. Daily courier service transports books and other materials from one campus site to the other and to other libraries in the state.

Both libraries offer a number of desktop and laptop computers for in-house use. Listening and viewing equipment is available along with scanners, and copy machines. Group study rooms, individual study carrels, study tables, and comfortable lounge seating are provided as well. Additional information about the libraries is available on the "Libraries" page of the College website.

Stanton/George Campus Libraries have a Web presence at https://www.dtcc.edu/student-resources/libraries.

MICROCOMPUTER LABS

Both campuses have several computer classrooms as well as a designated open lab that students can use outside of class hours. Lab personnel are always available to offer assistance.

All students taking credit classes will receive an Internet e-mail account after registration. The account will remain active as long as the student continues to register for each semester without interruption. The Internet is used in many classes for research as well as communication with the instructor. All computer labs and libraries on campus have Internet access. Limited remote access allows students with suitable home computer equipment to check their e-mail from home.

CAREER PLANNING & PLACEMENT

The Career/Placement Centers offer career assistance to students and members of the community. Services include DISCOVER (a computerized career planning program), individual and group counseling, interest and skills assessment, job search strategies, and college and transfer information. The centers hold career and job information in the forms of publications, slides, films, videos and books. Students receive assistance in the total job-hunting process including interview preparation, resume writing and job-search techniques. A list of up-to-date full-time and part-time jobs is also available for students.

ATHLETICS/RECREATION Intercollegiate Athletics

The Stanton/George Campus competes in intercollegiate athletics as a member of the National Junior College Athletic Association (NJCAA), which includes schools in New Jersey, Southeastern Pennsylvania and Delaware. The women's volleyball team has been consistent Region 19 Champions, and many campus athletes from all sports have been named to All-American teams.

Athletic eligibility is certified through the Athletic Director's Office and verified on the regional and national level by the NJCAA. Students from either campus compete in: women's volleyball, men's soccer, men's basketball, and women's softball. The campuses have also sponsored students with outstanding success in individual sports (for example, golf, tennis, cross country, wrestling) in NJCAA regional and national events.

Recreational Facilities

The Stanton/George Campus has a variety of recreational facilities for student use. A multipurpose gymnasium and athletic fields accommodating a wide range of recreational, intramural and collegiate sporting events are located at the Stanton Campus site. Racquetball and basketball courts are available at Wilmington. Both locations contain Fitness Centers housing Nautilus and other fitness-related equipment. Activity Coordinators organize intramural sport



programs throughout the school year.

KENT COUNTY LOCATION

CHARLES L. TERRY CAMPUS 100 Campus Drive Dover, Delaware 19904-1383 (302) 857-1000

Named in honor of the late Governor Charles L. Terry, Jr., the Terry Campus is located in the northern part of Dover, Delaware's capital city. The Campus serves as a higher education resource located in central Delaware. The Terry Campus prides itself on the personal attention it provides its students. Each matriculated student is assigned both a counselor and an advisor to help guide them through their chosen academic program. More than 4,000 full-time and part-time students enroll each year in diversified associate degree programs, diploma and certificate programs and special interest offerings.

All degree, diploma and credit certificate programs have published competencies students will master upon program completion. Program areas include energy management, engineering technology, health care, surgical technology, business, and public services. The Campus' Workforce Development and Community Education Division provides an additional resource for individuals and employers with customized training and retraining services.

The Campus' learning environment offers on-campus and distance education courses to meet students' educational needs. Classes meet in the Terry Building, Science and Engineering Technology Center, Conference and Training Center, Center for Energy Education and Training, and Education & Technology Building. Classroom instruction is supplemented by individualized resource learning labs. The lab facilities provide students with flexible and varied opportunities to master course objectives and curriculum competencies.

Classes are conducted year-round with day, evening and weekend offerings. Applicants are accepted for each of the academic semesters, as well as the summer session. Financial aid and scholarships are available to qualified applicants. The Conference Center provides WiFi capability, Voice and Video over Internet Protocol (VoIP) technology that enhances distance learning in the classroom, and seating for up to 600 people, which can be divided to accommodate simultaneous programs.

TERRY CAMPUS LIBRARY

The Terry Campus library is located in the Terry Building, on the first floor, directly behind the receptionist desk. Library hours are posted and online at our College wide Library web site for each library at

https://www.dtcc.edu/student-resources/libraries. The Terry library provides academic support to students and faculty of Delaware Tech through a variety of services. A technical lending library of resources is available through the Delaware Library Catalog and college specific databases are available through the Blackboard portal.

A Delaware Tech I. D. is required to register as a library patron and to utilize the library services.

Terry Library offers a number of desktop computers for in-house use. Group study rooms are also provided.

Terry Library has a Web presence at https://www.dtcc.edu/student-resources/libraries

RECREATION FACILITIES

The Terry Campus has a Wellness Center that houses a variety of strength training and cardiovascular equipment. The programs provide regular exercise, health/wellness education and recreational workouts for the benefit of the students and employees. Cardio-Kinetics, Inc. has a full-time Exercise Physiologist who manages and operates the Wellness Center Monday through Friday. The professionally staffed facility is open daily to all students and employees who present a current Delaware Tech ID card. Outdoor facilities include tennis, volleyball and basketball courts, athletic fields, walking trails, and a picnic pavilion.

Programs of Study

At Delaware Technical Community College students may be accepted in associate degree, diploma or certificate programs.

ASSOCIATE DEGREE PROGRAMS

The Associate in Applied Science degree curricula prepare students for immediate employment and provide a balance between the studies necessary to earn a livelihood and those needed for understanding and participating in social, political, and cultural activities. The Associate of Arts in Teaching Degree curriculum prepares students to transfer to a senior institution in order to complete a baccalaureate degree in teaching. Classes are scheduled in the early morning, late afternoon, evening and/or weekends to meet the students' demands. Distance Education classes are also available. The College provides quality instructors, experienced Academic counselors, and other support staff to all students.

If you plan to transfer to another college after completing an associate degree at Delaware Technical Community College, consult with your program advisor



to determine whether your associate degree program is articulated with a senior institution. These connected degree programs (www.dtcc.edu/connecteddegree/) have transfer provisions you need to know. For other transfers, consult the College catalog or the Admissions Office of the institution which you plan to attend as soon as possible. Transferability of courses and programs is determined solely by the institution to which the student transfers.

DIPLOMA & CERTIFICATE PROGRAMS

Diploma and certificate programs and courses prepare students for specific employment. All programs are tailored to meet the needs and abilities of the individual and to provide a marketable skill which will enable him/her to compete successfully in the job market. Additional information may be obtained by calling the Admissions Office at your nearest campus.

STUDY ABROAD OPPORTUNITIES

Delaware Technical Community College is currently offering short-term study abroad courses. These credit courses with an integrated study abroad component are generally offered during the summer semester lasting approximately ten to twenty-one days. Many of these courses can/will be accepted as an elective to curriculum programs. For a list of current study abroad opportunities, contact your International Education Coordinator at your home campus or visit the International Education webpage at: http://www.dtcc.edu/future/international.

COOPERATIVE EDUCATION/INTERNSHIP PROGRAMS

Cooperative Education/Internship is a partnership between the student, business, industry, government, or service agencies, and the College. This work experience is available in selected academic programs and may be scheduled for one or two semesters. The College classroom exposes the students to facts, theories, and principles; the student applies those principles and theories in an actual job environment. A student on a co-op/internship can receive training and experience in a professional environment that supplements learning in a campus lab, classroom, or library.

ENGLISH AS A SECOND LANGUAGE

The ESL program serves the varied needs of persons for whom English is not a native language. Participants can

develop communication skills which will enable them to succeed in the United States. English skills will be developed so that students can prepare themselves to participate more independently in American society and, if they desire, pursue a college degree.

SPECIALIZED OCCUPATIONS

The Specialized Occupations program was established to meet the special training needs of Delaware business, industry, and professions. The objectives are twofold:

- 1. To satisfy the educational needs of employers and employees in areas where employment opportunities are too limited to justify establishment of formal education programs.
- To prepare employees for new or increased responsibilities at their present place of employment through a combination of college-level studies and appropriate on-the-job experience.

WORKFORCE DEVELOPMENT AND COMMUNITY EDUCATION

The Workforce Development and Community Education (WDCE) Division provides a broad range of education and training geared to meet specific workforce development and community education needs. The Division serves its constituency through programs in four main areas: Conferences & Seminars, Community & Continuing Education, Corporate & Contract Training, and Workforce Training. The Workforce Development and Community Education Division is the outreach arm of the College, encompassing special projects not available through other instructional areas.

DISTANCE EDUCATION

Delaware Technical Community College offers The Center for Creative Instruction and Technology (CCIT)

Mission

The mission of the Center for Creative Instruction and Technology at Delaware Technical Community College is to assist and inspire educational creativity and excellence.

The CCIT staff pledges to enable, educate, and support our academic partners as they combine their subject matter expertise with our understanding of instructional design and state of the art educational technology applications. Together, we will strive to design experiences that increase student performance,



satisfaction, and demonstrate innovation in both face-to-face and virtual learning environments.

Services

The CCIT staff is available to provide the following services.

- Instructional Design and Technology Consulting and Services
- Administration of the Instructional Design and Technology Certificate Program
- Multimedia Consulting, Training and Production
- Foundational Technology Consulting, Training and Support
- · Research Assistance and Support
- · Special Projects

Blackboard 9 Overview

Blackboard 9 features a streamlined navigation system and improved course setup process. The latest version of Blackboard offers new and improved social learning tools such as blogs and journals, easier navigation, and other Web 2.0 technologies that allow for greater interactivity and collaboration. Blackboard 9 uses a Web 2.0 interface that allows users to drag and drop items that appear on the screen, select from drop down menus, and access contextual help.

Interface

Course content creation and editing tools are embedded throughout the course and no longer require the instructors to access the Control Panel. Instructors click on the Edit Mode switch in the top right corner of any Blackboard page.

All options in the Control Panel are available from the main Course Menu. Instructors have direct access to edit and organize the Course Menu and may use the drag and drop feature to change the order of menu items. Course Menu items that do not contain any content are automatically hidden from student view but are visible to the instructor while in Edit Mode.

In addition, Bb 9 has eliminated the separate receipt page that the user sees every time they successfully perform an action. Confirmations now appear on the same page on which the user is working.

File Collection and Exchange

The Digital Drop Box has been replaced by the Assignments Tool. This tool allows instructors to download all of the student files for a particular assignment in a single zip file. Blackboard automatically renames each student's file to include the name of the assignment, the student's username, and the filename the student originally submitted. There is a Group File Exchange that works like the old Digital Drop Box, for Groups only.

Blogging and Journal Tools

Blackboard 9 has a built in private Blog and Journal tools that allow students to create and share ideas with their instructors or other students enrolled in the same class. Both of these tools may not be viewed outside Blackboard.

Individual journals allow students to record what they are learning. These thoughts can be private between a student and instructor or shared with others in the course. The author and the instructor can add comments. Group journals allow groups of students to reflect collaboratively and comment on group member's finding.

Individual blogs provide each student in a course with their own area to share thoughts and work with others in the course. Students are able to receive comments and feedback on their individual blog from others in the course. Course blogs allow users in a particular course to share thoughts and work in a common area where all the students in the same course can read and add comments. Group blogs allow groups of students in a course to collaboratively post thoughts and comments on each other's work while everyone else in the course can view and comment on the groups' entries.

Groups

Instructors can now create any number of groups at once. Students can randomly be assigned to groups, manually assigned by the instructor, or asked to sign-up for a group themselves. Students can create their own self-enrollment groups, although instructors have the option of modifying or restricting access to the student created groups.

Redesigned Grade Center (formerly the Grade Book) Instructors can enter results, scores, percentages, and other forms of grading directly into the Grade Center spreadsheet. This inline editing process is similar to Microsoft Excel. Each grade entered into the Grade Center is automatically saved.

The Grade Center automatically records each grade's history. If an instructor or TA changes a grade, the grade history will show the new grade, the old grade(s), when the grade(s) was changes and who made the changes. Instructors can create "Smart Views" that categorize students based on selected criteria. This is helpful for courses that have been combined as instructors are now able to view students by section. It also works well for instructors who use TA's and want to divide the management of student grades between those TA's. The Grade Center supports average grade and minimum/maximum grade calculations. Instructors are now able to drop the lowest score easily. Instructors have the ability to create and print grade reports.

Blackboard Technical Support

To speak with a support analyst, call toll free 1-855-836-3517 weekdays 8:00 am to midnight and anytime on the weekends. Delaware Tech Blackboard



Support Chat is always available, 24x7, 365 days a year by visiting https://chat.perceptis.com/c/dtcc.

DELAWARE TECHNICAL COMMUNITY COLLEGE/UNIVERSITY OF DELAWARE ASSOCIATE IN ARTS DEGREE PROGRAM

Owens, Terry and Wilmington Campuses

The Delaware Technical Community College/ University of Delaware Associate in Arts Degree Program is a liberal arts program primarily for students interested in areas of study offered by the University of Delaware's Colleges of Arts and Sciences, Business and Economics, Education, Agriculture and Human Resources. The program consists of University courses taught by University faculty.

A student may earn a University of Delaware associate degree by completing 60 credit hours of instruction in his/her area of concentration. A bachelor's degree is awarded by the University of Delaware to a student who continues at the University, completing a minimum of 124 credits, including general University requirements, group and major requirements. (Minimum credits may be higher in certain majors.) Admissions decisions consider the student's academic record, Scholastic Aptitude Test scores, and recommendations from their high school. A student is offered admission and provided with an evaluation of total qualifications that indicate potential for success.

Financial aid is available to assist qualified students. Applicants must complete the College Scholarship Service Financial Aid Form. Application is made through the University of Delaware Admissions Office. Applications are available at Delaware Technical Community College, the University, or at any Delaware high school guidance office.

Please visit the Delaware Technical Community College or University of Delaware Web sites at www.udel.edu or www.dtcc.edu for more information.



DELAWARE TECHNICAL COMMUNITY COLLEGE ACCREDITATIONS AND CERTIFICATIONS

<u>CAMPUS</u>	TECHNOLOGY	AGENCY
Owens Owens	Airframe Maintenance Technology Architectural Engineering Technology	Federal Aviation Administration (FAA) Engineering Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ETAC of ABET)
Owens	Automotive Technology	National Automotive Technicians Education Foundation (NATEF) for Automotive Service Excellence (ASE)
Owens	Business Accounting, General Business, Management, Marketing	Association of Collegiate Business Schools and Programs (ACBSP)
Owens	Civil Engineering Technology	Engineering Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ETAC of ABET).
Owens	Commercial Transportation (Tractor Trailor Driver Training)	Professional Truck Driver Institute, Inc.
Owens	Design Engineering Technology	Engineering Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ETAC of ABET).
Owens	Diagnostic Medical Sonography	Commission on Accreditation of Allied Health Education Programs (CAAHEP)
Owens	Early Childhood Education Early Care and Education (Birth to Second Grade)	Delaware Department of Education
Owens	Early Childhood Education Early Childhood Development	Delaware Department of Education
Owens	Education* Math Secondary Education	Delaware Department of Education
Owens	Education* Elementary Education Option	Delaware Department of Education
Owens	Education* Paraeducator	Delaware Department of Education
Owens	Human Services	Council for Standards in Human Service Education (CSHSE)
Owens	Medical Laboratory	National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)
Owens	Nursing	Accreditation Commission for Education in Nursing
Owens	Occupational Therapist Assistant	Accreditation Council for Occupational Therapy Education (ACOTE)
Owens	Office Administration	Association of Collegiate Business Schools and Programs
Owens	Paralegal	American Bar Association Standing Committee on Paralegals Approval Commission
Owens	Physical Therapist Assistant	Commission on Accreditation in Physical Therapy Education (CAPTE)
Owens	Radiologic Technology	Joint Review Committee on Education in Radiologic Technology (JRCERT)
Owens	Refrigeration, Heating, & Air-Conditioning	Partnership for Heating, Ventilation, Air-Conditioning, Refrigeration Accreditation(PAHRA)
Owens	Respiratory Care	Committee on Accreditation of



Respiratory Care (COARC) Veterinary Technology American Veterinary Medical Owens Association Stanton Associate Degree Nursing Accreditation Commission for Education in Nursing (ACEN) Stanton **Culinary Arts** American Culinary Federation, Foundation Inc.'s Accrediting Commission Stanton Food Service Management American Culinary Federation, Foundation Inc.'s Accrediting Commission Stanton Mechanical Engineering Technology Engineering Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc.(ETAC of ABET) Terry **Business** Association of Collegiate Business Accounting, General Business, Schools and Programs (ACBSP) Hospitality Management, Management, Marketing **Culinary Arts** American Culinary Federation Terry **Education Foundation** Early Childhood Education Delaware Department of Education Terry Early Care and Education (Birth to Second Grade) Early Childhood Education Delaware Department of Education Terry Early Childhood Development Education* Delaware Department of Education Terry Math Secondary Education Education* Delaware Department of Education Terry **Elementary Education Option** Education* Delaware Department of Education Terry Paraeducator Council for Standards in Human **Human Services** Terry Services Education (CSHSE) Associate Degree Nursing Accreditation Commission for Terry Education in Nursing (ACEN) Terry **Paralegal** American Bar Association Standing Committee on Paralegals Approval Commission **Paramedic** Terry Commission on Accreditation of Allied Health Education Programs (CAAHEP) Committee on Accreditation of Educational Programs for the **Emergency Medical Services** Professions (CoAEMSP) **Practical Nursing** Accreditation Commission for Terry Education in Nursing (ACEN) Surgical Technology Commission on Accreditation of Allied Terry Health Education Programs (CAAHEP) Committee on American College of Surgeons (ACS) and Association of Surgical Technologist (AST) Association of Collegiate Business Wilmington **Business** Schools and Programs (ACBSP) Accounting, General Business,

Management, Marketing, Hospitality



(Terry/Owens Extension)

Wilmington

Wilmington

Wilmington

Wilmington

Management Wilmington

Commission on Accreditation of Allied Cardiovascular Sonography

Health Education Programs (CAAHEP)

Wilmington Dental Hygiene American Dental Association,

Commission on Dental Accreditation

Dental Hygiene American Dental Association.

Commission on Dental Accreditation Diagnostic Medical Sonography, Commission on Accreditation of Allied

General Concentration Health Education Programs (CAAHEP)

Human Services Council for Standards in Human

Service Education (CSHSE)

Delaware Department of Education

Early Childhood Education Delaware Department of Education

Wilmington Early Childhood Education: Delaware Department of Education

Early Care and Education (Birth to

Second Grade)

Wilmington Early Childhood Education: Delaware Department of Education

Early Childhood Development

Education* Wilmington Delaware Department of Education

Math Secondary Education Wilmington

Education*

Elementary Education Option Wilmington Education* Delaware Department of Education

Paraeducator

Wilmington Early Childhood Education, National Association for the Education

Child Development Center of Young Children (NAEYC)

Wilmington Histotechnology National Accrediting Agency for Clinical

Laboratory Sciences (NAACLS)

Human Services Wilmington Council for Standards in Human Service Education (CSHSE)

Commission on Accreditation for Health Wilmington Health Information Management

> Informatics and Information Management Education (CAHIIM)

Medical Assistant Wilmington Commission on Accreditation of Allied

Health Education Programs (CAAHEP) Curriculum Review Board of American Association of Medical Assistants'

Endowment (AAMAE)

Wilmington Nuclear Medicine Joint Review Committee on Education

Programs in Nuclear Medicine

Technology (JRCNMT)

Wilmington Occupational Therapy Assistant The Accreditation Council for

Occupational Therapy Education of the

American Occupational Therapy

Association (ACOTE)

Wilmington Physical Therapist Assistant Commission on Accreditation in

Physical Therapy Education (CAPTE) Joint Review Committee on Education in Radiologic Technology (JRCERT)

Wilmington Committee on Accreditation of Respiratory Care

Respiratory Care (COARC)

* Provisional approval is granted to institutions until a larger number of graduates are produced.

Radiologic Technology



Course Descriptions

Course Descriptions

This section includes a list of courses offered at the College. Not all courses are offered each semester, and not all courses are offered on all campuses. The College reserves the right to cancel any course in the semester schedule for which an insufficient number of students reaister.

ACC Accounting

ACE Academic Challenge English

ACM Academic Challenge Mathematics

ACR Air Conditioning & Refrigeration

AET Architectural Engineering

AGS Applied Agricultural

AID Interior Design

AMT Airframe Maintenance Technology

ASL American Sign Language

AUT Automotive

BAK Banking

BIO Biology

BUS Business Administration

CEN Computer Engineering

CET Civil Engineering

CHM Chemistry

CIS Computer Information Systems

CLT Cultural

CMT Construction Management

CNE Computer Network Engineering

COD Medical Coding

COM Communications

CPO Chemical Process Operator

CRJ Criminal Justice

CSA CISCO Academy

CSC Computing and Information Science

CSM Customer Service Management

CTS Commercial Transportation

CUL Culinary Arts

CVS Cardiovascular Sonography

CWE Cooperative Education

DAC Drug & Alcohol Counseling

DHY Dental Hygiene

DMS Diagnostic Medical Sonography

EBZ E-Business

ECE Early Childhood Education

ECH Echocardiography

ECO Economics

EDC Education

EDD Computer-Aided Engineering Drafting & Design

EDT Engineering Drafting

ELC Electronics/Electrical Engineering

ELM Electromechanical Engineering

EMT Emergency Medical Technician (Paramedic)

ENG English

ENT Entrepreneurship

ENV Environmental

ESL English as a Second Language

ESM Emergency Services Management

ETC Ed Tech Certificate Program

ETH Ethnic Studies

EXS Exercise Science

FET Fire Protection Engineering

FIN Finance

FSM Food Service Management

FSY Food Safety

GER Gerontology

GET Engineering (General) HIM Health Information Management

HIS History

HIT Health Information

HI H Allied Health

HMS Human Services

HRI Hotel, Restaurant, & Institutional Management

HRM Human Resource Management

HTT Histotechnician

HVA HVAC Design Engineering

IET Industrial Engineering **IMT Industrial Maintenance**

INT Sign Language Interpreting

ISY Information Security

LAS Laser & Optic Studies

MAT Mathematics

MEA Medical Assistant

MET Mechanical Engineering

MGT Management

MIS Management Information Systems

MKT Marketing

MLT Medical Laboratory

MTS Medical Transcription

NCJ Non-Curriculum Credit Courses Joint-Campus

NCN Non-Curriculum Credit Courses - Stanton

NCS Non-Curriculum Credit Courses - Owens

NCT Non-Curriculum Credit Courses - Terry

NCW Non-Curriculum Credit Courses - Wilmington

NMT Nuclear Medicine

NRG Energy

NUR Nursing

OAT Office Administration

OTA Occupational Therapy Assistant

PFS Perinatal Ultrasound

PHY Physics

POL Political Science

POS Poultry Science

PSY Psychology

PTA Physical Therapist Assistant

RAD Radiologic Technologist

RCT Respiratory Care Technician

RDG Reading

SGT Surgical Technology

SMT Safety Management

SOC Sociology

SPA Spanish

SSC Student Success Courses

SSS Student Services

VAS Vascular

VET Veterinary

VSC Visual Communication

ACC 100 - Introduction to Accounting(3:2:2) Principles and procedures of accounting, emphasizing the role of accounting in making business decisions, understanding the meaning of accounting information, how it is compiled, how it can be used, and its limitations. The focus is on the bookkeeping aspects of accounting. including basic business transactions, payroll, special journals. and the preparation of simple financial statements and worksheets. Prerequisites: Test score or RDG 005 or RDG 051 or NCS 052 or ESL 032 or ESL 100 or RDG 120 and Test score or MAT 005 or NCS 005 or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 135 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185 ACC 101 - Accounting I.....(4:3:2) This course introduces principles and concepts of financial accounting with emphasis on accounting for sole proprietorships. Areas covered include accounting for service and merchandising businesses, cash, receivables, inventory, plant assets and liabilities. Balance sheet and Income statement preparation and analysis are included. Prerequisites: (Test Score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120) and (Test Score or MAT 015 or MAT 016 or NCW 045 or MAT 075 or MAT 090 or MAT 135 or MAT 140 or MAT 141 or MAT 153 or MAT 181 or MAT 182 or MAT 185 or MAT 251 or MAT 261 or MAT 281). ACC 112 - Accounting II.....(4:3:2) Principles and procedures continue with partnership, corporations, bonds, retained earnings, corporate securities, cash flow statement, introduction to managerial accounting with job order costing. CVP and incremental analysis, responsibility accounting, budgets and standard costing. Prerequisite: ACC 101 ACC 161 - Micro Computer Accounting Appl.....(3:2:2) In this course the student will carry out all accounting functions on the computer: recording and managing the general ledger, receivables, payables, and establishing a database. Prerequisites: Test score or ENG 051 or ESL 100 or NCS 051 or ENG 121 or ENG 125 and Test score or RDG 051 or NCS 052 or ESL 100 or RDG 120 and Test score or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185 ACC 162 - Computerized Accounting(3:2:2) This course prepares students with the workplace skills necessary for the utilization of automated accounting software to include data entry by interpreting accounting information, creation of financial statements and other financial reports, creation of payroll and the related payroll reporting requirements and creation and management of customer invoices and vendors' bills. This course will reinforce the concepts learned in Accounting I and apply these concepts to computer software that can be used to make business decisions. Prerequisites: ACC 101 and CIS 107 ACC 189 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson. ACC 211 - Tax Accounting I.....(3:3:1) This course covers a review of the federal income tax structure.

Major topics include determination of gross income, adjustments,

itemized deductions, the standard deduction, personal and

dependency exemptions, tax liability, and tax credits; theory

and return preparation are emphasized. Prerequisites: ACC

101 and (Test Score or MAT 140 or MAT 153 or MAT 181

or MAT 185) and (Test Score or ENG 121 or ENG 125)

9	Advanced topics including tax research, the audit process, the AMT, partnerships, S corporations, regular corporations, estate, gift and trust taxation; emphasis includes tax forms and tax planning. Prerequisites: ACC 112 and ACC 211.
	ACC 213 - Managerial Accounting
2)	ACC 214 - Governmental Accounting
	ACC 221 - Cost Accounting I(3:3:1)
2)	A study of the cost concepts, the cost accounting information system, and the role of the cost accountant. Topics covered include the elements of cost, job order costing, process costing, by-products, joint products, inventory control in a just-in-time environment and quality control procedures. Prerequisite: ENG 121 and CIS 107 Prerequisites: ENG 121 and CIS 107 and ACC 112.
?)	ACC 222 - Cost Accounting II
(2)	ACC 230 - Accounting Information Systems(3:3:1) Accounting information and its place within an organization's overall management information system. Emphasis on information and document flow, internal control, data organization, and the analysis, design, development, and audit of computer-based accounting systems. Includes some computer work. Prerequisites: ACC 112 and CIS 107 and MGT 212
,	ACC 231 - Intermediate Accounting I
))	ACC 232 - Intermediate Accounting II
)	pensions, income measurement, and analysis of financial statements with full disclosures. Prerequisites: ACC 231.
,	ACC 240 - Advanced Accounting

international accounting environment, partnership accounting,

and governmental and not-for-profit accounting. Prerequisites:

ACC 231 and ACC 221 and ACC 211 and ECO 122.

ACC 212 - Tax Accounting II(3:3:1)

ACC 251 - Auditing(3:3:1) A study of external audit process, including ethical and legal environment, audit planning, control risk assessment,	Students may complete technical electives for which they have written prior approval of the department chairperson.
substantive testing, and audit report. Prerequisites: ACC	ACE 196 - Advanced Credit/Poetry(3:3:0)
231 and CIS 112 and MAT 250 or MAT 255.	Advanced credit for approved Academic Challenge college level English instruction in poetry. Prerequisites: None
ACC 289 - Approved Technical Elective(3:0:0)	iever English instruction in poetry. Frerequisites, None
Students may complete technical electives for which they	ACE 197 - Advanced Credit/Novel(3:3:0)
have written prior approval of the department chair.	Advanced credit for approved Academic Challenge college level English instruction in novels. Prerequisites: None
ACC 291 - Intermediate Accounting Honors(3:3:1)	ievei Englisti ilisti uction ili noveis. Frerequisites. None
Principles and procedures emphasizing the preparation and	ACE 198 - Advanced Credit/Drama(3:3:0)
interpretation of the statements of income, retained earnings, cash flow,	Advanced credit for approved Academic Challenge college
and balance sheet. The time value of money, receivables, inventories, and fixed assets are covered in depth. In addition to the course outline of ACC	level English instruction in drama. Prerequisites: None
231, Intermediate Accounting Honors includes an appropriate approved project. Prerequisite: ACC 112 and Prerequisites: ACC 112 and ENG 121.	ACE 199 - Advanced Credit/Short Story(3:3:0)
project. Prerequisite. ACC 112 and Prerequisites. ACC 112 and ENG 121.	Advanced credit for approved Academic Challenge college
ACE 025 - Language, Grammar & Writing (2.25:2.25:0)	level English instruction in short story. Prerequisites: None
In this course, students learn the core fundamentals of language,	ACE 289 - Approved Technical Elective(3:0:0)
grammar, and writing. This course concentrates on improving these skills	Students may complete technical electives for which they have
through the use of literary texts and relevant fiction. Prerequisites: None	written prior approval of the department chairperson.
ACE 026 - Writing Research& Presentation (2.25:2.25:0)	ACM 011 - Algebra I(3:3:0)
In this course, students learn the core fundamentals of Writing,	Terminology, properties, polynomial operations, factoring,
Research, and Presentation with emphasis on: public speaking, writing informative and explanatory essays, writing for an audience, using	fractional simplification, exponents, roots; coordinate
technology, and conducting a short research project. This course	graphing and solving of linear equations, linear inequalities, and quadratic equation. Permission to take this course based
focuses on the use of information-based texts. Prerequisite: ACE 025	on admission to the Academic Challenge Program.
ACE 033 - World Literature(2.25:2.25:0)	ACM 012 - Algebra II(3:3:0)
In this course, students continue the progression of skills through	Functional notation, basic principles of coordinate geometry; systems
World Literature, with emphasis on evaluating speakers' points	of equations and inequalities; complex numbers, sequences and
of view, writing arguments to support claims, gather and use info from many sources, cite evidence to support analysis, analyze	series. Solving and graphing of quadratic, polynomial, exponential,
authors' uses of text and evaluate claims in a text. This course	and logarithmic equations and functions. Prerequisites: ACM 011
uses both literary and informational texts. Prerequisite: ACE 026	ACM 021 - Geometry(3:3:0)
ACE 034 - British Literature (2.25:2.25:0)	Postulates and Definitions. Development of deductive reasoning through
In this course, students study the progression of skills through	direct and indirect proofs. Geometric inequalities, perpendicularity,
British and American Literature (years 500-1800) with emphasis on	parallelism, congruence, similarity, circles, constructions, polygons, and solids. Prerequisites: (ACM 011 (grade of CE) and ACM 012 (grade
integrating multiple sources of information presented in diverse media	of BE)) or (ACM 011 (grade of BE) and ACM 012 (grade of CE)).
or formats (e.g., visually, quantitatively, orally); writing informative/ explanatory texts; and gathering relevant information from multiple	
authoritative print and digital sources; analyzing how complex	ACM 022 - Trigonometry/Analytic Geometry(3:3:0)
characters develop over the course of a text; analyzing multiple	Computational and analytical trigonometry. Include angle conversion, evaluation of trig, functions, graphs, solving trig, equations, proving
interpretations of a story, drama, or poem; and analyzing documents of historical and literary significance. Prerequisite: ACE 033	identities; right triangle and oblique triangle formulas and applied
of filstoffoat and interary significance. Frerequisite. Add 000	problems. Analytic Geometry includes conic and rotated conics with
ACE 035 - American Literature (2.25:2.25:0)	applications. Prerequisites: (ACM 012 (grade of CE) and ACM 021 (grade of BE)) or (ACM 012 (grade of BE) and ACM 021 (grade of CE)).
In this course, students continue their study of British and	(grade of DE)) of (Acid of Z (grade of DE) and Acid OZT (grade of CE)).
American Literature (years 1800-2000) with emphasis on developing and strengthening writing as needed by planning,	ACM 023 - Trigonometry & Pre-Calculus B(3:3:0)
revising, editing, rewriting. Prerequisite: ACE 034	This course is designed to integrate intermediate
	algebra, analytic geometry, and trigonometry with other
ACE 040 - Writing & Research(2.25:2.25:0)	college algebra topics through a functional approach as a preparation for calculus. Prerequisites: ACM 032
In this course, students continue to develop and use all of the	
skills from the previous courses and apply them to produce a research paper. The goal of the course is to prepare students	ACM 031 - Probability and Statistics(3:3:0)
to write at a level and depth appropriate for introductory,	Data presentation with central tendency and variability analyses.
collegiate composition courses. Prerequisite: ACE 035	Probability and counting rules, sampling, estimation hypothesis testing; Chi-square and analysis of variance; simple regression and
ACE 189 - Approved Technical Elective(3:0:0)	<u> </u>

correlation. Prerequisites: (ACM 021 (grade of CE) and ACM 022 (grade of BE)) or (ACM 021 (grade of BE) and ACM 022 (grade of CE)).

ACM 032 - Pre-Calculus(3:3:0)

Central concepts of algebra are reviewed and unified around the notion of a function and its graph (polynomial, rational, exponential, and logarithmic). Also includes limit and limit techniques, partial fractions, vectors, proof by induction, polar coordinates and parametric equations. Prerequisites: (ACM 022 (grade of CE) and ACM 031 (grade of BE)) or ACM 022 (grade of BE) and ACM 031 (grade of CE)).

ACM 189 - Approved Technical Elective(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

ACM 289 - Approved Technical Elective(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

ACR 101 - HVAC Electricity(5:4:4)

This course is designed to familiarize the student with electric fundamentals as applied to heating, ventilating, and air conditioning. Basic circuits, Ohm's Law, meters, motor theory, and circuit control are covered. Emphasis will be placed on wiring components and reading schematics. Hands-on training wil be provided with emphasis placed on mastery of skills and competency of assigned tasks. Prerequisites: (Test Scores or ENG 005 or ENG 006 or ENG 051 ENG 099 or NCS 051 or NCW 090 or ESL 034 or ESL 100 or ENG 121 or ENG 125) and (Test Scores or RDG 005 or ENG 006 or RDG 051 or ENG 099 or NCS 052 or NCW 091 or ESL 032 or ESL 100 or RDG 120) and (Test Scores or MAT 005 or NCS 005 or MAT 012 or NCS 012 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 181).

ACR 102 - Fundamentals of Refrigeration(5:4:4)

This course is an introduction to the refrigerant cycle with emphasis on laws of physics for refrigerant gases, characteristics of heat transfer, design, operation, and service. Emphasis will be placed on calculating system pressures and operating temperatures. Handson training will be provided with emphasis placed on mastery of skills and competency of assigned tasks. Prerequisites: (Test score or RDG 005 or ESL 032 or RDG 051 or NCS 052 or ESL 100 or RDG 120) and (Test score or ENG 005 or ESL 034 or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test score or MAT 005 or NCS 005 or MAT 012 or NCS 012 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 141 or MAT 150 or MAT 181)

ACR 104 - Residential Climate Control.....(5:4:4)

This course will introduce the student to residential air conditioning and heat pump systems. Design characteristics, components, operation and service will be covered. Emphasis will be placed on proper installation and troubleshooting procedures. Hands-on training will be provided with emphasis placed on mastery of skills and competency of assigned tasks. Prerequisites: (ACR 101 and ACR 102) and (Test score or RDG 051 or NCS 052 or ESL 100 or RDG 120) and (Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125)

ACR 105 - Residential Heating I.....(5:4:4)

This course covers the basic understanding of different types of oil, gas, and electric warm air furnaces used in residential homes. Standard efficiency to high efficiency systems are covered, with emphasis on sequence of operation, repair, and adjusting to manufacturers' specifications. Hands-on training will be provided

with emphasis placed on mastery of skills and competency of assigned tasks. Prerequisites: ACR 101 and (Test score or RDG 051 or NCS 052 or ESL 100 or RDG 120) and (Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125)

ACR 114 - EPA Seminar and Exam.....(1:1:0)

This course is designed to prepare students to take EPA Section 608 technician Certification for Stationary equipment. The Technician Certification Exam will be included as part of this course. Prerequisite: ACR 102

ACR 115 - Air Distribution & Balancing.....(3:3:1)

This course will provide the knowledge to estimate, design, and select equipment for residential heating and air conditioning systems. Student will perform heat loss/gain load calculations and design duct systems to conform with industry standards. Air balancing instruments will be introduced. Prerequisites: Test score or RDG 051 or NCS 052 or ESL 100 or RDG 120 and Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185

ACR 120 - Employee Development Seminar.....(2:2:1)

This course explores career opportunities in the heating, ventilation, and air conditioning field. Customer relations, safety, and environmental concerns are discussed. Refrigerant transition and recovery certification training is provided. Prerequisites: (Test scores or ENG 005 or ENG 006 or ENG 051 or ENG 099 or NCS 051 or NCW 090 or ESL 034 or ESL 100 or ENG 121 or ENG 125) and (Test scores or RDG 005 or ENG 006 or RDG 051 or ENG 099 or NCS 052 or NCW 091 or ESL 032 or ESL 100 or RDG 120).

ACR 121 - HVAC Energy Systems.....(3:3:1)

This is an introductory course on heating, ventilation and air conditioning systems. This course covers the fundamental theoretical principals and practical descriptions of the various HVAC equipment and systems used in residential/ commerical buildings. The student will learn basic thermodynamics, heat transfer and fluid flow dynamics. In this course we will cover heating and cooling load calculations, develop an understanding of psychometrics and investigate fan laws and air/water properties. This course will introduce the student to various types of HVAC equipment, analyze efficiencies of equipment and systems and learn how to estimate annual energy use of buildings. Prerequisites: PHY 111 and NRG 101 and NRG 103 and (MAT 140 or MAT 181 or MAT 182 or MAT 185 or MAT 281).

ACR 150 - Industry Competency Exam I.....(1:1:0)

This course is designed to prepare students to take the Industry Competency Exam (ICE) for Residential Oil and Gas Heating. The ICE measures Industry-agreed standards of basic competency developed, supported and validated by major industry associations. The Industry Competency Exam will be included as part of the course. Prerequisite: ACR 105

ACR 151 - Industry Competency Exam II(1:1:0)

This course prepares student to take the Industry Competency Exam (ICE) for Air Conditioning and Heat Pump. The ICE measures standards of basic competency developed, supported, and validated by major industry associations. The Industry Competency Exam is included as part of the course. Prerequisite: ACR 104 or concurrent

This course is designed to introduce the student to refrigeration systems used in light commercial applications. It will include low temperature systems, water cooled equipment, piping and servicing restaurant equipment. Prerequisites: ACR 101 and ACR 102 and ACR 120 and (Test score or RDG 120) and (Test score or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185).

ACR 204 - Residential Heating II.....(3:2:2)

This course covers heat loss estimating, designing, and installation of hydronic heating systems. Hot water baseboard heating systems will be discussed with emphasis on methods of construction, balancing, and boiler designs. Prerequisites: Test score or RDG 120 and Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185

ACR 222 - Commercial HVAC Energy Analysi.....(2:2:1)

This is an in-depth course on heating, ventilation and air conditioning systems. The student will identify and analyze the energy consumption of the various HVAC equipment and systems used in commercial buildings. The student will learn how to program and deploy data loggers to gather energy information such as temperature, humidity and current draw on various systems and components. This course will use the fundamentals of psychometrics, fan laws and air/water properties to analyze energy usage and select stratagies for improvement. The student will analyze alternatives to predict energy and cost savings for these strategies. Prerequisites: ACR 121 and (MAT 140 or MAT 181 or MAT 182 or MAT 185 or MAT 281).

ACR 250 - Industry Competency Exam III(1:1:0)

This course is designed to prepare students to take the Industry Competency Exam (ICE) for Commercial Refrigeration. The ICE measures Industry-agreed standards of basic competency developed, supported and validated by major industry associations. The Industry Competency Exam will be included as part of the course. Prerequisite: ACR 202

ACR 289 - Approved Technical Elective(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

AET 111 - Constr Blueprint Reading.....(4:4:0)

This course will demonstrate fundamentals of reading and interpreting of residential and light commercial building construction drawings. Subject areas covered will include projections, drawing views, reading elevation drawings, floor plans, scale and dimensioning practices. Reading drawings for structural information, reading detail drawings and plot plans, and reading blueprints for trade information will also be covered. Pre-requisites: (Test score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test score or MAT 012 or MAT 015 or MAT 119 or MAT 120 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181) and (Test score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120)

AET 116 - Intro to Passive Solar Design(3:3:0)

Examination of basic passive solar design elements, principles,

products and construction methods as they relate to light construction applications. Students will be introduced to terminology, trends and ideas in this area of architecture. Prerequisites: Test score or RDG 120.

AET 121 - Intro to Arch Drafting.....(4:2:5)

Introduces beginning drafting students to the basics of architectural technical drawing. Emphasis is on the use of lettering, line quality, orthographic projection, types of architectural drawings, and dimension layout. Prerequisites: Test score or RDG 051 or NCS 052 or ESL 100 or RDG 120 and Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 150 or MAT 153 or MAT 181 or MAT 185 and Test Scores or MAT 015 or MAT 016 or NCW 045 or MAT 075 or MAT 090 or MAT 135 or MAT 140 or MAT 141 or MAT 153 or MAT 181 or MAT 182 or MAT 185 or MAT 251 or MAT 261 or MAT 281

AET 123 - Arch Drafting/Design I(4:3:3)

This course provides training and experience in modern drafting room procedure, practice and principles. Course covers the basic skills and techniques of drafting including freehand orthographic and pictorial sketching, geometric construction, multi-view projections, sectional views, auxiliary views, line types, lettering, dimensioning, notation, and use of drafting equipment and Computer Aided Design (CAD). Prerequisites: (Test score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120) and (Test score or MAT 012 or NCS 012 or MAT 015 or MAT 090 or MAT 119 or MAT 120 or or MAT 130 or MAT 141 or MAT 150 or MAT 153 or MAT 181).

AET 125 - Arch Drafting/Design II(4:3:3)

This course presents basic architectural design, drafting, and documentation techniques. This is accomplished through the drawing of plot, floor, and elevation plans that contains sections, details, and schedules as used in residential construction documents. Quality line work, dimensioning, and drawing accuracy will be emphasized for traditional techniques, as well as, Computer Aided Design (CAD). Prerequisites: AET 123 and EDD 171 and (AET 135 or AET 135 concurrently).

AET 135 - Construction Materials/Methods.....(3:2:2)

This course will study construction materials and methods of use as they relate to the overall building industry. The major emphasis will be on the subject areas of soils, concrete, brick, masonry, steel, non-ferrous metals, lumber, timber, and plastics. Materials and methods are discussed in the context of their application in design, construction, building codes, zoning ordinances, and building loads. Prerequisites: (Test score or RDG 051 or NCS 052 or ENG 099 or RSL 100 or RDG 120) and (Test Score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test score or MAT 012 or NCS 012 or MAT 015 or MAT 090 or MAT 119 or MAT 120 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181).

AET 150 - Engineering Constr Drafting(3:2:4)

Preparation of drawings and support materials for architectural projects using standard industry practices, including plans, elevations, sections and other project representation tools. Student will develop an understanding of the construction process, engineeering materials and building systems. Prerequisites: (Test score or RDG 120) and (AET 121 or AET 123 or AET 125) and AET 135 and EDD 171.

AET 170 - Graphics for Arch Dsqn (4:3:3)

An introduction to the drawing techniques for architectural design process, including both conceptual visualization and finished drawings.

Introduction to the problems involved in the practice of architecture and construction. A study of interrelationships of the architect, engineer, owner, builder, artisan, and regulatory agencies in the project delivery process and legal contracts. An analysis of the organization and administration of an architectural practice, education, and licensing and career opportunities. Prerequisites: Test score or RDG 120 and Test score or ENG 051 and AET 125

AET 232 - Contracts/Specifications (3:3:0) Students are given a background in interpreting and preparing of specifications and other contract documents using the standards of CSI Manual of Practice. Course includes the legal implications of document preparation and project delivery process. Prerequisites: Test scores or RDG 120 and Test scores or ENG 121 and AET 135

AET 234 - Cost Estimating/Planning......(3:3:0) This course covers material lists and take-off quantities of materials and labor costs from plans, working drawings, and specifications. Diffrent methods of estimating are presented, including an introduction to project costing and scheduling using productivity software. Prerequisites: (((Test Score or RDG 120) and (Test Score or ENG 121)) or Test Score or ENG 101 or ENG 102 or ENG 122)) and MAT 181 and ((AET 125 and AET 135) or (CET 125 and CET 135))

AET 235 - Adv Cost Estimating/Planning.......(3:3:0)
A continuation of AET 234 - Cost Estimating and Planning.
Advanced topics will include heavy and commercial estimating and fundamentals of value engineering. Students will prepare construction estimates for a field project. Prerequisites:
Test score or RDG 120 and AET 234 and MAT 181

AET 236 - Building Service Systems......(3:2:2)
This course provides an introduction to the theory and

practice involving the design and construction of mechanical systems to include heating and air conditioning, plumbing and electrical systems. Prerequisites: (Test score or ESL 100 or RDG 120) and MAT 181 and AET 125 and AET 135.

AET 241 - Adv Arch Construction Doc(4:3:3)

Trains student in architectural construction document development through the completion of typical drawing types for non-residential construction with the emphasis on the design development process. Utilizes prior technical courses to apply comprehensive skills to code research, drawing set organization, detail development and selections, wall section design and plan and elevation layout. Emphasis will be devoted to using CAD application software for the preparation of finished construction documents. Imported .DXF symbols and drawings, and other advanced CAD features are also studied. Prerequisites: AET 125 and AET 135 and AET 150 and EDD 271.

AET 250 - Arch Drafting/Design III.....(4:3:3)

This is a Computer Aided Design (CAD) based course with a focus on commercial building design, documentation, building placement,

and site analysis and development, including use of surveying equipment, field notes and calculations. Projects will demonstrate an understanding of building codes, structural systems and building components in construction documents. Prerequisites: (Test score or ESL 100 or RDG 120) and MAT 181 and AET 125 and AET 264.

AET 264 - Architectural CAD Applications.....(3:2:2)

Application of third-party architectural CAD software to create finished architectural construction documents based on residential construction. Using an integrated 2-D and 3-D CAD software package, representative construction drawings and completed, using both 2-D orthographic plans, elevations and sections and 3-D representations using modeling, quick perspective and other 3D features. Integral symbol libraries imported. DXF symbols, and integrated database functions are also studied. Prerequisites: (AET 125 or CET 125 or EDD 141) and EDD 271.

AET 270 - Arch Drafting/Design IV.....(4:3:3)

This is a capstone course using multiple Computer Aided Design (CAD) software platforms in which students develop architectural projects utilizing a collaborative team approach. Emphasis is on research, building codes, building systems, sustainability and innovative industry practices. Prerequisites: AET 236 and AET 250 and AET 275.

AET 275 - Arch Dsgn:Foundation Studies I.....(4:3:3)

This course is an introduction to the design process using abstract and applied projects in three-dimensional form to investigate the relationship between scale, context, and building elements. It includes the impact of function, materials and structure on the design process in creating architecture. Prerequisites: AET 125 and AET 264.

AET 276 - Arch Dgn:Foundation Studies II(4:2:5)

Continuation of AET 275 Architectural Design: Foundation Studies I. Architectural problems will investigate the relationship between scale, context, and building elements and the impact of function, materials, and structure on the design process in creating architecture. Prerequisites: AET 275

AET 281 - Project Elective.....(3:2:2)

Investigation of a research topic or an advanced design project with guidance and approval of the instructor. The student is required to submit a proposal, make periodic reports, submit formal documents and make a final presentation for evaluation. Prerequisites: None

AET 285 - Adv Design Elective(3:2:2)

The student is required to complete an advanced design project with guidance and approval of the instructor. The student is required to submit a proposal, make periodic reports, submit formal working drawings in accordance with the proposal and make a final presentation for evaluation. Prerequisites: None

AET 289 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

AET 291 - Internship I.....(4:0:12)

A supervised program designed to provide students with a variety of practical on-the-job experience. Prerequisites: None

AET 292 - Internship II(4:0:12)

A supervised program designed to provide students with a variety of practical on-the-job experience. Prerequisites: None

AGS 101 - Soil Science.....(3:2:2)

This course is a study of elements of soil science and

management as they relate to production Agriculture, Horticulture and Turf sciences. Prerequisites: Test scores or RDG 051 or NCS 052 or ESL 100 or RDG 120

AGS 102 - Agricultural Science.....(3:3:0)

This course is broad based introduction to principles of scientific agriculture. The course of study will overview the relationship of agriculture to human survival, interactions of society and the environment, soil, plant, animal, history and technology's role in agriculture. Prerequisites: Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or RDG 051 or ESL 100 or RDG 120

AGS 103 - Greenhouse Mgt(3:2:2)

The basic concepts of plant growth, development, photosythesis, floral production, greenhouse structures, and equipment to monitor the environment are discussed. Preparation of soil and amended media incorporating the use of fertilizers and plant growth regulators will also be discussed. Prerequisites: Test scores or RDG 051 or ESL 100 or RDG 120.

AGS 104 - Intro to Agribusiness Managemt(3:3:0)

This course is a study of the role and organization of agribusiness and is designed to provide students with information relating to understanding the function and operation of an agribusiness and outline the skills necessary to become a valued employee or entrepreneur. Prerequisites: Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test scores or RDG 051 or NCS 052 or ESL 100 or RDG 120 and Test scores or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185

AGS 105 - Prin of Plant Growth(3:2:2)

Introduction to plant structure and function with practical application to agricultural plants. Prerequisite: Test score or RDG 005 and test score or ENG 005 and AGS 101.

AGS 106 - Vegetable Crop Production(3:3:0)

This course examines general production principles associated with commercial vegetable production. Topics of discussion will include fertilization and harvesting practices. Home vegetable gardening and greenhouse crop production. Pesticide use and handling along with storage. Students will be introduced to Delaware's safe handling practices for vegetable production and sales. Prerequisites: (Test score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120) and AGS 101 and AGS 105.

AGS 122 - Concept of Turf Mgt.....(3:2:2)

This course is an introduction to identification, cultivation, and maintenance of turf grasses. Prerequisites: Test score or RDG 051 or ESL 100 or RDG 120.

AGS 123 - Trfgrss Maintenance Practices(3:2:2)

This course is an introduction to identification, cultivation and maintenance of turfgrasses. Students will be introduced to practices used in the maintenance of golf courses, school facilities, parks, and athletic fields. Prerequisites: Test score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120

AGS 131 - Intro to Irrigation.....(3:2:2)

This course will introduce the student to basic irrigation and drainage principles, uses of irrigation, and irrigation system design for landscape use. Prerequisites: Test score or RDG 051 or NCS

052 or ESL 100 or RDG 120 and Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185

AGS 132 - Landscape Const & Management.....(3:2:2)

This course is based on PLANET's skill standards for a Certified Landscape Technician. Students are instructed in interpreting landscape designs, identifying landscape plants, and planting/maintaining trees and shrubs. Landscape construction is emphasized in the areas of grading and drainage, paver installation and the use/maintenance of landscape equipment. Current topic discussions provide students an understanding of careers and the employability skills needed to enter the landscape industry. To become a Certified Landscape Technician, an applicant must pass the Common Core plus an Installation, Irrigation and/or Maintenance Core Test. Prerequisites: Test scores or RDG 051 or ESL 100 or NCS 052 or RDG 120 and Test scores ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test scores or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185 and AGS 101

AGS 135 - Turf & Landscape Irrigation.....(3:2:2)

This course will introduce students to basic irrigation and drainage principles, uses of irrigation and irrigation system design for landscape use. Prerequisites: AGS 101 and AGS 132

AGS 136 - Turf Equipment Operations(3:2:2)

This course covers the operation and maintenance of turf equipment; mower units, top dressers, core aerators, slit seeders, and miscellaneous turf equipment. Safety and proper handling of each is essential. An understanding of equipment costs and shop area organization will be practiced. Prerequisites: Test score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120

AGS 151 - Intensive Closed Syst Aguacitr.....(3:2:2)

All currently accepted technologies and procedures for recirculating aquaculture systems including species and loading, particle filtration, biofiltration, waste disposal, aeration, heating tanks, disinfection, site selection, design water quality, disease, and economics will be covered in detail. Hands-on experience will be gained with the college's on-site system. Prerequisites: Test score or RDG 051 or ESL 100 or NCS 052 or RDG 120 and Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185

AGS 152 - Egg/Larvae Prodctn Techniques(3:2:2)

Currently accepted technologies and procedures for the production of eggs, larvae, and fingerlings of species which are viable candidates for aquaculture in Delaware will be examined in detail. Hands-on experience will be gained through spawning and rearing activities in the college's on-site culture system. Species to be covered include striped bass, largemouth bass, minnows, tilapia, bluegill, and crayfish. Prerequisites: Test score or RDG 051 or ESL 100 or NCS 052 or RDG 120 and Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185

AGS 189 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

AGS 201 - Intro to Forestry
AGS 202 - Agronomic Crops
AGS 203 - Plant Identification
AGS 204 - Animal Science
AGS 205 - Farm Machinery/Mgt
AGS 207 - Floriculture
AGS 209 - Farm Records & Accounts
AGS 210 - Fundamentals of Aquaculture

MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT

090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MA 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185

AGS 212 - Intro to Agribusiness Marketng.....(3:3:0)

This course is an introduction to Agriculture Marketing and all of the economic activities that are required to put the farm product in the hands of the consumer. Some of the topics we will cover in this class are processing, transporting, financing, storage, and marketing of a product. Students will study of the structure and function of the food marketing system, demand, supply and market price determination; marketing margins; product quality and grading. Prerequisites: Test score or ENG 051 or NCS 051 or ESL 100 or (ENG 121 or ENG 125) and Test score or RDG 051 or NCS 052 or ESL 100 or RDG 120 and Test score or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185 and BUS 101

AGS 213 - Landscape Plans(3:2:2)

Introduction to problems in landscape planning including use of plant materials and elements of design, using computerized programs of design. Prerequisites: Test score or RDG 005 and Test score or ENG 005 and Test score or MAT 005 and AGS 101 and CIS 107

AGS 214 - Animal Health/Diseases(3:2:2)

Introduction to basic methods of disease control, including resistance, immunity, therapy, hygiene, and sanitation as well as diagnosis of diseases of farm animals. Prerequisites: Test score or RDG 005 and Test score or ENG 005 and Test score or MAT 005 and AGS 204

AGS 215 - Agriculture Leadership.....(3:3:0)

This course introduces students to the concept of leadership. Emphasis is placed on the application of acquired knowledge to practical problems. Prerequisites: Test scores or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test scores or RDG 051 or ESL 100 or RDG 120 and AGS 104

AGS 221 - Turfgrass Equipment Management(3:2:2)

This course covers the operation and maintenance of specialized turfgrass management equipment. Topics include small engine use and repair; operation, maintenance and repair of turfgrass management equipment; organization of shop areas, and safety considerations. Upon completion the student should be able to operate and maintain turfgrass equipment. Prerequisites: AGS 122 and AGS 132.

AGS 222 - Putting Green Management.....(3:2:2)

This course deals exclusively with golf putting greens. Types of greens are identified. Design, construction, and maintenance of typical greens are presented. Students will develop a maintenance program for bent grass greens and apply many of these cultural practices to actual turfgrass areas in laboratory exercises. Prerequisites: AGS 101 and AGS 105 and AGS 122 and AGS 221.

AGS 224 - Turf & Athletic Fld Maintenanc(3:2:2)

This course introduces specific sports field design, installation, and maintenance. Topics include baseball, softball, soccer, and football fields. Upon completion, students should be able to perform specific tasks in layout, field marking, and preparing for tournament play. Prerequisites: Test score or ENG 051 and Test score or RDG 051 and Test score or MAT 012 and MAT 125 and AGS 101 and AGS 122 and AGS 221

AGS 225 - Agriculture Seminar.....(3:3:0)

This seminar is designed as a capstone course for Agribusiness Management students to aid them in the processes of obtaining employment within their career field. The students will have independent reading and research; preparation of abstracts, outlines; information on agriculture related topics; and a resume and plan for professional development within agribusiness. Prerequisites: Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or RDG 051 or NCS 052 or ESL 100 or RDG 120 and Test score or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185

AGS 226 - Agribusiness Cooperative.....(3:3:0)

The Applied Agriculture Agribusiness cooperative provides an opportunity for students to apply classroom and laboratory knowledge to actual work experiences. Students receive supervised work experience which enhances knowledge and provides experience within the Agriculture industry. Prerequisites: AGS 102 and AGS 104 and AGS 209

AGS 230 - Production Agriculture Co-op(3:3:0)

This course provides an opportunity to apply classroom and laboratory knowledge to actual work experiences. Supervises work experiences enhance knowledge and provide experience within the production agriculture industry. Prerequisites: AGS 101 and AGS 102 and AGS 104 and AGS 105

AGS 231 - Turfgrss Mgt. Co-op Education.....(3:1:6)

This course provides an opportunity for students to apply and combine classroom and laboratory knowledge to actual work experiences that focuses on a supervised work experience for students to gain knowledge and experience with the turf industry. Prerequisites: AGS 101 and AGS 104 and AGS 105 and AGS 123 and AGS 136

AGS 232 - Horticulture Cooperative(3:1:6)

This course provides an opportunity for students to apply and combine classroom and laboratory knowledge to actual work experiences. Its focus is a supervised work experience for students to gain knowledge and experience with the horticulture industry. Prerequisites: AGS 101 and AGS 104 and AGS 105

AGS 240 - Hydroponics Production.....(3:2:2)

This course will introduce students to principles and techniques of Hydroponic systems; preparation of a greenhouse for planting; transplant production; planting, cultural procedures and maintenance; product harvest. The students will produce vegetable and other crops using (NFT) Nutrient Film Techniques and BADO Bucket systems in a controlled environment. Prequisites: Test scores or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test scores or RDG 051 or ESL 100 or RDG 120 and AGS 105

AGS 241 - Trfgrss Wds Insts/Disease Ctrl(3:3:0)

This course covers detection and prevention of turf grass pests with the emphasis on methods of control or eradication. Topics will include weed, insects, and disease. The course also covers the use of pesticides, application procedures and total costs involved in the control programs. Upon completion, the student will be able to identify turf grass pests, select proper pesticides, and develop pest control programs. Prerequisites: AGS 123 and SCI 240

AGS 242 - Golf Course Operation & Maint.....(3:2:2)

This course covers a comprehensive study of the day to day and seasonal maintenance, and overall management programs of golf courses. Topics covered include calculations used in maintaining golf courses and buildings and grounds. Students will gain knowledge of golf course design and construction, materials handling equipment and storage of chemicals and fertilizers.

The planning of daily work schedules and budget planning is also discussed. Prerequisites: AGS 123 and AGS 136

AGS 243 - Golf & Turf Irrigation(3:2:2)

This course will introduce students to basic irrigation and drainage principles, uses of irrigation and irrigation system design for landscape use. Prerequisites: AGS 101 and AGS 132

AGS 244 - Landscape Plans & Construction(3:2:2)

This course provides an introduction to problems in landscape planning including use of plant materials and elements of design, using computerized programs of design. Students are instructed in interpreting landscape designs, identifying landscape plants, and planting/maintaining trees and shrubs. Landscape construction is emphasized in the areas of grading and drainage, paver installation and the use/maintenance of landscape equipment. Current topic discussions provide students an understanding of careers and the employability skills needed to enter the landscape industry. Prerequisites: CIS 107 and AGS 101 and AGS 105

AGS 245 - Turf Management(3:2:2)

This course will teach students about the lawn care industry with an emphasis placed on the maintenance of a variety of turf sites, including chemical selections, pest control, and safe equipment usage. This course will include hands-on identification, cultivation and maintenance practices used on turfgrasses. Prerequisites: AGS 101 and AGS 105

AGS 250 - Greenhouse Crop Production(3:2:2)

The basic concepts of plant growth, development, photosynthesis, floral production, greenhouse structures, and equipment to monitor the environment are discussed and practiced in a lab setting. Propagation and cultivation techniques of commercial flower/foliage crops are studied and applied. Preparation of soil and amended media incorporating the use of fertilizers and plant growth regulators will be discussed and managed. Nutrient management of plants and environmental impacts of run-off are applied and discussed. Pesticide application and safety are practiced and studied. Proper pest identification techniques are practiced. Prerequisites: AGS 101 and AGS 105

AGS 289 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

AID 145 - Intr Styles Materials/Accents(4:3:3)

This course gives interior design students an in-depth look at interior styles. Students learn about the furniture fabrics, wall coverings, flooring, ceilings, moldings, and accents that depict a particular style. Students prepare several projects for class presentation. Prerequisites: Test score or RDG 051 or NCS 052 or ESL 100 or RDG 120 and VSC 115 and AET 125

AID 151 - Interior Detailing.....(4:3:3)

This course explores the development of interior details such as molding, cabinetry, custom furniture, and carpet designs. Detailing will give the student the opportunity to design millwork and to prepare working drawings for custom walls and flooring. Prerequisites: AET 125.

AID 170 - Presentation Drawing/Rendering(4:3:3)

Areas covered will be perspective and isometric drawings, ink and color presentations using the following forms of media: marker, color pencils, and shadowing techniques. The student will complete several assignments from planning to full-scale plans, renderings, presentation boards, and models. The student will present his/her projects to the class

for critique; projects will include finishes, fabrics, draperies, furniture, and accessories. Prerequisites: VSC 115 and VSC 125 and AET 125.	servicing, welding, aircraft non-metallic structures, aircraft sheetmetal structures, and wood structures, coverings and finishes. Prerequisites: AMT 110 and MAT 125
AID 189 - Approved Technical Elective(3:0:0)	
Students may complete technical electives for which they have written prior approval of the department chairperson.	AMT 210 - Airframe Maintenance - AF II(12:8:12) the Airframe Maintenance section II of the Airframe Maintenance program will introduce students to the fundamentals of aircraft
AlD 224 - Cost Estimatg for Interior Des	maintenance. The units of study are: assembly and rigging, position and warning systems, aircraft electrical systems, hydraulic and pneumatic power systems, and aircraft landing gear systems. Prerequisites: AMT 120 and ELC 122
will be presented including an introduction to project costing and scheduling using productivity software. Prerequisite: AID 145	AMT 220 - Airframe Maintenance - AF III
AID 241 - Residential Design Studio	program will introduce students to the fundamentals of aircraft maintenance. The units of study are: aircraft fuel systems, communication and navigation syistems, instrument systems, cabin atmosphere control systems, ice and rain control systems, fire protection systems, and airframe inspection. Prerequisites: AMT 210
previous semesters. Prerequisites: AET 125 and AID 145	AMT 230 - Powerplant Maint - Section I (14:9:14)
AID 242 - Commercial Design Studio(5:3:5)	This course introduces students to the fundamentals of
An in-depth study of interior commercial space planning and	powerplant maintenance. The units of study are reciprocating
design. Students will be presented with a contract design	engine theory, reciprocating engine overhaul, reciprocating
problem which they will be required to take through design phases including programming, schematic, design development,	engine systems, reciprocating engine ignition and starting systems, reciprocating engine induction systems I, reciprocating
and contract documents. Prerequisites: AID 170.	engine induction systems II, reciprocating engine inspection, and troubleshooting. Prerequisites: (AMT 110 and MAT 125
AID 244 - Hist of Architectural Int Desg(3:3:0)	and ELC 122) or possesses a FAA Airframe License
This course exams the history of architectural interior design styles and furniture evolution from antiquity to present. Prerequisite: AID 145	AMT 240 - Powerplant Maint - Section II
AID 265 - ProfnI Practice of Intr Design	maintenance. The units of study are propeller systems, turbine engine theory, turbine engine maintenance, turbine engine systems, turbine ignition and starting systems, turbine engine induction systems, turbine inspection and troubleshooting. Prerequisite: AMT 230
,	ASL 101 - American Sign Language I(3:3:0)
AID 274 - Interior Systems	ASL Tot - American Sign Language (ASL), the natural Language of deaf people. This course will focus on the unique grammatical structure of ASL, its history, and its struggle for recognition as a language. Students will develop both expressive and receptive ASL. Prerequisites: None
AID 289 - Approved Technical Elective(3:0:0)	
Students may complete technical electives for which they have written prior approval of the department chairperson.	ASL 102 - American Sign Language II
AMT 110 - Airframe Maintenance General (12:8:12) The General section of the Airframe Maintenance program will introduce students to the fundamentals of aircraft maintenance. The	skills moving from discussion of their immediate experiences (home, family, etc.) to communication appropriate in an external environment (workplace, school, etc.). Both expressive and receptive skills will be developed. Prerequisites: ASL 101
units of study are: mechanic privileges and limitations, aircraft physics,	receptive skins will be developed. Prefequisites. ASL 101
aircraft drawings, maintenance forms and records, maintenance	ASL 103 - Fingerspelling/Nmbr use in ASL(3:3:0)
publications, materials and processes, fluid lines and fittings, cleaning and corrosion, weight and balance. Prerequisites: Test score or RDG	This course will offer students the opportunity to focus on
051 or NCS 052 or ESL 100 or RDG 120 and Test score or ENG 051	fingerspelling and signing numbers. Both receptive and expressive work will be done. All practice will be in the context of
or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or	authentic communication in American Sign Language. Both live
MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140	models and videotape will be used. Prerequisites: ASL 102
or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185	ACI 190 - Approved Technical Elective (0.00)
	ASL 189 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have
AMT 120 - Airframe Maintenance - AF I	written prior approval of the department chairperson.

program will introduce students to the fundamentals of aircraft

maintenance. The units of study are: ground operation and

ASL 201 - American Sign Language III(3:3:0)

A continuation of the fundamentals of American Sign Language II,

this course will broaden students' range of conversational skills, moving from discussion of their immediate experiences (home, family, etc.) to communication about more abstract concepts of the language in longer conversational dialogues. Both expressive and receptive skills will be enhanced. Prerequisites: ASL 102
ASL 202 - American Sign Language IV
ASL 203 - American Sign Language V
ASL 204 - Structure-Amer. Sign Language
ASL 289 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
AUT 014 - Basic Automotive Technology(2:1:2) This course is designed to provide the student an overview of the automotive repair field. Students are introduced to basic automotive maintenance and repair procedures as well as tools, measuring devices and diagnostic equipment. Prerequisites: None
AUT 016 - Basic Automotive Electrical(4:3:3) This course introduces the student to various automotive electrical and electronic components, operations and service procedures. Laboratory experiences include: building and analyzing electrical circuits, applying Ohms Law, and using electrical test equipment properly. This course also prepares the student to test, diagnose and repair automotive electrical systems and components. Lab includes testing, evaluation and diagnosis, and repair of vehicle. Prerequisites: AUT 014
AUT 018 - Basic Steering & Suspension
AUT 019 - Basic Auto Brake Systems
AUT 022 - Basic Auto Air Cond & Heating(2:1:3) This course introduces the student to automotive heating

and air-conditioning systems components, operations

and service procedures. Lab experience includes system evaluation, diagnosis and repair. Prerequisites: AUT 019

AUT 099 - Intermediate Automotive Tech.....(5:2:9) This course is a bridge course which contains the elements of fundamentals, electrical, steering and suspension, brakes and the HVAC system not covered in AUT 014, AUT 016, AUT 018, AUT 019 and AUT 022, Prerequisites: AUT 014 and AUT 016 and AUT 018 and AUT 019 and AUT 022. **AUT 101 - GM Automotive Fundamentals**.....(3:2:2) This course is designed to provide the student an overview of the automotive repair field. Students are introduced to basic automotive maintenance and repair procedures as well as tools, measuring devices and diagnostic equipment. Prerequisites: Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or RDG 051 or NCS 052 or ESL 100 or RDG 120 and Test score or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185 Co-requisite: AUT 161 and AUT 191 **AUT 114 - Intro to Automotive Technology**(3:2:2) This course is designed to provide the student an overview of the automotive repair field. Students are introduced to basic automotive maintenance and repair procedures as well as tools, measuring devices and diagnostic equipment. Prerequisites: (Test Scores or ENG 051 or higher) and (Test Scores or RDG 051 or higher) and (Mat 012 or higher). AUT 116 - Automotive Electrical(5:4:4) This course introduces the student to various automotive electrical and electronic components, operations and service procedures. Laboratory experiences include: building and analyzing electrical circuits, applying Ohms Law, and using electrical test equipment properly. This course also prepares the student to test, diagnose and repair automotive electrical systems and components. Lab includes testing, evaluation and diagnosis, and repair of vehicle accessories and chassis wiring. Prerequisites: Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or RDG 051 or NCS 052 or ESL 100 or RDG 120 and Test score or MAT 005 or NCS 005 or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 135 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185 Co-requisite: AUT 114 AUT 118 - Auto Steering & Suspen/Align.....(3:2:3) This course introduces the student to automotive suspension systems, components, and service procedures. Lab includes suspension and steering service, wheel alignment, and tire and wheel service. Prerequisites: AUT 114 and AUT 116 AUT 119 - Automotive Brake Systems.....(3:2:3) This course introduces the student to automotive brake systems, components, and service procedures. Lab includes hydraulic service, drum and rotor service, disc brake service, drum brake service, power brake service and anti-lock brake service. Prerequisites: AUT 122 **AUT 122 - Auto Air Conditioning/Heating**(3:2:3) This course introduces the student to automotive heating and air-conditioning systems components, operations and service procedures. Lab experience includes system

evaluation, diagnosis and repair. Prerequisites: AUT 119

Diagnostic skills and repair knowledge are applied in a sponsoring

service facility. Prerequisites: AUT 118 and AUT 119 and AUT 122

An introduction to the automotive service profession including aspect of the career opportunities, work characteristics, and employment requirements for the individual interested in automotive service career. Prerequisites: Test score or ENG 005 or ENG 051 or NSC 051 or ESL 034 or ESL 100 or ENG 121 or ENG 125 and Test score or	,
MAT 005 or NCS 005 or NCW 045 or MAT 075 or MAT 090 or MAT 012 or NCS 012 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 181 and Test score or RDG 005 or RDG 051 or NCS 052 or ESL 032 or ESL 100 or RDG 120.	works full-time as a student technician during the co-op period.
AUT 142 - GM Suspension Systems	At the dealership, the student puts newly acquired diagnostic and repair knowledge and skills into practice while working on customers' vehicles and performing daily dealership duties. Prerequisites: AUT 191 Co-requisites: AUT 142 and AUT 152
tire and wheel service. Prerequisites: AUT 101 and AUT 161 and AUT 191 and MAT 125. Co-requisites: AUT 151 and AUT 192	AUT 193 - GM Co-Op Work Experience III(3:0:16) This course is designed to reinforce classroom instruction with work experience at a General Motors dealership. The student works full-time
AUT 151 - GM Brake Systems	student puts newly acquired diagnostic and repair knowledge and skills
AUT 191 and MAT 125. Co-requisites: AUT 142 and AUT 192	AUT 202 - Automotive Engine Repair(3:2:4) This course introduces the student to various automotive engines and
AUT 161 - GM Electrical Systems	related components, their operations and service and repair procedures. Laboratory activities include hands-on exercises on trainer/dead engines relating to the operation, servicing and repair of the engines as well as related engine systems: cooling, lubrication, exhaust, and related systems. Students will also perform live engine evaluation and diagnosis. Prerequisites: (Test Score or MAT 012 or NCS 012 or MAT 015 or MAT 119 or MAT 120 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181) and (AUT 123 or AUT 153)
or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185 Co-requisites: AUT 101 and AUT 191	AUT 203 - Automotive Engine Performance(6:3:9) This course prepares the student to diagnose, repair, and service automotive electronic systems and components. Laboratory exercises
AUT 164 - Principles of Service Managmnt	such as computerized engine controls, electronic ignition, electronic fuel injection, and other accessories. Prerequisites: AUT 202
an operating automotive business. Prerequisites: AUT 162 AUT 165 - Principles of Parts Management(3:	AUT 205 - Manual Transmissions/Transaxle
The student is introduced to the field of Parts Management in the automotive industry. The course reviews duties and responsibilities necessary to be an effective Parts Manager in an operating automotive business. Prerequisites: AUT 162	service and repair procedures. Laboratory activities include hands-on exercises on transmissions and transaxles as well as related systems and components. Prerequisites: (Test score or MAT 012 or NCS 012 or MAT 015 or MAT 119 or MAT 120 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181) and (AUT 123 or AUT 153)
AUT 171 - GM Air Conditioning	AUT 208 - Automatic Transmissions
AUT 189 - Approved Technical Elective (3:0 Students may complete technical electives for which they have written prior approval of the department chairperson.	MAT 015 or MAT 119 or MAT 120 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181) and (AUT 123 or AUT 153)
AUT 191 - GM Co-Op Work Experience I	AUT 211 - GM Engine Repair
•	I and the second

AUT 124 - Intro to Automotive Svc Career(2:2:0) | works full-time as a student technician during the co-op period.

relating to their operation, service and repair as well as related engine systems: cooling, lubrication, exhaust, etc. Students will also perform engine evaluation, removal and installation. Prerequisites: AUT 221 and AUT 231 and AUT 294. Co-requisites: AUT 281 and AUT 295.	BAK 154 - Deposit Operations
AUT 221 - GM Automotive Transmissions(4:3:3) This course introduces the student to GM automotive drive train components, operations and service procedures. Labs include service, removal and replacement of automatic transmission and transaxle. Prerequisites: AUT 171 and	BAK 175 - Law and Banking
AUT 193 Co-requisites: AUT 231 and AUT 294 AUT 223 - Work Experience II	BAK 176 - Law and Bank Application
instruction. Diagnostic skills and repair knowledge are applied in a sponsoring service facility. Prerequisites: AUT 123	BAK 189 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
AUT 231 - GM Manual Transmissions	BAK 254 - Supervisory Training
AUT 281 - GM Engine Performance	BAK 261 - Analyzing Financial Statements(4:0:0) Students employed by the banking industry who have an American Institute of Banking, Delaware Chapter transcript may apply for transfer credit for this course. Prerequisites: None
injection, and other accessories. Prerequisites: AUT 221 and AUT 231 and AUT 294. Co-requisites: AUT 211 and AUT 295.	BAK 265 - Marketing for Bankers
AUT 289 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	apply for transfer credit for this course. Prerequisites: None BAK 270 - International Banking
AUT 294 - GM Co-Op Work Experience IV(5:0:24) This course is designed to reinforce classroom instruction with work experience at a General Motors dealership. The student	American Institute of Banking, Delaware Chapter transcript may apply for transfer credit for this course. Prerequisites: None
works full-time as a student technician during the co-op period. At the dealership the student puts newly acquired diagnostic and repair knowledge and skills into practice while working on customers' vehicles and performing daily dealership duties.	BAK 289 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
Prerequisites: AUT 193 Co-requisites: AUT 221 and AUT 231 AUT 295 - GM Co-op Work Experience V	BIO 100 - Medical Terminology
works full-time as a student technician during the co-op period. At the dealership, the student puts newly acquired diagnostic and repair knowledge and skills into practice while working on customers' vehicles and performing daily dealership duties. Prerequisites: AUT 294 Co-requisites: AUT 211 and AUT 281	BIO 101 - Advanced Medical Terminology(3:3:0) The course is designed for individuals who wish to continue the study of advanced medical terminology as it relates to clinical medicine, surgery, laboratory medicine, pharmacology, radiology, and pathology. It includes the use of medical references and other
BAK 121 - Prin. of Bank Operation	resources for research and practice. Prerequisites: BIO 100
American Institute of Banking, Delaware Chapter transcript may apply for transfer credit for this course. Prerequisites: None	BIO 106 - Basic Nutrition Concepts
BAK 125 - Bank Cards	healthy lifestyle and well-being. Prerequisites: None

relating to their operation, service and repair as well as related engine

apply for transfer credit for this course. Prerequisites: None

BAK 154 - Deposit Operations(3:0:0)

BIO 108 - Basic Pharmacology	BIO 127 - Environmental Microbiology
BIO 110 - Essentis-Anatomy & Physiology	This course includes the study of the physiologic and biologic manifestations of disease and the adaptations that the body makes to the changes produced by the disease process. Prerequisites: BIO 120 BIO 140 - General Biology
BIO 115 - Nutrition	interaction of organisms with their environment. Prerequisite: Test score or RDG 051 and test score or ENG 051. BIO 150 - Biology I
BIO 120 - Anatomy and Physiology I	BIO 151 - Biology II
BIO 121 - Anatomy and Physiology II	BIO 189 - Approved Technical Elective
BIO 123 - Clinical Functional Anatomy	and fundamentals of the immune system are included. Laboratory experiments are an integral part of this course. Prerequisites: BIO 120 or BIO 150 and CHM 100 or CHM 110 or CHM 150 BIO 289 - Approved Technical Elective
BIO 124 - Review of Physiology	written prior approval of the department chairperson. BIT 260 - Biotechnology I
BIO 125 - Introductory Microbiology	of this course. Prerequisites: BIO 250 and CHM 151. BIT 261 - Biotechnology II

as bioinformatics, micro-propagation of plants, and microarrays.
Laboratory work, including related experiments and current
techniques, is an integral part of this course. Prerequisites: BIT 260

techniques, is an integral part of this course. Prerequisites: BIT 260
BIT 265 - Bioinformatics
BIT 270 - Honors Biotechnlgy Internship(2:0:7) Upon recommendation by the instructor, the student placed in this honors internship will gain experience working as a laboratory technician in research, industrial, service, manufacturing or other facility in the biology, biotechnology or related field. Prerequisites: BIT 260
An overview of accounting information for the non-business major. Emphasis is placed on the interpretation of accounting information. Attention is given not only to the basic concepts and structure of accounting and resultant financial statements but also to present and future value, inventory costing methods, depreciation, capitalization, and budgeting. Prerequisites: None
BUS 101 - Introduction to Business
BUS 105 - Introduction to Exporting(3:3:0) Specifically proposed to meet the needs of all levels of employees, especially mid-management level, to enable them to know and perform export operations. This course surveys the basic knowledge and procedures necessary to package, ship, track, and insure merchandise as it moves through the international marketplace. Prerequisites: None
BUS 120 - Export Import Practices & Proc (3:3:0) Hands-on exposure to the importing/exporting process; proficiency in trade regulations, customs, freight forwarding; preparation of documentation necessary for financial transactions. Prerequisites: None
BUS 189 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
BUS 203 - Business Law(3:3:0) A survey course, which takes a general view of our legal system before focusing on the area of Business Law. Business Law topics include offer, acceptance, and consideration, competence of parties, the Statute

of Frauds, parole evidence and termination, and the U.C.C. Related

Prerequisites: BUS 101 and (Test score or ENG 121 or ENG 125).

Provides an opportunity for students to learn through experience

topics include commercial paper, agency, and personal property law.

BUS 211 - Business Co-Op I.....(5:0:15)

the organization of the business in which they are employed, the analysis of duties and responsibilities, lines of authority, standards of work required, and formal and informal patterns of communication. A written formal report is required for credit. Prerequisites: None BUS 212 - Business Co-Op II(5:0:15) Provides an opportunity for students to learn through experience the organization of the business in which they are employed, the analysis of duties and responsibilities, lines of authority, standards of work required, and formal and informal patterns of communication. A written formal report is required for credit. Prerequisites: None BUS 213 - Small Business Management(3:3:0) Presents critical areas that concern a small business, including selecting a type of business, planning and organization, capital requirements and sources, basic accounting, location and layout, and employee relations. Prerequisites: ENG 121 BUS 214 - Investments(3:3:0) Analysis of the requirements for a sound investment program including stocks, bonds, mutual funds, options, commodities, and other private and public securities. Includes the functions of markets, sources of information, portfolio theory, and risk analysis. Prerequisites: BUS 101 and ACC 112 and ENG 121 **BUS 269 - Research Report**.....(3:3:0) Designed to meet the needs of accounting and marketing/ management students for specific research related to the student's major study area. Prerequisites: ENG 122 BUS 275 - Portfolio/Experiential Lrning.....(3:3:1) This course prepares students with the workplace skills necessary for professional job placement. Emphasis is given to selfassessment techniques, career planning tools and professional workplace behavior. The student will construct a professional portfolio that includes work samples, a job search package and a reflection on the required Experiential Learning component. Prerequisites: ACC 112 and BUS 101 and MGT 212 and MKT 212 BUS 289 - Approved Technical Elective.....(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson. BUS 291 - Business Ethics Honors (3:3:0) This course will be devoted to an examination of some of the ethical and contemporary issues which arise in the field of business. Specific topics include ethical considerations in economics, politics, marketing, management, accounting, computer information, office systems, and other issues as appropriate. In addition to the course outline of BUS 221, Business Ethics honors includes an appropriate approved project. Prerequisites: BUS 101 and ENG 121 CEN 100 - Intro Elec & Computer Eng Tech......(3:2:2) This course introduces the practice of electronic engineering technology concepts. Career opportunities, professional ethics, working in teams, introduction to engineering problem solving, and use of calculators and computers as tools for problem solving are covered. Prerequisites: (Test Score or MAT 012 or higher) and ((Test Sscore or ENG 051 or concurrent or higher) and (Test Score or RDG 051 or concurrent or higher)) or (Test Score or ENG 099 or concurrent or higher)). CEN 105 - Programming for Technology(3:2:2) An introduction to object-orientated programming using electronics

and computer technology related exasmples. Topics to be covered: Algorithms, flowcharting, documentation, testing and debugging, and programming techniques. Prerequisites: ELC 118 or ELC 120 and Test score or MAT 015 or MAT or 016 or NCW 045 or MAT 075 or MAT 181 or MAT 182 or MAT 185 or MAT 281 and Test score or and Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125and Test score or RDG 051 or ESL 100 or RDG 120
CEN 110 - Computers & Technology (3:2:2) An introduction to the computer as used in technologies. Both the IBM and Macintosh computing environments will be explored.

An introduction to the computer as used in technologies. Both the IBM and Macintosh computing environments will be explored. Topics to be covered will be terminology and use of the computer through computer-aided-sketching and graphics, basic data communications terminology, introductory DOS operations as well as word processing, spreadsheeting, and databasing. Hands-on activities are emphasized. Prerequisite: Test score or RDG 051

CEN 150 - Computer Assembly/Maint.....(4:3:2) This course provides the fundamentals of supporting and troubleshooting computer hardware and software. Topics include installing and replacing major hardware components;

include installing and replacing major hardware components; designing and constructing complete systems; and installing, configuring, and troubleshooting various operating systems.

Prerequisites: (Test score or ENG 051 or higher) and (Test score or RDG 051 or higher) or Test score or (ENG 090 or ENG 090 concurrent) or (ENG 091 or ENG 091 concurrent) or higher.

CEN 160 - Computer Graphics I(4:3:2)

An introduction to computer graphics using a graphical application program such as COREL Draw. Students will learn the basic operation of the computer and the application program by completing projects comparable to those in the graphics industry. IBM and Macintosh computers will be used. Prerequisite: Test Score or RDG 051 and CEN 110 or ELM 110

A continuation of Computer Graphics I. Advanced operations and techniques will be covered. Projects for industrial applications will be completed by the student. Prerequisites: CEN 160

CEN 180 - C/C++ Language Intro(4:3:2)

This course introduces object-oriented programming using electronics and computer technology related examples. Topics include algorithms, arrays, documentation, flowcharting, input/output functions, loops,

pointers, structures, testing and debugging, and programming techniques. Prerequisites: ELC 125 or ELC 125 concurrent

CEN 189 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

CEN 200 - Introduction to MATLAB.....(2:1:2)

This course provides an introduction to the basic principles of programming and implementation of mathematical and electrical engineering technology concepts using MATLAB. Prerequisites: (CEN 180 or CIS 120 or CSC 114) and (ELC 225 or ELC 266 or concurrent) and (MAT 182 or MAT 185 or MAT 281)

CEN 220 - Digital Data Comm w/ Networks(4:3:2)

A study of computer interfacing and networking. Interface techniques such as RS 232, RS 422, etc. will be covered. UARTs and advanced modem operation are presented. Networking through simulations and observation are included with telephone switching systems. Prerequisites: CEN 120

CEN 222 - Windows Operating System(4:3:2)

This course is designed to teach the student about the installation, configuration, and maintenance of Windows, both the workstation and server versions. It will cover Windows peer-to-peer networking capabilities and its integration with other network environments, including the World Wide Web. Prerequisites: CEN 120

CEN 223 - Unix Opertng System & Networks.....(4:3:2)

A complete coverage of the UNIX operating system, including shells, utilities, x-windows, and networking. Prerequisites: CEN 222

CEN 224 - Computer Networks.....(4:3:2)

Students will learn basic networking concepts, features and functions of network components. Students will install, configure and troubleshoot basic network hardware, peripherals and protocols, Server 2003, Unix/Linux, and wireless networks. This course covers CompTIA Network+certification objectives. Prerequisites: CEN 150 and (ELC 118 or ELC 120 or ELC 124).

CEN 225 - Intro to Network Security.....(4:3:2)

Students will learn network security basics, vulnerabilities of operating systems, network security objectives, architecture, models, policy and differnet layers of security. This course will help students prepare for CompTIA Security+ exam. Prerequisites: (ELC 118 or ELC 120 or ELC 124) and ELC 130 and CEN 150 and CEN 224.

CEN 230 - Troubleshooting Computer Sys(3:2:2)

A study of software and hardware problems, identification of bad components, mechanical problems, and other operational failures of microcomputer equipment. The course will include the use of diagnostic software, installation of software drivers, and installation of new hardware and software. Logic analysis methods, software, and devices will be used. Prerequisites: CEN 150 and ELC 130.

CEN 232 - Adv Computer Troubleshooting..... (4:3:2)

A continuation of CEN 230. Board level troubleshooting and repair will be covered. Peripheral equipment operation and repair also will be included. Prerequisites: CEN 230

CEN 235 - Fiber Optics with Networks(4:3:2)

This course covers fiber optic to include principles of fiber optics, its components, system design, completed systems,

test equipment, industrial applications, and fiber option networks (FDDI). Prerequisites: CEN 120 and ELC 130	
CEN 250 - Data Structures in C	arrays, structures, nments in
CEN 255 - Adv Data Structures in C++ This course covers the C++ language to include structuring to C++. Object-oriented programs will be intro Laboratory assignments are oriented to the IBM-PC at or VAX minicomputer. Prerequisites: CEN 250	ctures oduced.
CEN 280 - Specific Prob in Engr Techno Special problems in programming, hardware, or interassigned by the instructor. Prerequisites: CEN 223 an	rfacing as
CEN 289 - Approved Technical Elective Students may complete technical electives for which written prior approval of the department chairperson.	they have
CEN 290 - Internship	ion such
CET 125 - Civil & Envl Drafting & Design This course introduces students to drawing and design encountered in the area of Civil & Environmental Enginclude site analysis, site layout, grading and drainage and profiles, erosion control and sustainable site design and Develop a commercial site design and produce the set to include Existing Features Plan, Record Plan, Grand Erosion Control Plan. Prerequisites: (Test score of and (Test score of ENG 051 or ENG 099 or NCS 051 of ENG 121 or ENG 125) and (Test score or MAT 075 or MAT 140 or MAT 153 or MAT 181 or MAT 185 or M	gn problems ineering. Topics e, utility layout ign. Design ne drawing rading Plan or RDG 120) or ESL 100 or MAT 090
CET 135 - Engineering Materials	oroperties, and of Civil and e wood, timber, ent, Portland ts. Laboratory I. Prerequisites: es or ENG 051 NG 125) and
CET 144 - Surveying Principles	use of tapes, tion, traverse and truction and route horizontal curves, ork computations,
CET 146 - Surveying Theory and practice of plane surveying including the tapes, levels, theodolities, lasers, and total stations. Some levels are blame in leveling traversing manning or the surveying manning or the survey in the sur	use of

complete problems in leveling traversing, mapping and construction

surveying. A strong emphasis is placed on field procedures and

gathering and recording of data. Prerequisites: Test score or MAT 015 or MAT 016 or MAT 181 and Test score or RDG 120

CET 189 - Approved Technical Elective(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

CET 225 - Civil CAD Applications.....(3:2:3)

This course provides advanced Computer Aided Drafting and Design (CADD) practices encountered in the Civil Engineering field. Topics covered include topographic survey and analysis, residential lot layout, street layout, profiles and sections, utility layout and profiles, grading and structural applications. Students receive a working knowledge in Civil CADD site modeling and surveying applications. Prerequisites: CET 125 and EDD 171 and (MAT 181 or MAT 185 or MAT 281) and (Test Scores or ESL 100 or RDG 120) and (CET 144 or CET 144 concurrent)

CET 230 - Principle of Environmental Sys.....(4:3:3)

Basic principles of fluid mechanics and their application in the design of civil engineering projects. Topics covered include the pressure-elevation relationship, forces on submerged planes, Bernoulli equation, energy losses, open channel flow, culvert design, rational and SCS rainfall methods, and the design of detention basins, water supply and waste water systems. The topics of erosion control and wetlands are introduced. Prerequisites: CET 256

CET 234 - Prin. of Geotechnical Engineer.....(4:3:2)

Application of principles of soil engineering including the study of physical and mechanical properties of soils. Soil exploration, soil compacting, flow of water in soils, stress distribution in soil, consolidation of soil and settlement of structures, shear strength of soil, shallow and deep foundations, and stability analysis of slopes are studied. Laboratory work involves problem solving and experiments. Prerequisites: CET 256

CET 236 - Soils.....(3:2:2)

Principles of soil engineering including the study of physical and mechanical properties of soils, design considerations, and construction applications. Emphasis is placed on field and laboratory identification and testing. Prerequisites: Test score or RDG 120 and MAT 181

CET 238 - Concrete and Asphalt(3:2:2)

Practical knowledge of portland concrete cement and bituminous concrete including aggregate, cement and asphalt. Emphasis is placed on field and laboratory testing for quality control. Prerequisites: Test score or RDG 120 and MAT 181

CET 240 - Hydraulics and Hydrology(4:3:3)

This course applies the basic principles of hydraulics as related to the design of pipe distribution system, the sizing and selection of pumps, open channel flow, flow through hydraulic structures, and the elements of hydrology, including rainfall runoff analysis, drainage design, and flood flow analysis. Prerequisites: (Test score or RDG 120) and (MAT 181 or MAT 185 or MAT 281) and (CET 125 or CET 144 or CET 146).

CET 244 - Principles of Site Development(4:3:3)

Fundamental concepts of site and subdivision planning. Consideration given to zoning and subdivision ordinances, and governmental regulations. Site design project will include design calculations and complete construction drawings for a small subdivision. Prerequisites: CET 125 and CET 144 and CET 230

CET 245 - Advanced Surveying Principles(4:3:3)

The study of the methods and computations of advance surveying. Students learn surveying techniques based on the Global Positioning System (GPS) including static and kinematic surveying. Additional topics covered include control surveys and geodetic reductions, state plane coordinates, surveys of public lands, photogrammetry, and an introduction to geographic information systems (GIS). Prerequisites: (CET 144 or CET 146) and (CET 125 or CET 251 or CET 251 concurrently).

CET 247 - Route Surveying and Design.....(3:2:3)

This course introduces fundamental principles of highway and road design to include safety, speed, terrain, and operating volumes as they apply to roadway width, side slopes curvature, and gradient. Design problems include horizontal curves, compound curves, cross-section areas and volumes, and vertical curves with road alignments. Prerequisites: CET 144 and CET 125 and EDD 171 and (Test scores or ENG 121 or ENG 125) and (Test scores or ESL 100 or RDG 120)

CET 248 - Boundary Surveying and Law.....(3:3:0)

Students study the fundamentals of boundary control and legal principles associated with land surveying. Problems dealing with boundary control and location, site development, topographic mapping, subdividing, contour/runoff, and other common land surveying practices are covered. Students use total stations and computers to process data. Prerequisites: CET 144 or CET 146.

CET 251 - Topographic Drafting(3:2:3)

Application of drafting skills to areas of civil drafting including plots, profiles, topographic mapping, contours, cuts, and fills. Assignments will include site plans, highway layout, and subdivision. Prerequisites: (AET 123 or AET 125) and (CET 144 or CET 146) and EDD 171.

CET 256 - Static & Strength of Materials.....(5:4:2)

Topics include the fundamental principles of engineering mechanics including the analysis of force systems on rigid bodies in static equilibrium. Students will also study stresses and strains found in materials subjected to axial, shear, and bending stresses. (The laboratory experiments illustrate the physical properties of materials, the physical basis of stress and strain analysis and the techniques of materials testing. All students are required to prepare laboratory reports.) Prerequisites: Test score or RDG 120 and MAT 181

CET 258 - Statics with Calculus.....(3:3:1)

This course covers particles, rigid bodies, trusses, frames and machines. Students study rigid objects that are either at rest or move with a constant velocity and that are subject to forces. Topics include calculating forces acting on and within such objects to understand their behavior and to inform their design. Prerequisites: MAT 281 and PHY 281

CET 270 - Solid Mechanics with Calculus.....(3:3:1)

The course covers topics including the concepts of stress and strain, plane stress, transformation of stress and strain, Mohr's circle, material properties, and stress-strain relationships. This course provides determination of stresses and displacements in axially loaded members and pressure vessels, stresses and displacements in round bars subject to torsion, impact, and dynamic loads. The basic mechanics for the design and analysis of simple structures, and mechanics of deformable bodies is included. Prerequisites: CET 258 and (Test Scores or ESL 100 or RDG 120)

CET 271 - Structural Design I(4:3:3)

Introduction to elastic design of structural steel framing members. A thorough knowledge of the American Institute of Steel Construction

Manual and orderly computation procedures is required. Laboratory work involves the preparation of engineering drawings and shop details for a building with emphasis on structural steel members and connections. Prerequisites: CET 256 and PHY 171

CET 272 - Structural Design II(4:3:3)

Introduction to working stress and strength of reinforced concrete. A thorough knowledge of the ACI Building Code is required. Engineering drawings and details are prepared for an industrial design project with emphasis on reinforced concrete structures. Prerequisites: CET 271

CET 289 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

CHM 050 - Chemistry Fundamentals(3:2:2)

This course is designed for students with little or no chemistry background. The student will explore the basic foundations of chemistry, including the fundamentals of measurement, chemical bonding, nomenclature, physical and chemical changes, chemical equations and the gas laws. Prerequisites: Test score or RDG 051 or ESL 100 or NCS 052 or RDG 120 and Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 150 or MAT 015 or MAT 016 or NCW 045 or MAT 075 or MAT 141 or MAT 153 or MAT 181 or MAT 182 or MAT 185 or MAT 251 or MAT 261 or MAT 281

CHM 100 - Basic Chemistry(3:2:2)

This preparatory course in the basic concepts of chemistry includes the systems of measurement, matter and energy, atomic theory, periodic table, bonding, nomenclature, equations, gases, liquids and solids, acids and bases, organic and biochemistry. Laboratory experiments are used to illustrate theory. Prerequisites: Test score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test Score or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 135 or MAT 140 or MAT 141 or MAT 153 or MAT 181 or MAT 182 or MAT 185 or MAT 251 or MAT 261 or MAT 281 and Test score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120.

CHM 101 - Introduction to Chemistry(1:1:0)

This course is designed for students with no chemistry background. It is an introduction to basic concepts of chemistry, concentrating on chemical bonding, physical and chemical changes, types of chemical reactions, acids, bases, and salts. Prerequisite: None

CHM 110 - General Chemistry.....(4:3:2)

This course is designed for students majoring in technical areas other than chemistry. It includes chemical reactions, the metric system, structure of matter, nomenclature, gases, solutions, acids, bases, and nuclear chemistry. Laboratory experiments are used to illustrate theory. Prerequisites: (Test score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120) and (Test score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test score or MAT 015 or MAT 075 or NCW 045 or MAT 090 or MAT 135 or MAT 140 or MAT 141 or MAT 153 or MAT 181 or MAT 182 or MAT 185 oor MAT 251 or MAT 261 or MAT 281).

CHM 111 - Intro to Organic & Biochemstry.....(4:3:2)

This course includes a study of the structure and reactions of organic compounds and a basic survey of biochemical reactions involving carbohydrates, lipids, and proteins and their metabolism. A laboratory sequence illustrates theory. Prerequisites: CHM 110

This course examines the properties and behavior of the principle types of hazardous materials, and their proper storage, handling, transportation and disposal. A survey of pertinent legislation and incident response techniques is presented. Discussion is supplemented with laboratory demonstrations. Prerequisites: CHM 110	quantitative analysis. Analytical processes and procedures, good laboratory practices, statistics, sampling, chemical equilibria, and High Performance Liquid Chromatography (HPLC) analysis will be examined. Laboratory experiments are used to illustrate theory. Pre-requisites: CHM 151 and CIS 107
CHM 130 - Environmental Chemistry(4:3:3) This course is the application of chemistry to the environmental field. Covered topics include the environmental chemistry of water, soil and air. Laboratories include the standard methods of detection and quantitative analysis of these parameters. Prerequisites: CHM 111 and ENV 110	CHM 251 - Analytical Chemistry II
CHM 140 - Basic Organic Chemistry(4:3:2) A study of organic compounds and reactions and their applications as they relate to energy, plastics, hazardous materials, the environment and health. A laboratory sequence illustrates theory. Prerequisites: CHM 110	CHM 265 - Biochemistry
CHM 150 - Chemical Principles I	CHM 270 - Honors Chem Techn Internship
CHM 151 - Chemical Principles II	written prior approval of the department chairperson. CIS 101 - Computers in Allied Health
Students may complete technical electives for which they have written prior approval of the department chairperson.	CIS 107 - Intro to Computers/Application(3:2:2) This course is an overview of the computer information systems
CHM 240 - Organic Chemistry I	concepts. Students will learn how to use an Operating System and common PC applications such as word processing, spreadsheets, presentation, and database software. This course also includes an introduction to the internet. Prerequisites: Test score or RDG 051 or NCS 052 or ESL 100 or RDG 120 and Test score or ENG 005 or ENG 051 or NCS 051 or ESL 034 or ESL 100 or ENG 121 or ENG 125 and Test score or MAT 012 or MAT 012 concurrent or NCS 012 or
CHM 241 - Organic Chemistry II	NCS 012 concurrent or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185 CIS 112 - Spreadsheet/Graphics Proc
CHM 245 - Intro to Industrial Chemistry(4:4:0) Chemical processes are considered from raw materials to products. Included are materials handling, unit operations,	then used for problem solving and decision-making. Students also learn to use spreadsheet graphics tools to create charts, graphs, and slides for presentations. Prerequisites: CIS 107 or CIS 110 or CIS 120 or CIS 125
measurements, safety in the chemical workplace, industrial chemicals, and petrochemicals. Synthesis, properties and uses of polymers are also studied. Prerequisites: CHM 240	CIS 118 - Intro to Relational Databases
CHM 250 - Analytical Chemistry I(5:4:4)	modeling. Students will learn structure, concepts, and methods to create, insert, and query data in the database. Prerequisites: Test score or MAT 015 or MAT 016 or NCW 045 or MAT 075 or

This course is the first of a two-semester sequence covering

CHM 115 - Chemistry of Hazardous Matl.....(3:3:0)

MAT 141 or MAT 153 or MAT 181 or MAT 182 or MAT 185 or MAT 251 or MAT 261 or MAT 281 and Test score or RDG 051 or NCS 052 or ESL 100 or RDG 120 and (CIS 107 or CIS 120)

CIS 120 - Intro to Programming.....(4:3:2)

An introduction to programming with a high level procedural language covering development of algorithms, flowcharting, documentation, testing and debugging, and programming techniques. Topics include logic, functions, arrays, sorting data types, file manipulation, and data structures. Prerequisites: (Test score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120) and (Test score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 016 or NCW 045 or MAT 075 or MAT 090 or MAT 135 or MAT 140 or MAT 141 or MAT 153 or MAT 181 or MAT 181 or MAT 182 or MAT 185 or MAT 251 or MAT 261 or MAT 281).

CIS 121 - Expert Systems.....(3:2:2)

This course introduces expert systems as a component of artificial intelligence. It is a skill development course in which students develop, and implement small expert systems using current expert system shells and tools. Prerequisites: CIS 120

CIS 125 - Window Based Operating Systems(4:3:2)

This course is an overview of graphic user interfaces (GUI) with an emphasis on personal computers. The student will learn to use a graphical user interface such as Microsoft Windows, to install, optimize, and operate a GUI, to allocate and manage system resources, and to establish communications links between objects. Prerequiaites: Test score or RDG 051 or NCS 052 or ESL 100 or RDG 120 and Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185

CIS 130 - Computer Organization.....(3:2:2)

The computer is introduced as a hierarchy of levels. Topics include digital logic, micro-programming, memory, input/output (I/O) computer arithmetic, instruction sets, central processing unit (CPU) structure, control unit operation, parallel organization, reduced instruction set computers (RISC), and assembly language. Prerequisite: CIS 120 or CSC 114

CIS 140 - Computer Architecture(3:2:2)

The course covers the internal function and organization of digital computers and the interrelationship between operating systems and architecture. Topics include instruction sets, addressable methods, I/O architecture, CPU organization, machine and assembly language, as well as basic concepts of logic as applied to computing. Prerequisites: CIS 120 and CIS 141.

CIS 141 - Operating Systems I.....(3:2:2)

This course is an overview of two computer operating system. Students will be introduced to Windows 7 and Linux and given hands-on training. Prequisites: (Test score or RDG 051 or NSC 052 or ENG 099 or ESL 100 or RDG 120) and (Test score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test score or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185)

CIS 145 - Networks/Distributed Sys.....(4:3:2)

The upper layers of ISO OSI model and the principles of distributed operating systems will be developed. Existing protocol suites such as TCP/IP, MAP, and/or TOP will be examined. Distributed file systems such as NFS and/or Andrew will be considered. Prerequisites: CIS 120

CIS 146 - Computer Networking I.....(4:3:2)

This is part one of a two-part course covering the design, installation, maintenance and support of computer networks. The upper layers of ISO OSI model and the principles of distributed operating systems will be developed. Existing protocol suites such as TCP/IP, MAP, and/or TOP will be examined. Distributed file systems such as NFS will be considered. Prerequisites: CIS 120

CIS 150 - Intro to Object-Orntd Prgrmmng.....(3:2:3)

This course introduces object-oriented programming and the construction and manipulation of classes and objects. Object-oriented programming concepts, algorithms, techniques, and libraries are also reviewed. Prerequisite: CIS 120

CIS 160 - Internet/Web Construction(3:2:2)

This course covers internet with emphasis on World Wide Web. Topics include constructing and administrating a web server, and developing web applications. Prerequisites: CIS 120 or CIS 125.

CIS 170 - Internet/Web Multimedia.....(3:2:2)

This course introduces the creation of internet/web multi-media objects which are then used in presentations, productions, web publishing, and other multimedia-related applications. Prerequisites: CIS 120 or CIS 125

CIS 180 - Internet/Script Programming.....(4:3:2)

In this course, student will learn how to work with Dynamic HTML to enhance Web page visual design/presentations and how client- and server-side scripts (such as JavaScript, VBScript) are used in Web programming to dynamically manipulate Web page contents. Prerequisites: CIS 120 and CIS 160.

CIS 189 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

CIS 190 - Network Inst/Maintenance(3:2:2)

This course introduces the student to local area network (LAN) fundamentals and terminology. Topics include selection of LAN interface cards, cable, wiring plans, server operating systems software and hardware; merging of two different LANS into existing networks; and isolating and diagnosing LAN software and hardware problems. Prerequisite: CIS 110 or CIS 120 or CIS 125

CIS 194 - Networking Technologies.....(3:3:1)

This course provides students with a networking operating systemindependent overview of networking media, topologies, standards, implementations issues, and troubleshooting techniques, and provides students with the prerequisite knowledge to prepare for CompTIA's Network+ certification exam. Prerequisites: CIS 195

CIS 195 - Network Administration.....(4:3:2)

This course introduces the student to local area network (LAN) management and administration. Topics include data communications, workstation services, network directories, user account management, printer sharing, security, electronic mail, scheduling software, installation and maintenance of third-party software. Prerequisites: CIS 107 or CIS 120.

CIS 196 - Computer Networking II	techniques for the construction and efficient implementation of same. The course uses the C language and required extensive programming. Prerequisites: CIS 120 and CIS 141.
terminology. Topics include selection of LAN interface cards, cable, wiring plans, server hardware and operating system software; configuration and installation of two or more different LANs; LAN maintenance; integrating LANs into existing networks; and isolating LAN software and hardware problems. Prerequisites: CIS 146	CIS 212 - Internetworking & Support(MS)(4:3:2) This course introduces the student to internetworking with Microsoft networks and prepares the student to take the appropriate Microsoft MCSE certification exams. Prerequisites: CIS 197
CIS 197 - Network Adv Admin (MS)	CIS 214 - Internetworking & Support(NOV)
CIS 199 - Data Comms & Networking	CIS 220 - COBOL
CIS 201 - Microdatabase Programming	CIS 221 - Advanced COBOL
CIS 205 - Intro Object Orient Programmng	CIS 238 - Database Design & Programming
CIS 207 - Visual Programming	This course introduces the modeling concepts and design technology used in the analysis of business problems and the development of alternative solutions involving computers. It includes the design, construction, and implementation of a computerized business system with special attention given to the information systems. Prerequisites: CIS 238 or CNE 215 or CNE 216
of moderate complexity. In addition, participants will analyze and modify larger, more complex applications. Prerequisites: CIS 120 CIS 209 - Visual Programming	CIS 246 - Networking III
CIS 210 - Data Comms/Networking	individual and group lab work is required. Prerequisites: CIS 196 CIS 247 - Networking IV
CIS 211 - Data Structures	CIS 248 - Networking V

CIS 249 - Networking VI(4:3:2) Student will learn how to baseline and troubleshoot an environment using routers and switches for multi-protocol client hosts and servers connected with both; Ethernet and Fast Ethernet LANs; and	CIS 289 - Approved Technical Elective
Serial, Frame Relay, and ISDN BRI WANs. The course provides students with methodical practice using specific Cisco IOS software and switching software tools to diagnose and correct problems on widely installed networking equipment. Prerequisites: CIS 248	CIS 293 - Co-Op I
CIS 250 - Operating Systems II	CIS 294 - Co-Op II
require work in both environments. Prerequisites: CIS 141 CIS 251 - Programming Language II	CIS 295 - Industrial Co-Op Training
CIS 253 - Open Source Software	CLT 101 - American Deaf Culture
cis 260 - Internet/Web Commerce	CLT 110 - Cross-Cultural Immersion
CIS 280 - Applied Programming Workshop	CLT 201 - Current Issues in Deafness
CIS 281 - Topics in Microcomputers	CLT 289 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
CIS 282 - Topics in Programming Language(4:3:2) An introduction to programming languages of different paradigms such as LISP, PROLOG, and/or some special purpose programming language. Prerequisites: CIS 120	CMM 905 - Chrysler Trng-Mobile Eqp Repr(45:0:0) Course credit awarded for successful completion of the Chrysler apprenticeship mobile equipment repair training program. Certification verifying journeyman status from the Chrysler training facility is required.
CIS 283 - Topics in Operating Systems	CMT 111 - Construction Print Reading

emphasized. Prerequisites: (Test scores or RDG 051 or higher) scores or ENG 051 or higher) and (Test scores or MAT 012 or I	
CMT 125 - Construction Project Admin. The course prepares the student to use procedures and techn involved in controlling, coordinating, and managing the construproject processes. Topics include: hierarchy of authority on corprojects, establishment and coordination of field office, inspect responsibilities, keeping documentation: records and reports, construction laws and labor relations, construction safety, mee negotiations, pre-construction operations, planning for construity job site operations, progress payments, materials and workman change orders claims and disputes, and project close-out. Empirically be placed on the general construction field. Prerequisites: a score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 or MAT 012 or MAT 012 or MCS 012 or MAT 015 or NCW 045 or 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 181 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185 and Test score or RDG 051 or ESL 100 or NCS 052 or RD	niques uction nstruction stings and uction, nship, shasis Test 125 and MAT 130 or
CMT 189 - Approved Technical Elective	
CMT 224 - OSHA Constr Industry Training	afety gnition, ards J on of
CMT 234 - Cost Estimating/Planning	als, and t methods are to NG 121)
CMT 235 - Adv Cost Estimating/Planning This course provides an in-depth analysis of commercial construction costs, bid preparation and value engineering with regard to budgetary constraints. Different methods of estimati using productivity software are presented. Prerequisite: CMT 2	ing
CMT 242 - Constr Project Management I	nt using of job method timates,

CMT 243 - Co-op Work Experience.....(3:0:9)

CMT 244 - Constr Project Management II.....(4:3:3)

This course is a cooperative educational work experience. Students develop technical skills, investigate career choices, build confidence, network with people in the field, and transition in entry into the workforce. Prerequisite: CMT 111 and CMT 234.

This course further develops an understanding of project

management using productivity software. Primary topics include

job organization and coordination, project scheduling, critical path

cost estimates, and reporting. Emphasis is placed on commercial construction contracts, including planning, scheduling, controlling, and analyzing project progress. Prerequisite: ENG 102 and ACC 101 or concurrent, and CMT 234 and CMT 242
CMT 289 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
CNE 180 - Computer Assmbly & Maintenance(4:3:2) This course provides an overview of the personal computer and its components. Students explore and assemble personal computers. An introduction to non-component troubleshooting is included. Prerequisites: (Test scores or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120)
CNE 191 - Router Configuration
CNE 192 - Network Administration
CNE 215 - Enterprise Server Admin
CNE 216 - Open Source Server Admin
CNE 280 - Advanced Networking Topics(3:2:3) This course covers advanced topics in network design and implementation to include real-world tasks related to the field of networking. Prerequisites: CNE 215 and CNE 216
CNE 284 - Cloud Computing
COM 011 - Intro to Human Communication(3:3:0) This introductory course focuses on the development of interpersonal communication skills. Emphasis will be placed on the practical application of these skills. Prerequisites: Test score or ENG 005 and Test score or RDG 005
COM 110 - Intro. to Video Production

of video production. This course is designed to help students learn

will learn how to obtain video using digital video cameras and will

learn to digitally edit using industry standard software. Students

to use video as an effective form of communication. Students

method (CPM) scheduling techniques, materials management,

will practice pre-production planning and writing, production procedures, and post-production editing. Prerequisites: (Test Score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test Score or RDG 051 or NCS 052 or ESL 100 or RDG 120).
COM 111 - Human Communications(3:3:0) Human communications is based on the premise that no person lives and works in isolation. From both the personal and occupational

Human communications is based on the premise that no person lives and works in isolation. From both the personal and occupational perspectives, one must be able to communicate with others efficiently and effectively. This course focuses on theory and application of both intrapersonal and interpersonal communication. Prerequisites: Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or RDG 051 or NCS 052 or ESL 100 or RDG 120

COM 140 - Newswriting I.....(3:3:0)

An introductory writing course that provides students the opportunity to learn to write and to edit for different media including newspapers, radio and television, and public relations. Experience in developing larger stories and covering meetings. Prerequisites: Test score or ENG 051 and test score or RDG 051.

COM 142 - Radio Production.....(3:2:2)

An in-depth and hands-on radio production course that provides students the opportunity to learn how to write, produce, and edit for radio. Students employ campus radio equipment and digital editing technology. The course requires work in the campus radio station. Prerequisites: Test score or ENG 051 or ENG 121 or ENG 125 and Test score or RDG 051 or RDG 120

COM 150 - Intro to Electronic Media(3:3:0)

An introductory course to the radio and television broadcasting industries, including broadcasting history, FCC rules and regulations, and station operations. Requires work at campus radio facilities. Prerequisites: Test score or RDG 005 and Test score or ENG 005

COM 152 - Podcasting(3:3:0)

Designed to acquaint students with podcasting, the technical skills to produce audio and video internet-formatted broadcasts, and the ability to distribute and market the product to a diverse audience on the internet. Includes a study of copyright law and fair use. Prerequisite: COM 140

COM 160 - Intro to Public Relations.....(3:3:0)

Designed to introduce students to the history, theories, ethics and practice of public relations, including writing of public relations materials and collateral and the communications planning process. Prerequisites: Test score or ENG 121 or ENG 125

COM 189 - Approved Technical Elective(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

COM 210 - Advanced Video Production.....(3:2:3)

This course provides intermediate-level training in digital video production. Emphasis is placed on the production of professional-quality videos using professional non-linear editing software and employing visually aesthetic videography, editing, writing, and performance techniques. This hands-on course will focus on sharpening the student's skill in storytelling, producing, directing, editing, and capturing audio and video that is required for employment in the communication field. Students taking this course will gain hands-on experience that will prepare them for a variety of field productions including industry presentations, broadcast programs, and commercials. Prerequisites: COM 140 and COM 110.

COM 222 - Intercultural Communication.....(3:3:0)

An introduction to the knowledge and skills required for effective interpersonal communication with diverse populations. Communication models, barriers to effective communication and techniques for overcoming communication barriers will be discussed. Special emphasis is placed on communicating with members of various cultures in a helping environment. Prerequisites: (Test score or ENG 121 or ENG 125) and (Test score or RDG 120) and PSY 121 and (POL 111 or SOC 111).

COM 240 - Mass Media Law.....(3:3:0)

A course designed to acquaint students with technical responsibilities and libelous aspects of reporting as illustrated in historic court cases and to apply legal and ethical principles to current news stories. Includes a study of Delaware's Freedom of Information Act. Prerequisites: COM 140

COM 242 - Newswriting II.....(3:3:0)

This in-depth study of writing, which includes a study of the current techniques, problems and responsibilities of writing and the application of these principles to assigned stories. Students also write for the school publication. Prerequisites: (Test scores or ENG 102 or higher) and COM 140

COM 246 - Introduction to Film.....(4:3:2)

This class will review the technical structure of film and all its components - cinematography, sound, lighting, casting, storyboarding and scriptwriting, while also allowing students to share their own personal ovservations of film and its impact on their lives. Prerequisites: Test score or ENG 121 or ENG 125.

COM 250 - Photography.....(4:3:2)

A study of techniques for taking and for developing pictures for newspapers. Includes a thorough study on the operation of 35 mm camera. Prerequisites: Test score or RDG 005 and Test score or ENG 005

COM 251 - Layout and Design.....(3:3:0)

A course designed to introduce layout and design ideas employed by print media. Includes such areas as typography; sports, front, and inside pages; special sections; and graphics. Prerequisites: COM 140

COM 252 - Advanced Photography(4:3:2)

This course is an extension of the skills and techniques learned in COM 250. It is designed to help students expand their photographic skills as they apply to communications. It features group evaluations and close interactions with the instructor. The course will focus on students' growth through photographic projects based on their individual goals and abilities. Emphasis will be placed on llinking photography to other forms of communication. Prerequisite: COM 250

COM 289 - Approved Technical Elective(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

COM 293 - Internship with Seminar.....(5:1:12)

A supervised internship designed to provide a variety of practical onthe-job experiences in specific areas of the communications field. The internship and seminar will provide an opportunity to exchange ideas and discuss relevant issues in the media. Prerequisites: COM 242

CPO 100 - Intro to Chem Proc Oper Tech.....(3:3:0)

This course introduces the student to process operations on chemical plants. Topics include: process technician duties, responsibilities, and expectations; plant organizations; and plant process and utility

systems. In addition, the course exposes the student to an overview of the Chemical Process Operator Technology program, including the physical and mental requirements of the process technician career. Field trips to nearby chemical plants are also included. Prerequisites: None

CPO 106 - Statistical Procs Cntrl Ovrvw.....(1:1:0)

This course provides a brief overview of basic statistics, including variation, and explains how to transform raw data into control charts for variables or attributes and determine in-control/out-of-control conditions. Basic problem solving tools (Pareto Analysis and Cause and Effect Diagrams) are presented. Prerequisites: Test score or Mat 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185.

CPO 125 - Safety, Health & Environment.....(3:3:0)

This course will provide the student with a basic understanding of safety, health and environment for chemical plant operations. Topics include properties of hazardous materials, safety and health, industrial hygiene practices, environmental protection regulations, and emergency planning and response. In addition, the student will learn the requirements for compliance with transportation regulations involving shipments of hazardous materials and wastes. Prerequisites: Test score or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 153 or MAT 181 or MAT 185.

CPO 135 - Chem Proc Tech-Equipment(3:2:2)

This course provides students with an understanding of the type of equipment used in the chemical process industry. Topics include piping, valves, pumps, compressors, heat exchangers, and other chemical process equipment. The course concludes with a discussion of preventative/ predictive maintenance. Prerequisites: Test score or MAT 012 or higher

CPO 151 - Chem Proc Tech I-Systems.....(4:3:2)

This course will provide the student with an introduction to chemical stoichiometry, fluid flow, heat transfer, plant utilities, and reactor concepts. In addition, the unit operations of distillation, fermentation, crystallization, filtration, and drying are discussed using a standardized format that emphasizes the operational knowledge and techniques important to chemical process technicians. In addition, renewable energy and biofuels technologies are highlighted. Prerequisites: CHM 110 and CIS 107 and MET 150

CPO 189 - Approved Technical Elective(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

CPO 240 - Quality.....(3:3:0)

This course provides an overview of the quality concepts used by the chemical process industry. Topics include quality philosophy, continuous improvement, operating consistency, plant economics, team skills, and statistical process control techniques. Prerequisites: (MAT 153 or MAT 181) and (CHM 110 or CHM 150).

CPO 252 - Chem Proc Tech II-Operations(4:3:2)

This course will provide an overview into the field of operations within the chemical process industry. Students will use existing knowledge of equipment, systems, and instrumentation to understand the operation of an entire unit. Topics include typical duties performed by an operator in commissioning, startup, normal operations, shutdown, turnarounds, and abnormal situations within

a generic operating unit. Laboratory exercises include the operation of five pilot plants. Prerequisites: CPO 151 and ELC 101.

CPO 253 - Process Troubleshooting(4:3:2)

This course will provide an overview of different troubleshooting techniques, procedures, and methods used to solve chemical process problems. Topics include application of data collection and analysis, cause/effect relationships, and reasoning. Laboratory instruction involves troubleshooting problems initiated by the instructor in operating pilot plants and computer simulators. Prerequisites: CPO 151 and ELC 101.

CPO 260 - Internship(4:1:8)

The course provides a work experience for advanced study in chemical process operator technology. Students who qualify for an internship must work a minimum of 128 hours in either a local industrial facility or an on-campus laboratory. The work experience is mentored and supervised by a workplace employee. Prerequisites: CPO 100 and CPO 125 and CPO 135 and CPO 151 and ELC 101 and (CPO 252 or concurrent)

CPO 289 - Approved Technical Elective(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

CRJ 101 - Intro to Criminal Justice(3:3:0)

The philosophy underlying the criminal justice system and the basic structures of the components of criminal justice: Police, courts and corrections. Prerequisites: None

CRJ 102 - Criminal Law....(3:3:0)

Principles of Criminal Law, the natural sources and types of criminal law, the classification and analysis of crimes and criminal acts in general, and the examination of selected criminal offenses. Prerequisite: Test score or RDG 051 and Test score or ENG 051

CRJ 104 - Drugs Society/Human Behavior.....(3:3:0)

This course examines the various phases of the problems created by narcotics and dangerous drugs. It also provides an analysis of dangerous drugs with special emphasis on societal efforts to control the sale and use of illegal drugs. Prerequisite: Test score or RDG 051 and Test score or ENG 051

CRJ 105 - Computer Appl in Crim./Justice....(3:3:1)

This course provides instructions in the operation of computer systems and software commonly used by criminal justice professionals. Prerequisites: Test Scores or (ENG 090 or ENG 091 or higher) and CRJ 101 and CRJ 102 and CIS 107

CRJ 111 - Intro To Security(3:3:0)

A review of the historical, philosophical and legal basis of security and the secure individual in modern society. This course also surveys the administrative, operational and physical aspects of the security field. Prerequisite: Test score or RDG 051 and Test score or ENG 051

CRJ 115 - Essntls of Intrvwng/Counsing.....(3:3:0)

A study and practice of interviewing and counseling techniques as used in social work, corrections, and community agencies. Prerequisites: Test score or RDG 051 or ESL 100 or NCS 052 or RDG 120 and Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125

CRJ 118 - Corrections in America(3:3:0)	criminal justice agencies. Along with intense field experience,
A general overview of the American Corrections system that includes the history and evolution of the system, current philosophies and practices, prisoners' rights and rehavilitation vs. punishment. Prerequisite: Test score or RDG 051 and Test score or ENG 051	the student must submit a daily log and a detailed term paper based upon field experience. Prerequisites: CRJ 101 and CRJ 115 and CRJ 110 and CRJ 104 and CRJ 118.
Fredequisite. Test score of NDG 031 and Test score of Liva 031	CRJ 236 - Practicum for Police(4:2:5)
CRJ 120 - Hnrs Issues in Law Enforcement (3:3:0) The course will examine and address the Criminal Justice Systems and criminal justice institutions among a number of political systems. Special emphasis will be placed on comparative crime rates, various stages of the criminal justice process and specific contemporary issues pertaining to various models of government. Prerequisites: CRJ 101	The final phasse of the Criminal Justice program for students desirous of a law enforcement career requires the completion of an experiential practicum. Focus will be on the development of physical agility and communication skills including: written testing and the oral interview process. Self-discipline and teamwork skills are enhanced. This may be considered as a preparatory course for the Police Acedemy. Prerequisites: (ENG 122 or ENG 130) and CRJ 101
CRJ 152 - Collct/Analysis Crme Scne Evid (3:3:0) Intense study of methods of collection, indentification, preservation, and presentation of crime scene evidence. Prerequisites: Test	and CRJ 102 and CRJ 104 and CRJ 110 and CRJ 118 and CRJ 223. CRJ 237 - Law Enforcement Practicum(13:12:4)
score or ENG 051 and Test score or RGD 051 and CRJ 101.	This course directs towards students seeking a career in law enforcement and encompasses major topics instructed at a
CRJ 189 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	Delaware police academy, in accordance with DE Council on Police Training (COPT) requirements. Key topics of instruction include traffic laws and collision investigation techniques, criminal law, constitutional law, terrorism, report writing, evidence collection, crime scene processing, crisis intervention techniques, and physical
CRJ 199 - Police Academy Advanced Credit (32:0:0)	training. Upon successful completion of the course, students
Comprehensive basic police training leading to certification as a Law Enforcement Officer for the State of Delaware. Students eligible for	may become eligible for advanced standing at a Delaware police
this course have been awarded a certificate of completion of basic	academy, if sponsored and hired by a qualifying Delaware police agency. Prerequisites: CRJ 101 and CRJ 102 and CRJ 104 and
police training by an accredited Delaware Police Training Academy with which DTCC has an articulation agreement. This course	CRJ 105 and CRJ 115 and CRJ 220 and ENG 121 and HDM 202
recognizes the students preparation for sworn service as a police	CD L 275 Criminal Justice Management (2.2.2)
officer and includes all aspects of basic law enforcement training	CRJ 275 - Criminal Justice Management (3:2:2) This course examines the application of management
to include laws of arrest, criminal code, court procedure, laws of evidence, the criminal justice information systems, traffic code and	concepts to cases simulating the social, technical and political
accident investigations, crime scene processing, interviewing and	aspects of utilizing resources to accomplish goals related to the management of criminal justice assests. Prerequisites:
interrogations, crisis intervention, narcotics and dangerous drugs, and current ethical issues in law enforcement. Prerequisite: None	MGT 212 and MGT 214 and MGT 219 and MGT 231.
and current ethical issues in law emolcement. Prefequisite, None	
CRJ 220 - Criminal Judiciary	CRJ 289 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
detailed process from bail to corrections. Prerequisites: Test	CD I 200 - Special Seminare (2.2.0)
score or RDG 051 or ESL 100 or RDG 120 and Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125	CRJ 299 - Special Seminars (3:3:0) Presentation, examination, and discussion of all aspects of selected
	current issues and topics in criminal justice including debate of
CRJ 222 - Constitutional Law(3:3:0)	selected topics and proposed solutions. Prerequisites: (Test score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or
The Constitution of the United States and the Bill of Rights are examined and interpreted with applications for the criminal justice	ENG 125) and (Test score or RDG 051 or NCS 052 or ENG 099 or
system. The course emphasis is on legal issues dealing primarily	ESL 100 or RDG 120) and CRJ 101 and CRJ 102 and CRJ 104 and CRJ 110 and CRJ 118 and ENG 122 or ENG 122 concurrently.
with the relevant amend- ments and assoicative cases law.	CAS 110 and CAS 116 and ENG 122 of ENG 122 concurrently.
Prerequisite: ENG 051 and RDG 051 and (CRJ 101 or HDM 101)	CSA 101 - Instructor CSA for Sem I (4:4:1)
CRJ 223 - Criminology(3:3:0)	This course provides an introduction to networking concepts and
A study into the nature and causes of crime. Basic principles	terminology. Topics covered include the OSI model, IP addressing, subnet masks, physical and logical LAN topologies, and the
dealing with methodology, contemporary theories, and the broad view points of criminal behavior and the justice system.	functions and specifications of various pieces of networking
Prerequisites: Test score or RDG 051 and Test score or ENG 051	equipment. Also discussed is the pedagogy involved in presenting this information to high school students. Enrollment limited to high
	school instructors in Cisco Local Academy. Prerequisites: None
CRJ 226 - Crisis Intervention	
be stressed in addition to standard individual and group	CSA 102 - Instructor CSA for Sem. II(2.5:2.5:1)
counseling techniques. Prerequisites: CRJ 115 and CRJ 225	This course will prepare the instructor to present the 2nd semester of the CISCO Networking Academy. This course provides
CD I 225 - Internehin	an introductory examination of routers. Topics include router
CRJ 235 - Internship (4:1:8) The final phase of the student's program where the student	components, setup, and simple router configuration, RIP protocol,
must complete a total of 128 hours of work within the various	1

CSA 103 - Instructor CSA for Sem. III	CSM 212 - Credit/Collections
CSA 189 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	CSM 289 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chair.
CSA 289 - Approved Technical Elective	CTS 101 - Fundmentals-Motor Fleet Safety(3:3:0) This course teaches safety fundamentals and essential regulatory requirements not directly related to driving. It addresses knowledge of federal and state regulations governing commercial drivers and motor carriers. Prerequisites: (Test score or RDG 051 or ESL 100 or NCS 052 or RDG 120) and (Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test score or MAT 005 or NCS 005 or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or
Students are required to create simple programs, explain them and demonstrate they meet requirements. Prerequisites: Test score or ENG 051 or ENG 099 or NCS 051 or ENG 100 or ENG 121 or ENG 125 and Test score or RDG 120 and Test score or MAT 075 or MAT 090 or MAT 140 or MAT 153 or MAT 181 or MAT 185.	MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185) CTS 102 - Vehicle Sys/Report Malfunction(2:2:0) This course familiarizes the student with tractor-trailer vehicle
CSC 164 - Computer Science II	systems and the proper procedures for handling and reporting vehicle malfunctions. Prerequisites: (Test scores or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120) and (Test scores or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test scores or MAT 005 or NCS 005 or MAT 012 or NCS 012 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 181).
inheritance, polymorphism and are fault tolerant. Prerequisite: CSC 114 CSC 214 - Computer Science III	CTS 103 - Tractor Trailer Operations
analysis, software engineering principles, software information assurance and professionalism. Prerequisite: CSC 164 CSC 264 - Applied Computer Capstone	CTS 104 - Road Driving Practices
This course provides practice in the design and programming of real- life applications utilizing skills and knowledge obtained from previous Computer Information System courses. Prerequisites: CSC 214	federal law. Co-requisites: CTS 101 and CTS 102 and CTS 103. CTS 105 - Range Driving Practices
CSM 101 - Intro to Customer Service	operate tractor trailer vehicles through a series of maneuvering exercises. Students will also develop shifting, backing, inspecting, and coupling/uncoupling skills. Registered students must participate in a random drug-testing program as mandated by federal law. Co-requisites: CTS 101 and CTS 102 and CTS 103.
CSM 189 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chair.	CTS 106 - Advanced Driving Operations
CSM 201 - Telecomms Skills	as emergency and evasive maneuvers. Co-requisites: CTS 103 CTS 107 - Advanced Driving Practices(1:0:3) The student learns to apply safe operating principles, perceive hazards,

score or RDG 051 or ESL 100 or RDG 120 and Test score or

ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125

distance-vector and link-state routing algorithms, convergence,

and routing problems and solutions. Prerequisites: CSA 101

and operate at night in this course. Skill development and learning occurs through behind-the-wheel training. Registered students must participate in a random drug-testing program as mandated by law. Co-requisites: CTS 103 and CTS 104 and CTS 105 and CTS 106.	CUL 241 - Planning Food Service Sys
CTS 108 - Professional Driver Developmnt	CUL 245 - Applied Hospitality
or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120).	CUL 261 - Baking (4:3:4)
CTS 189 - Approved Technical Elective	This is a production-oriented course designed to introduce and expand on the basic fundamentals of baking for potential cooks, chefs and managers. The student will learn and apply a set of highly interrelated techniques and baking skills. All baked products, breads, cookies and cakes will be used in the campus restaurant or cafeteria. Prerequisites: CUL 271
Students may complete technical electives for which they have	oumpus restaurant or ourotona. Proroquisites. OOL 27 r
written prior approval of the department chairperson.	CUL 262 - Pastry (4:3:4) This is a production-oriented course based on the baking
CUL 112 - Cake Decorating	principles learned, in Baking CUL 261. The student will apply these basic principles to produce various desserts and decorative works. Prerequisites: CUL 261
or RDG 051 or NCS 052 or ESL 100 or RDG 120 and Test score or MAT 012 or NCS 012 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 141 or MAT 150 or MAT 153 or MAT 181	CUL 285 - International Cuisine
CUL 119 - Food Safety and Sanitation(2:2:0) This course covers practical sanitary techniques and safety	styles of these various areas. Prerequisites: CUL 171
in food preparation. A Hazard Analysis of Critical Control Points (HACCP) is used to develop a self-inspection system. Prerequisites: (Test score or ENG 090 or ENG 091 or concurrent or higher) and (Test scores or MAT 012 or higher)	CUL 289 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
	CUL 291 - Food Prep II(4:3:4)
CUL 121 - Food Prep I	This course builds on the fundamentals of CUL 121. Staffing requirements are introduced. Students develop menus with prices for specific market segments. Individual work stations are studied and assigned including an introduction to basic pastry, baking, and Garde Manger. Prerequisites: CUL 285
score or MAT 012 or NCS 012 or MAT 015 or MAT 016 or MAT 120 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185	CVS 109 - Intro to Clin Internship II
CUL 156 - Practicum (3:1:5) This supervised work experience is designed to give the culinarian hands-on training in the field at various	practical experiences in clinical setting for application of previously learned principles. Prerequisites: DMS 108
stations in the kitchen. Prerequisites: CUL 121	CVS 201 - Clinical Internship I
CUL 171 - Garde Manger	of learned technical skills. Includes demonstrations in the use and care of ultrasound equipment and initiates participation, under direct supervision, in actual sonographic procedures. Prerequisites: BIO 130 and ECH 112 and VAS 112.
CUL 189 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson	CVS 202 - Clinical Internship II

written prior approval of the department chairperson.

safety of the patient while maintaining quality performance in diagnostic medical sonographic procedures. Echocardiography review is also implemented to strengthen knowledge base. Prerequisites: CVS 201

CVS 203 - Clinical Internship III	DAC 244 - Dir Practice II-Drug/Alcohol
CVS 210 - Scanning Applications	DAC 289 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
and reviewed. Emphasis is on vascular studies of extremity arteries, extremity veins and cerebrovasculature. A group presentation of sonographic case is also included. Prerequisites: ECH 112 and VAS 112	DEN 901 - IBEW Apprenticeship Program (47:0:0) Course credit awarded for successful completion of the electrical workers apprenticeship program through the IBEW Local Union 313. A letter verifying journeyman status from the Joint
CWE 189 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	Apprenticeship and Training Committee IBEW is required. DEN 902 - Carpenters Apprenticeship Prog (47:0:0)
CWE 201 - Co-Op Education I-1st level	Course credit awarded for successful completion of the Carpenters Apprenticeship Program through the Carpenters Union Local #626. A letter verifying journeyman status from the Carpenters' Union is required. Prerequisites: None
CWE 202 - Co-Op Education I - 2nd Level	DHY 101 - Clinical Dental Hygiene I
CWE 203 - Co-Op	DHY 102 - Clinical Dental Hygiene II
CWE 289 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	DHY 103 - Clinical Dental Hygiene III
This introductory course examines the physiological and sociological impact of drug and alcohol abuse. Emphasis placed on the disease concept of addiction and it's progressive nature. Prerequisites: HMS 121	DHY 111 - Dental Hygiene Fundamtis I
DAC 189 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	DHY 112 - Dental Hygiene Fundmtls II(3:2:3) A continuation of DHY 111 Dental Hygiene Fundamentals I to develop
DAC 225 - Drug&Alcohol Counseling II	new skills appropriate to dental hygiene treatment. The course focuses upon various patient populations, the characteristics, common treatment needs, and patient management. Additional areas include ethical and legal issues of dental hygiene care. Prerequisites: DHY 111
Prerequisites: ENG 122 and HMS 122 and HMS 123 and DAC 141 DAC 230 - Assessmnt/Trtmnt/D&A Counsing(3:3:0) This course is an overview of various types of addictions and the resulting characteristics and behavior patterns of the addicted individual. Emphasis on etiology assessment	DHY 121 - Oral Histology/Embryology
and treatment. Prerequisites: DAC 141 and ENG 121 DAC 240 - Families & Addiction	DHY 132 - Dental Anatomy

DHY 133 - Head and Neck Anatomy	DHY 215 - Practice Management
DHY 141 - Oral Radiography(3:2:2) The course lectures will provide an introduction to the principles, theories, and techniques of dental oral radiography. The laboratory exercises deal with the exposing, processing, mounting and evaluation of dental radiographs for the development of clinical radiographic skills. The paralleling technique will be stressed. Prerequisites: DHY 133	DHY 271 - Pharmacology for Dental Hygien (1.5:1.5:0) This course is designed to supply students with a basic understanding of pharmacologic principles and therapeutic applications to health care. Special emphasis is placed upon therapeutic agents used in the dental practice as well as other agents which may impact the practice of dental hygiene. Prerequisites: DHY 112
DHY 151 - Periodontology/Cariology	DHY 281 - Operative/Specialty Dentistry(1:1:0.5) A lecture and laboratory series in the concepts of operative dentistry including chemical and physical properties of materials. This course also includes information on procedures in specialty areas of the dental practice. Prerequisites: DHY 213
DHY 161 - Oral Pathology	DHY 289 - Approved Technical Elective
DHY 189 - Approved Technical Elective	This course focuses on health care problems and systems within the community setting. Content includes addressing health needs through assessment, planning, and evaluation of dental health programs. Prerequisites: DHY 112
DHY 204 - Clinical Dental Hygiene IV	DHY 291 - Communty Dental Health Fld Wrk
DHY 205 - Clinical Dental Hygiene V(4:1:16) A final course in clinical techniques to develop all aspects previously learned in total patient care. The seminar aspect will permit time for problem solving and sharing clinical experiences. Prerequisites: DHY 204	DMS 100 - Intro to Ultrasonography
DHY 212 - The Compromised Dental Patient (1.5:1.5:1) A seminar and clinic lab focusing on the needs and treatment of the mentally, physically, and medically compromised patient. The course will include a variety of lectures, discussions, films, laboratory exercises, field trips, and clinical sessions. Pre-requisite: DHY 271	DMS 104 - Intro to Clinical Internship I
DHY 213 - Adv Clinical Techniques	DMS 106 - Intro-Patient Care/Sonography
DHY 214 - Nutrition for Dental Care	DMS 107 - Essentials in Pt. Care/Sono
	DMS 108 - Intro to Clin Internship I(1:0:4) Introductory clinical course provides orientation

under direct supervision, in actual sonographic procedures.
Prerequisites: DMS 114 and DMS 122 and VAS 112.
DMS 202 - Clinical Internship II
medical ultrasound equipment. Prerequisites: DMS 201
DMS 203 - Clinical Internship III
DMS 210 - Scanning Applications
DMS 211 - Abdominal Sonography III
DMS 214 - Essentials in Vascular U/S(2:2:1)
This course is designed as an introduction to the fundamentals
of vascular sonography. Instruction includes hemodynamics, cerebrovascular, peripheral arterial and venous anatomy,
physiology, pathophysiology, and ultrasound testing methods. Prerequisites: DMS 215 and DMS 231.
DMS 215 - OB/GYN Sonography II(2:2:1)
A study of the reproductive organs of the female in the gavid state. Instruction will include the role of diagnostic medical sonography in the determination of fetal age and growth, fetal well-being, detection
of anomalies and obstetrical management. Prerequisite: DMS 112
DMS 230 - Special Topics(2:2:0)
This course is designed to integrate knowledge from previous courses with current studies to produce thorough, sequential information in
areas of special topics pertaining to Diagnostic Medical Sonography. Case studies will provide a means to discuss and review pathology,
clinical manifestation of symptoms, differential diagnosis, sonographic patterns and protocols in scanning. In addition, review of ARDMS board examination will be implemented Prerequisites: DMS 202 or CVS 202.
DMS 231 - Abd/Small Parts Sono. II(2:2:1)
A continuation of DMS 131 appropriate to the study of diagnostic medical sonography covering cross-sectional anatomy, physiology and pathophysiology of the abdomen and superficial structures. Introductory clinical experiences integrate previously learned principles. Prerequisite: DMS 131
DMS 235 - Pediatric Sonography(1:1:0)
Designed to provide basic information on some of the more common applications of diagnostic medical sonography in the neonate, infant and young pediatric patient. Includes instrumentation and scanning

techniques of the brain, abdomen, gastrointestinal and genitourinary tracts and infant hip. Prequisites: DMS 215 and DMS 231.	ECE 103 - Childhood Nutrition
DMS 240 - Clinical Sonography I(3:0:16)	and development during early childhood. Prerequisites: None
Provides an orientation to various practical aspects of diagnostic medical sonography by introducing the student to the practical clinical environment. Includes demonstrations in the use and care of ultrasound equipment and allows opportunity for participation, under direct supervision, in actual sonographic procedures. Prerequisites: DMS 112 and DMS 131.	ECE 104 - History/Professionalism in ECE(1:1:0) This course offers a study of historical and contemporary theories, professionalism and issues related to the early childhood education field as well as an understanding of the impact of these items on children's development. Prerequisites: None
DMS 241 - Clinical Sonography II	ECE 105 - Programs/Services Birth-Age 8(1:1:0) This course is designed to assist students in their understanding of basic concepts relevant to child development. Emphasis will be placed upon physical, cognitive, emotional, and social development from age four through adolescence. The interrelationship of these factors will also be discussed and evaluated. Prerequisites: None
DMS 242 - Clinical Sonography III	ECE 106 - Mtg Diverse Needs-ECE Learners(1:1:0) This course offers a study of diverse educational needs of children including examination of special education, social, religious, economic, political, and multi-cultural factors which influence the development of the child. Prerequisites: None
DMS 243 - Clinical Sonography IV	ECE 107 - Child Development: Pre-Birth(1:1:0) This course is designed to assist students in their understanding of basic concepts relevant to child development. Emphasis will be placed upon development prior to birth. Additional emphasis will be placed
DMS 250 - Selected Topics in U/S	on assessment and research on development. Prerequisites: None ECE 108 - Child Devipmnt:Birth thru Age 3(1:1:0) This coursse is designed to assist students in their understanding of basic concepts relevant to child development. Emphasis will be placed upon physical, cognitive, emotional, and social development from birth through age three. The interelationship of these factors will also be discussed and evaluated. Prerequisites: None
DMS 289 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	ECE 109 - Chid Dvipmnt:Age 4-Adolescence(1:1:0) This course is designed to assist students in their understanding of basic concepts relevant to child development. Emphasis will be
EBZ 220 - Fundamentals of E-Commerce (3:3:0) This course explores electronic commerce concepts, models, and strategies necessary to effectively build and manage E-Commerce applications. Students will learn how to make better decisions and	placed upon physical, cognitive, emotional, and social development from age four through adolescence. The interrelationship of these factors will also be discussed and evaluated. Prerequisites: None
determine information requirements for development of E-Commerce in both traditional and web-based businesses. Topics include risk management, security and privacy issues, EDI, E-Commerce payment systems, accounting in E-Commerce systems, regulatory and legal	ECE 111 - Childhd Nutrition/Safety(3:3:0) Nutrition, health, and safety needs for normal growth and development during early childhood are studied. Prerequisites: none
EBZ 221 - Strategic Aspects: E-Business	ECE 120 - Comtemp Issues in Erly Childhd
ECE 101 - Childhood Health	ECE 121 - Infant & Toddler Methods & Lab
This course is a study of childhood safety neeeds for normal growth and development during early childhood. Prerequisites: None	Emphasis is also provided on develop- mentally appropriate activities for infants and toddlers. Activity areas include social/emotional

development, cognitive and language development, and sensory motor development. Prerequisites: (Test Score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test Score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120)

ECE 123 - Early Childhd Methods I & Lab.....(5:4:4)

This course is an introduction to the language arts, literacy, science, social studies, and math curriculum suitable for use with children in the early childhood and primary grade settings. The course is designed to help the student understand the importance of these various curriculum areas in the child's overall development and the materials/activities included in the curriculum. It also includes applied practice as students will have "hands-on" experience and will develop and evaluate plans for implementation. Prerequisites: PSY 125 and ECE 121

ECE 125 - Early Childhd Methods II & Lab.....(5:4:4)

This course is designed to acquaint students with creative and motor skill areas of the curriculum. Students will learn the importance of these various curriculum areas in the child's overall development and the materials/activities included in the curriculum. It also includes applied practice as students will have "hands-on" experience and will develop plans for implementing programs. Prerequisites: PSY 125 and ECE 121

ECE 127 - Childhood Classroom Mgt(3:3:0)

This course focuses on structuring the early childhood classroom and school day. Students will explore various approaches to classroom management. Topics such as goal setting, establishing objectives, record keeping, and appropriate guidance techniques will also be covered. Prerequisites: ECE 120 and PSY 125

ECE 128 - CDA Seminar.....(1:1:0)

This course will prepare students for Direct Assessment for a Child Development Associate (CDA) National Credential. Students will complete a Professional Resource file that can be submitted to the CDA for review. Prerequisites: none

ECE 130 - Early Childhood Leadership I.....(3:3:0)

In this course, students examine the leadership role and are introduced to a model of facilitative leadership as a way to empower staff and support shared decision making. Students are introduced to a comprehensive model for hiring and supervising staff, and for promoting ongoing professional development. Students develop and practice the skills needed to nurture a positive work climate that promotes peak performance. Prerequisites: None

ECE 131 - Early Childhood Leadership II.....(3:3:0)

In this course, students learn components of effective management including systems and the importance of systems thinking; stakeholder analysis and management; the strategic planning process; how policies, procedures, and systems are interconnected; and tools for taking charge of program operations. Students learn how to manage a fiscally responsible early childhood business and are introduced to effective budgeting and accounting. Students develop skills needed to promote a positive public image and to create environments that welcome and support the learning of children and adults, as well as promote their health and safety. Prerequisite: ECE 130

ECE 132 - Early Childhood Leadership III(3:3:0)

In this course, students learn to support children's development and learning by understanding the interactive environment, the advantages of different groupings and staffing patterns, and continuity of care. Students learn how to implement curriculum and the importance of observation and child assessment in achieving

program goals. Students explore the director's role in creating family partnerships, promoting an appreciation of diversity, and nurturing open communication. Students learn the importance of program evaluation and continuous quality improvement - the leadership practice of assessing needs, defining desired outcomes, developing an action plan, and evaluating effectiveness. Prerequisite: ECE 131

ECE 189 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

ECE 211 - Parnt/Teachr&Community Interac(3:3:0)

This course stresses the importance of the parent-teacher relationship and explores techniques of increasing parental involvement in the school program. Students will participate in arranging a parent education program and prepare as well as participate in a parent-teacher conference. Prerequisites: PSY 121 and PSY 125

ECE 220 - Program Administration(3:3:0)

This course is designed to provide students with an opportunity to explore program evaluation and the techniques for program administration. These techniques ensure alignment of programs with community needs. Prerequisites: PSY 125 and (ECE 123 or ECE 125) and ECE 127 and ECE 226.

ECE 221 - Operational Management.....(3:3:0)

This course is designed to provide students with the opportunity to understand operational systems in a childcare setting. Students will gain skills for record keeping plans, system implementation of facilities and equipment maintenance, and implementing health, safety, and nutrition policies. Prerequisites: PSY 125 and (ECE 123 or ECE 125) and ECE 127 and ECE 226.

ECE 222 - Program Planning/Evaluation.....(3:3:0)

This course is designed to provide students with information on the various aspects involved in program planning and the tools used for evaluating the program. Students will gain experience in developing their own programs and in using various evaluation processes. Prerequisites: ECE 127 and ENG 122

ECE 223 - Personnel Management.....(3:3:0)

This course is designed to provide students with information on personnel aspects in the childcare setting. Students will gain insight in areas of licensing requirements, legal issues, and staff development needs. Prerequisites: PSY 125 and (ECE 123 or ECE 125) and ECE 127 and ECE 226.

ECE 224 - Fiscal Management.....(3:3:0)

This course is designed to provide students with information on financial management in childcare settings. Students will gain experience in areas of legal issues, financial planning and application. Prerequisites: PSY 125 and (ECE 123 or ECE 125) and ECE 127 and ECE 226.

ECE 226 - Assessment of Young Children.....(3:3:0)

This course provides an overview of child assessment with an emphasis on screening and assessment instruments and methods. Ten hours of observation is a course requirement. Prerequisites: (Test Score or ENG 121 or ENG 125) and (PSY 125 or PSY 126) and ECE 120

ECE 233 - Exceptional Child.....(3:3:0)

A study of the legal, psychological, medical, and sociological aspects of exceptionality with major emphasis on appropriate methods and practices in Early Childhood programs. Students will learn

to develop materials and to work in partnership with parents and families of children with special needs. Prerequisites: PSY 121 $\,$

ECE 244 - Fld Work - Teaching Practicum.....(6:1:15)

The teaching practicum provides practical experience in an approved classroom environment under the supervision of a professional teacher. Prerequisites: ECE 111 and ECE 123 and ECE 125 and ECE 127 and (ECE 222 or ECE 222 concurrent) and ECE 226 and ECE 233 and EDC 120 and (EDC 220 or EDC 220 concurrent)

ECE 289 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

ECH 111 - Echocardiography Techniques I.....(3:3:1.5)

This course introduces the student to the fundamental skills and principles needed to perform echocardiography. Technologist and patient safety will be addressed. The course covers the standard two dimensional cardiac views and M-mode evaluations. Emphasis is placed on cardiac anatomy, cardiovascular physiology, cardiac disease and its effect on the heart, and the study of basic cardiovascular pharmacology. Prerequisites: BIO 120 and DMS 106.

ECH 112 - Echocardiography Techniques II(3:3:1.5)

This course is a continued study of ECH 111 - Echocardiography Techniques I with an emphasis on pericardial and myocardial diseases, cardiac neoplasm and masses, cardiac trauma, and disease of the aorta and great vessels. Doppler and color flow echocardiography and the study of of prosthetic valves will also be included. Introductory clinical experiences integrate apreviously learned principles. Prerequisites: ECH 111

ECH 189 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

ECH 213 - Echocardiography Technique III(3:3:1)

This course is a continued study of ECH 112 Echocardiography Techniques II. Understanding and proficiency in the performance of Doppler echocardiography will be emphasized. The study of embryology and congenital heart diseases will also be included. Prerequisites: ECH 112

ECH 289 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

ECO 111 - Macroeconomics.....(3:3:0)

This course is designed to instruct students in the basic principles of supply and demand as they impact on the American economy. It places special emphasizes on those national policy decisions that are utilized to solve the problems of inflation and unemployment, such as Keynesianism, monetarism, and supply side. Also, the student explores other theoretical solutions and examines the effects of these policy decisions on the individual consumer. Prerequisite: Test score or ENG 051 and Test score or RDG 051 and Test score or MAT 012

ECO 122 - Microeconomics.....(3:3:0)

This course is designed to instruct students in the basic principles of supply and demand as they affect producer pricing decisions. It is specifically concerned with the relationship that exists between business and consumers and seeks to explain the functional differences in production and consumption. Prerequisites: Test score

or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or RDG 051 or NCS 052 or ESL 100b or RDG 120 and Test score or MAT 012 or NCS 012 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 141 or MAT 150 or MAT 153 or MAT 181

ECO 189 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chair.

ECO 289 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chair.

EDC 100 - Professional Prep: Praxis I.....(1:1:0)

The student will review mathematics, reading and writing concepts in preparation for the Praxis I test required for teacher certification. Test taking strategies and stress reduction techniques will also be studied. Prerequisites: Test score or RDG 120 and Test score or MAT 015 or MAT 016 or NCW 045 or MAT 075 or MAT 141 or MAT 153 or MAT 181 or MAT 182 or MAT 185 or MAT 251 or MAT 261 or MAT 281

EDC 101 - Intro to Paraeducator Issues(3:3:0)

The roles and responsibilities of the paraeducator will be studied in this introductory course. Professional, ethical and legal aspects of becoming a paraeducator will be examined. The ability to communicate effectively with students, parents and school personnel will be emphasized. Standards based education, diversity issues and career opportunities in education will be studied. Prerequisites: Test score or RDG 051 and Test score or ENG 051

EDC 115 - Nature of Science.....(1:1:0)

This course introduces students to the nature of science by presenting four major components - scientific knowledge, scientific processes, the nature of the knowledge, and the relationship between science and society. Students will analyze significant historic investigations and discoveries. The students will use the four components to study how the historic examples demonstrate the nature of science and the connection between science and society. Prerequisites: (Test score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120) and (Test score or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181).

EDC 120 - Foundations of Literacy(3:3:0)

This course teaches effective strategies to develop phonological awareness, fluency instruction, vocabulary instruction and text comprehension as well as techniques to decode and understand reading materials. Successful strategies for teaching writing skills will also be a major focus of this course. Recent trends and theories in reading and writing will be explored. Prerequisites: (Test score or RDG 120) and (Test score or ENG 121 or ENG 125).

EDC 150 - Issues in Elementary Education(3:3:0)

This course provides students with an overview of teaching as a profession. The philosophical, historical and social foundations of teaching and learning are explored. National and state curriculum frameworks are examined. Field experience is a course requirement. Prerequisites: Test Score or ESL 100 or RDG 120

EDC 180 - Community Culture Seminar.....(1:1:0)

Students will explore diverse cultures within the local and regional communities and will complete a multicultural learning project. Prerequisites: ((Test Score or ENG 051 or NCS 051 or ESL 100 or

ENG 121 or ENG 125) and (Test Score or RDG 051 or NCS 052 or ESL 100 or RDG 120)) or (ESL 042 and ESL 044 and ESL 048).

EDC 211 - Classroom Management.....(3:3:0)

The student will learn about the behavior management theories with an emphasis on the child centered approach known as Positive Behavior Supports (PBS). Proactive strategies for a positive learning environment will be emphasized. The strategies will highlight behavior management, diversity and multicultural factors, mainstreaming and classroom organization. Prerequisites: PSY 125 or PSY 126

EDC 220 - Parent/Family/School Interact.....(3:3:0)

Using an interdisciplinary approach, this course focuses on the dynamic relationship of the home, the school and the community as each contributes to the development and education of children. The course examines principles, techniques, and resources relevant to working with parents as individuals, couples, and both traditional and non-traditional families and with the community and community agencies. This course includes field experience. Prerequisites: PSY 121 and (PSY 125 or PSY 126) or (PSY 125 concurrently or PSY 126 concurrently).

EDC 230 - Children's Literature(3:3:0)

This course provides students with an overview of developmentally appropriate literature focusing on cultural perspectives and universal themes found in fiction and information text. Through class and individual projects, students explore children's literature as well as create and evaluate integrated lessons. Ten hours of field experience and documentation of PRAXIS I registration and score is required. Prerequisites: EDC 120 and (ENG 122 or ENG 130)

EDC 250 - Internship & Seminar....(4:1:9)

Internships in local school settings will provide practical experience for the prospective paraeducator. The class will meet on a regular basis to evaluate activities, share experiences and assess readiness to direct additional activities under the supervision of a teacher. Prerequisite: EDC 212 Co-requisite: EDC 211

EDC 260 - Educational Psychology.....(3:3:1)

This course will focus on the developmental concerns of adolescents and how these issues may influence the adolescent learner in formal and informal learning situations. Academic motivation, interpersonal relationships, learning styles, and teacher expectations will be studied. A field placement in a secondary school setting will be an essential course component. Prerequisites: PSY 121 or PSY 126

EDD 110 - Intro to Engineering Tech(3:2:2)

This course introduces design problems and study activities common to engineering technologies. Conceptualization and communication skills are developed using mathematics, physical science, and engineering graphics. Measurement, use of tools, computer-aided design (CAD) technology, and computer literacy are explored. Prerequisites: ((((Test Scores or RDG 005 or RDG 051 or NCS 052 or NCW 091 or ESL 032 or RDG 120) and (Test Scores or ENG 005 or ENG 051 or NCS 051 or NCW 090 or ESL 034 or ENG 121 or ENG 125)) or Test Score or ENG 006 or ENG 007 or ENG 090 or ENG 091 or ENG 099 or ENG 101 or ENG 102 or ENG 122 or ESL 100) and (Test Scores or MAT 005 or NCS 005 or MAT 012 or NCS 012 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 181).

EDD 121 - Intro to Engineering Graphics.....(2:1:2)

Introduces beginning drafting students to the basics of technical drawing. Emphasis is on the use of equipment, lettering, line quality, orthographic projection, types of technical drawings, and

dimensioning methods. Freehand sketching and Basic Blueprint Reading will be discussed. Prerequisite: Test score or ENG 051 and test score or MAT 012 and test score or RDG 051.

EDD 131 - Engineering Graphics/CAD.....(3:2:4)

Development of basic drafting skills using traditional drafting equipment with special emphasis on computer- aided equipment. The focus will include two-dimensional drawings and the development of orthographic projections with a variety of design problems and study activities presented to help the student conceptualize and communicate graphically. Pre-requisites: (Test Score or MAT 012 or NCS 012 or MAT 015 or MAT 090 or MAT 119 or MAT 120 or MAT 130 or MAT 140 or MAT 141 or MAT 153 or MAT 181) and (Test Score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test Scores or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120).

EDD 141 - Engr Drafting & Design I.....(4:2:5)

This is an introductory course to engineering drafting. It includes a study of geometric construction, proper use of drafting equipment, freehand sketching, orthographic, isometric, oblique and auxiliary views. Emphasis is placed on basic drafting practices as recommended by the American National Standard Institute (ANSI). Prerequisite: Test score or ENG 051 and test score or MAT 012 and test score or RDG 051.

EDD 142 - Engr Drafting & Design II(3:2:2)

This course focuses on advanced drafting practices and includes the study of primary and secondary auxiliary views and their proper dimensioning techniques, advanced detail dimensioning practices, tolerances and fits, surface texture and the many types of section views, including exploded views with emphasis on finish, tolerance and fits. Screw threads and threaded fasteners are also discussed. Prerequisite: EDD 141

EDD 161 - Intro - CAD using MicroStation.....(3:2:2)

This is an introductory CAD course and is designed to teach the student how to use MicroStation software to create quality 2D designs. You will learn to use MicroStation's tools and features to create designs, manipulate and modify elements, assemble project data and create output. Pre-requisite: AET 123 or AET 125 or CET 125 or EDD 141

EDD 171 - Intro to CAD Using AutoCAD(3:2:2)

This course introduces computer aided design (CAD) and how to use AutoCAD software to create quality two dimensional (2D) designs. AutoCAD's tools and features to create designs, manipulate and modify elements, assemble project data, and create printed output are emphasized. Prerequisites: (Aet 123 or concurrent) or (CET 125 or concurrent) or (EDD 141 or concurrent) or (EDT 151 or concurrent)

EDD 189 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

EDD 233 - Engr Drafting and Design III(3:2:2)

An advanced oriented drafting course reinforcing engineering drawing and its applications. This course includes the theories of various types of section drawings, detail and assembly drawings, welding drawings and development drawings. Surface texture, threaded and miscellaneous fasteners will also be discussed in depth. Prerequisites: EDD 142 and EDD 171.

EDD 234 - Eng. Drafting - Piping.....(3:2:2)

An introductory course emphasizing industrial piping drafting with a study of pipe fittings and valves, pumps, tanks, vessels, and

equipment along with symbols, specifications, and their applications to a piping process system. This includes flow diagrams and P&ID's (Piping and Instrumentation Diagrams), plans and elevations, piping isometric and spool drawings. Pre-requisites: EDD 142 and EDD 271
EDD 245 - Engr Draftng/Design(HVAC/ELEC)
EDD 246 - Eng. Drafting - Structural
EDD 249 - Engineering Design Process(3:2:2) An advanced design course that familiarizes the student with the various stages of the engineering process utilizing parametric modeling. Prerequisites: EDD 142 and EDD 272.
EDD 261 - Adv Cad Using Microstation
EDD 271 - Advanced CAD
EDD 272 - Solid Modeling
EDD 273 - Advanced Solid Modeling
EDD 289 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
EDT 108 - Technical Sketching(2:1:2)

Introduction to Graphic Language by sketching two- or three-

illustrations will be emphasized. Emphasis on theory and technical

dimensional drawings. Engineering and publication types of

detail rather than artistic aptitude. Prerequisites: none

Interpretation of detail working prints involving multiview, sectional, and auxiliary views, to more complex assembly drawings. Geometric tolerancing will be studied. Prerequisite: Test Score or RDG 051 and Test Score or ENG 051 and Test Score or MAT 012
EDT 141 - Basic Plumbing
EDT 144 - Preventive Maintenance
EDT 152 - Engineering Design II
EDT 189 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
EDT 252 - Engineering Design III
EDT 273 - Engineering Design Project
EDT 275 - Research Problems-Engineering(3:2:2) Investigates a research problem in the engineering area selected by the student with approval of the instructor. A report and model or prototype are required. All work for development and execution problems are done by industrial standards. Prerequisites: EDT 252

EDT 289 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have

written prior approval of the department chairperson.

EDT 128 - Machine Trades Blueprnt Rding.....(3:3:0)

ELC 101 - Intro to Instrumentation	voltage, resistance and power in DC and AC circuits. Prerequisite: None Co-requisite: Mat 181
plant operations. Prerequisites: (((Test Scores or RDG 051 or higher and (Test Score or ENG 051 or higher)) or Test Score or ENG 090 or concurrent or higher) and Test Score or MAT 015 or higher).	ELC 125 - Electrical Circuits I
ELC 110 - Technical Computer Application	circuit breakers, resistance, capacitance, inductance, series, parallel, and series-parallel circuits, transformers, alternating and direct power sources, and magnetism. Prerequisites: (Test Scores or ENG 051 or ENG 051 concurrent or ENG 099 or NCS 051 or ENG 121 or ENG 125) and (Test Scores or RDG 051 or RDG 051 concurrent or NCS 052 or ENG 099 or ESL 100 or RDG 120) and (Test Scores or MAT 140 or MAT 140 concurrent or MAT 153 or MAT 181 or MAT 185)
ELC 118 - Intro to Electricity	ELC 126 - Analog Electronics I
ELC 119 - DC and AC Theory	ELC 127 - Digital Electronics
ELC 120 - Intro to Circuit Analysis	operations, adders, comparators, encoders/decoders, multiplexers/demultiplexers, parity circuits, flip-flops, and synchronous and asynchronous counters. Prerequisite: ELC 125
capacitance, magnetism and inductance, capacitive and inductive transients. Prerequisites: Test score or MAT 015 or MAT 016 or NCW 045 or MAT 075 or MAT 181 or MAT 182 or MAT 185 or MAT 281 and Test score or RDG 051 or ESL 100 or RDG 120 and Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125	A study of digital concepts including logic levels and pulse waveforms, number systems and codes, logic gates, Boolean algebra, DeMorgan's Theorem, systematic reduction of logical expressions, universal property of NAND and NOR gates, pulsed operations, adders, comparators, encoders/decoders, multiplexers/
ELC 121 - Network Analysis	ELC 131 - Digital Electronics II
ELC 122 - Electronic Devices/Circuits I	ELC 132 - Microcomputer Service & Repair
ELC 123 - Electronic Devices/Circuits II	ELC 133 - Microprocessor Fundamentals
ELC 124 - DC & AC Circuit Analysis(5:4:2) An in-depth introduction to the analysis of current,	ELC 189 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.

ELC 205 - Computer Networks and System I(4:3:2)	ELC 226 - Analog Electronics II
This course introduces the fundamentals of data communications	This course covers the fundamentals of analog e
and computer network principles and applications. Students install,	with emphasis toward application, circuit/compo
configure, and troubleshoot basic network hardware and peripherals,	expected input and output signals, and measurer
emphasizing hands-on practical experiences. Specific topics	include field effect transistors, frequency respons
include network topologies, protocols, cabling systems, wireless	operational amplifiers, and industrial circuits incl
transmission and security. Prerequisites: CEN 150 and ELC 125	transistors (UJTs), silicon controlled rectifiers (S sensors, and transducers. Prerequisites: ELC 12
FLO COC Community Nationally Constraint II (C.C.)	or MAT 182 concurrent) and (ELC 225 or ELC 22
ELC 206 - Computer Networks & Systems II(3:2:3)	of MAT 102 concurrent) and (LLO 223 of LLO 22
This course continues to cover data communications and	ELC 227 Microcontroller Fundament
computer network principles and applications. Students	ELC 227 - Microcontroller Fundament
configure, troubleshoot, and secure networks and related peripherals. Prerequisites: ELC 205 and CEN 180	This course presents the concepts and hands-or necessary to understand the architecture and so
benipherals. Prefequisites. LLG 200 and GLN 100	microcontrollers. Structured laboratory exercises
ELC 215 Drogrammoble Legie Centrellere (4.2.0)	and high level programming, interrupt managem
ELC 215 - Programmable Logic Controllers(4:3:2)	interfacing. Prerequisite: ELC 125 and ELC 127 a
A course in modern control of processes. Programmable controllers, computer-controlled machines, bar code readers,	mioritading. From equipment 220 F20 and 220 F27 a
and process control will be covered. An introduction to the	ELC 228 - Microcontroller Application
field of robotics is included. Prerequisites: (ELC 118 and ELC	This course introduces students to the practical
119) or (ELC 120 or ELC 122) and ELC 130 and MAT 181.	using a microcontroller for real-time embedded a
110) of (LEO 120 of LEO 122) and LEO 100 and With 101.	and develops the skills to interface the microcon
ELC 220 - Analog Electronics I(4:3:3)	peripherals such as timers, stepper motors, anal
A study of active devices including diode and transistor theory.	converters, keypads and light-emitting diode, or
The topics include: semiconductor theory, diode operation, bipolar	displays using project-based content. Prerequisi
(BIT) and field effect (FET) transistor operation, diode circuits,	
small-signal amplifiers, Class A and B transistor power amplifiers,	ELC 230 - Industrial Electronics
and amplifier frequency response. Prerequisites: ELC 121 and	An applications treatment of industrial electronic
(MAT 182 or MAT 185 or MAT 281 or MAT 282 or MAT 283).	including NPN and PNP transistors, UJTs, SCRs,
,	IC voltage regulators, operational amplifiers, and
ELC 221 - Analog Electronics II(4:3:3)	motor control circuits. Prerequisites: ELC 220
A study of amplifier frequency response, decibels, Miller effect,	
Miller's theorem, operational amplifier circuits, various forms of	ELC 232 - Intro to Microprocessors
communications systems, including associated circuit building blocks	An introduction to microprocessors and microc
and concepts. These include filter networks, Fourier series and the	technicians. The course concentrates on prograr
frequency domain, distortion, noise and measurements, oscillator	fundamentals with emphasis on I/O (input/outpu
circuits amplitude and frequency modulation, the phase-locked loop,	devices. Various microprocessors and microcon
transmission lines and antennas and fiber optics. Prerequisites: ELC 220	to highlight the basic principles common to any
	system. Prerequisites: ELC 110 and ELC 131 and
ELC 222 - Network Theorems & Analysis(4:3:3)	
An advance treatment of DC/AC circuit analysis with emphasis on	ELC 233 - Microprocessor Application
development of analytical skill by algebraic solution of compound	A course designed to incorporate the microproc
networks. Branch, Mesh and Nodal techniques with computer	and position control, handshaking, sensor and tr
solutions, and source conversion, Thevenin, Norton and Maximum	stepper motors, and other industrial applications
power theorems are studied. Time variant and phasor wave	
definition are used in solution of series and parallel networks by	ELC 235 - Semiconductor Processes
use of complex algebra and application of all common theorems	This course is designed to introduce the student
of electrical analysis. Prerequisites: MAT 181 and ELC 123.	device fabrication. Included will be an introduction
	physics of semiconductors, oxidation process, p
ELC 223 - Electronic Communications(4:3:3)	etching, wafer cleaning, metallization, and contain
Fundamentals of signal analysis and synthesis including electrical	Prerequisites: CHM 100 and MAT 182 and ELC 1
noise, Fourier Series, modulation and demodulation, transmission	
and reception of AM and FM signals, transmission lines, wave	ELC 236 - Analog Electronics III
propagation, antenna theory, digital data communications,	This course covers an advanced study of electro
microwaves, lasers and fiber optics. Prerequisites: ELC 222	systems that includes signal analysis and synthe
FIG. 60F FI 1 1 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	noise, Fourier series, modulation and demodulat
ELC 225 - Electrical Circuits II(4:3:3)	and reception of amplitude modulated (AM) and
This course covers advanced treatment of direct current (DC) /	(FM) signals, transmission lines, wave propagati
alternating current (AC) circuit analysis with emphasis on	microwaves, lasers, and fiber optics. Prerequisite
applied use of fundamental theorems including Kirchoff's	
laws; source conversions; Thevenin and Norton's theorems;	ELC 240 - Machines and Controls
maximum power transfer; branch, mesh, and nodal analysis	AC motors and DC motors and generators and r

techniques; transient circuit effects; phasor analysis; apparent,

Prerequisites: ELC 125 and (MAT 182 or MAT 182 concurrent)

reactive, and real power; and series/parallel resonant conditions.

llog Electronics II.....(3:2:2) s the fundamentals of analog electronic circuits ard application, circuit/component recognition, output signals, and measurement criteria. Topics transistors, frequency response of amplifiers. ers, and industrial circuits including unijunction silicon controlled rectifiers (SCRs), photoelectronics, ducers. Prerequisites: ELC 126 and (MAT 182 rrent) and (ELC 225 or ELC 225 concurrent) rocontroller Fundamentals.....(3:2:3) nts the concepts and hands-on experience rstand the architecture and software associated with Structured laboratory exercises include assembly gramming, interrupt management, and peripheral uisite: ELC 125 and ELC 127 and CEN 180 crocontroller Applications(4:3:3) luces students to the practical aspects of roller for real-time embedded applications kills to interface the microcontroller with s timers, stepper motors, analog-to-digital Is and light-emitting diode, or liquid crystal ject-based content. Prerequisites: ELC 227 ustrial Electronics(4:3:3) eatment of industrial electronic components. PNP transistors, UJTs, SCRs, IC timers, rs, operational amplifiers, and stepper uits. Prerequisites: ELC 220 o to Microprocessors.....(4:3:3) microprocessors and microcontrollers for electronic ourse concentrates on programming and hardware emphasis on I/O (input/output) operations and nicroprocessors and microcontrollers are used sic principles common to any microcomputer tes: ELC 110 and ELC 131 and ELC 220.

croprocessor Applications(4:3:3) to incorporate the microprocessor using motor speed ol, handshaking, sensor and transducer interfacing, nd other industrial applications. Prerequisites: ELC 232

ELG 233 - SCHILCOHUNCION PROCESSES(4:3:3)
This course is designed to introduce the student to Semiconducto	r
device fabrication. Included will be an introduction to the chemistry	/ and
physics of semiconductors, oxidation process, photolithography, d	oping,
etching, wafer cleaning, metallization, and contamination control.	
Prerequisites: CHM 100 and MAT 182 and ELC 124 and MET 140.	

nlog Electronics III......(3:2:2) s an advanced study of electronic communications des signal analysis and synthesis of electrical es, modulation and demodulation, transmission mplitude modulated (AM) and frequency modulated mission lines, wave propagation, antenna theory, s, and fiber optics. Prerequisites: ELC 226

chines and Controls.....(3:2:2) AC motors and DC motors and generators and related equipment including ladder networks and programmable controllers. Prerequisites: ELC 121 and ELC 130.

ELC 241 - Electrical Concepts(2:2:1)	temperature devices and their measurment. Prerequisites:
Electrical Concepts is designed to further the student's understanding of	ELC 101 and (PHY 111 or PHY 205 or PHY 281)
AC and DC concepts. Topics will include: National Electrical Code (NEC),	
electrical safety, proper wiring techniques, uses of construction drawings	ELC 271 - Process Instrumentation II (4:3:2)
in the layout planning equipment and conduits, wiring devices such as	Theory and application of temperature control including mechanical
panels and overcurrent devices, service-entrance and branch circuit	bulb systems, thermocouples, resistance and radiomatic instruments,
calculations and local code requirements. Prerequisites: (Test scores or	control loops, calibration, and application. Theory and application of
ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125)	flow, humidity, pH, and viscosity instrumentation. Prerequisites: ELC 270
and (Test score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG	
120) and MAT 140 and (ELC 121 or ELC 122 or ELC 124 or ELM 210)	ELC 272 - Electronic Circuit Analysis I(4:3:4)
FLO 040 Dysawsommobile Louis Controllers (4.9.9)	This course introduces the physical principles of solid state electronic
ELC 243 - Programmable Logic Controllers(4:3:3)	devices. Topics include a quantitative study of elementary circuits
This course covers the fundamentals of programmable logic controllers	including biasing, linear power amplifiers, low-frequency small signal
(PLC) systems. Topics include ladder logic programming, analog and	analysis, multiple transistor circuits, and feedback. Prerequisite: ELC 266
digital interfacing, identification and isolation of common system	
faults, and writing specific tasks. Prerequisites: ELC 125 and ELC 127	ELC 275 - Microprocessor Systems(4:3:4)
FLOORE D. DE	This course introduces microprocessors as embedded devices.
ELC 245 - Power RF (4:3:2)	Emphasis is on Input/Output techniques, interrupts, real-
The generation and delivery of radio frequency energy with	time operation, high-level code debugging and interfacing to
emphasis on semiconductor processing. Topics covered include:	various types of sensors and actuators. Projects that address
plasma, oscillators, amplifiers, transmission lines and RF	various embedded applications are a major part of the course.
measurements. Prerequisites: ELC 124 and ELC 220 and ELC 235.	Prerequisites: CIS 211 and ELC 265 and ELC 266 or concurrent
ELC 248 - Electro-Mech. Systems (4:3:3)	ELC 282 - Signals and Systems(4:4:0)
A course in the power and controls systems found in modern	This course is an introduction to signals and systems, with an
machines. Electrical topics include basic DC and AC electrical theory,	emphasis on time and frequency characterization of linear, time-
circuits, electrical control components such as switches, relays,	invarient systems. Topics include discrete and continuous time systems,
transformers, contactors, motors, servos, and electrical safety.	sampling, and Fourier, Laplace, and Z transforms. Application examples
Mechanical components include couplings, gear drives, belting,	include medical imaging, radar, audio and image processing, virus
chain drives and how the electrical components are incorporated	delivery protocols, and biological networks. Prerequisite: MAT 282
into a function system. Pre-requisites: MAT 182 and PHY 205	
	ELC 289 - Approved Technical Elective(3:0:0)
ELC 260 - Biomedical Instrumentation(4:3:3)	Students may complete technical electives for which they have
This course introduces the operation and maintenance of	written prior approval of the department chairperson.
biomedical equipment tthrough classroom and laboratory	
environment. Students learn to evaluate, test, troubleshoot,	ELC 290 - Internship (4:1:9)
and repair various types of equipment commonly used in	Applied experience through a supervised work situation
the medical field. Prerequisites: ELC 226 or concurrent	such as a campus repair shop, computer store or related
FIG.004 B' I' II I II	business and industry. Prerequisites: ELC 130
ELC 261 - Biomedical Instrumentation II(4:3:3)	
This course reinforces and applies the operation and maintenance	ELC 291 - Biomed Electronics Internship(3:0:10)
of biomedical equipment through classroom and laboratory	This course provides the student with experience working
environment. Students strengthen skills to evaluate, test,	in a clinical engineering environment at a local hospital. The
troubleshoot, and repair various types of equipment commonly used in the medical field. Prerequisites: ELC 260	student applies learned knowledge and skills to technical
used in the medical neid. Prefequisites. ELG 200	situations while learning about professional growth, ethics, and
ELC OCE Intro to Digital Systems (5.5.5)	maintenance philosophies. Prerequisites: ELC 226 and 260
ELC 265 - Intro to Digital Systems (3:2:4)	
This course covers analysis and design of logic circuits. Topics	ELM 110 - Intro To Computers & Tech. (3:2:2)
include Boolean algebra and its application to switching circuits,	An introduction to problem solving by computer methods with
simplification of switching functions, and design of logic circuits at	specific emphasis on solution of scientific and engineering
gate level and with MSI and LSI components. Analysis and design of synchronous and asynchronous sequential state machines	technology related problems. Solution methods will include the
are also covered. Prerequisites: CEN 100 and CSC 114	use of DOS, mathematics applications software, engineering
are also covered. Frerequisites. OEW 100 and 000 114	analysis software, and word processor. Prerequisite: Test
ELC 266 - Analog Circuits I(4:3:4)	score or ENG 051 and Test score or RDG 051
This course covers the laws of the electric circuit, analysis of alternating	
	ELM 130 - Industrial Electricity(3:2:4)
current (AC) and direct current (DC) circuits, network equations, and network theorems. Prerequisites: CEN 100 and MAT 282 and PHY 281	This course provides an overview of three phase circuits, protective
HIGHWOLK HIGHIGHES. FIGIEGUNSHES. DEN 100 ANN MAI 202 ANN PAT 201	devices, transformer connections, motors, motor starters, and
FIG.070 Process Instrumentation I	industrial maintenance techniques. Electrical and solid state motor
ELC 270 - Process Instrumentation I(4:3:2)	controls are introduced. Emphasis is placed on electrical and
This course covers theory, application, tuning and troubleshooting	industrial safety circuits. Prerequisites: MAT 140 or concurrent
of industrial control using proportional- integral-derivative	
(PID) control algorithms. Topics include pressure, level, and	ELM 189 - Approved Technical Elective(3:0:0)

written prior approval of the department chairperson.	necessary to provide basic care in the prehospital environment. Prerequisites: BIO 130 Co-requisites: EMT 201 and EMT 207
ELM 205 - Mechanisms and Design	EMT 201 - Patient Assessment
An overview of three-phase circuits, protective devices, transformer connections, motors, motor starters, and an introduction to solid state control and programmable controllers. Prerequisites: ELC 122 or ELC 120. ELM 215 - Industrial Controls	EMT 202 - Medical Emergencies I
controllers, numerical control, bar code readers, and static logic control will be covered. An introduction to the field of robotics is included. Prerequisites: ELC 122 or ELC 120	and medication administration. PREREQUISITES: EMT 200 and EMT 201 and EMT 207 CO-REQUISITES: EMT 203 and EMT 217 EMT 203 - ALS Skills Lab I(3:0:10)
ELM 220 - Prop. & Behavior of Matrls	A comprehensive course focusing on advance life support (ALS) skills associated with the current and anticipated paramedic scope of practice. Emphasis is placed on basic and advanced airway management, non-invasive monitoring, and electrical therapies. PREREQUISITES: EMT 200 and EMT 201 and EMT 207 CO-REQUISITES: EMT 217
ELM 250 - Industrial Automation	EMT 204 - Special Populations
ELM 252 - Fluid Power	A supervised clinical experience is provided in pertinent clinical and prehospital settings correlating with the knowledge, skills and techniques presented in EMT 200 and EMT 201. Emphasis is placed on basic life support and patient assessment skills. Prerequisites: BIO 130 Co-requisites: EMT 200 and EMT 201
ELM 289 - Approved Technical Elective	EMT 211 - Cardiology
ELM 290 - Electromechanical Internship	201 and EMT 207. Co-requisites: EMT 203 and EMT 217 EMT 212 - Medical Emergencies II
EMT 189 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have prior approval of the department chairperson.	the renal, urological, gastrointestinal, and hematological systems. Prerequisites: EMT 202 and EMT 203 and EMT 211 and EMT 217. Co-requisites: EMT 213 and EMT 227.
EMT 200 - Intro To Paramedic Technology	EMT 213 - ALS Skills Lab II

this course will provide the student with the theory and skills

Students may complete technical electives for which they have

and national and local issues which impact EMS. In addition,

EMT 914 Lorel legues/Decearch (0.0.0)	ENC 000 Dooding 9 Writing (5.5.0)
EMT 214 - Legal Issues/Research(3:3:0) This course covers the legal principles that govern health care, including	ENG 090 - Reading & Writing(5:5:0) This course provides reinforcement in writing skills and in
documentation, the Patient Bill of Rights, liability, confidentiality, and	reading fluency and comprehension skills. Reading and
specialized topics concerning emergency medical services. Protocols and	writing activities are integrated to provide continuity and
laws specific to the State of Delaware will be emphasized. Also included	practical application. Prerequisites: Test Scores or (ENG
is an overview of the collection and management of data associated	005 and RDG 005) or ENG 006 or ENG 007 or higher
with prehospital and preventive services. Prerequisite: EMT 200	
	ENG 091 - Reading & Writing (ACC)(2:2:0)
EMT 215 - Trauma Emergencies(2:2:0)	This accelerated course provides reinforcement in writing
A comprehensive course that covers the pathophysiology,	skills and in reading fluency and comprehension skills.
assessment and management of patients who experience	Reading and writing activities integrated to provide continuity
traumatic injuries. Prerequisites: EMT 202 and EMT 203 and EMT	and practical application. Prerequisites: Test scores
211 and EMT 217. Co-requisites: EMT 213 and EMT 227.	ENC 000 Analytical Thire Day 9 Water (7.5.0)
EMT 217 - Paramedic Clinical II(3:0:15)	ENG 099 - Analytical Thkg, Rdg, & Wrtg(7:5:2) A review course designed to provide reinforcement and application of
A supervised clinical experience is provided in pertinent clinical	analytical thinking, reading and writing skills before taking RDG 120
and prehospital settings correlating with the knowledge, skills	and ENG 121. Topics covered include comprehension and vocabulary
and techniques presented in EMT 202, EMT 203 and EMT 211.	skill development that equip students with a mastery of language and
Emphasis is placed on advanced patient assessment, airway	enable students to increase reading flexibility; articulate thoughts
management and team leader development. Prerequisites: EMT	clearly and effectively both orally and in writing; research, evaluate
200 and EMT 201 and EMT 207. Co-requisites: EMT 203.	and acknowledge credible sources, and develop proficient, clear, and
	logical writing. ENG 099, a combined RDG 051 and ENG 051 course,
EMT 227 - Paramedic Clinical III(3:0:15)	is typically offered in the fall and spring semesters as a concurrent
A supervised clinical experience is provided in pertinent clinical	course with SSS 101, Mastering College Life or SSS 102, Personal/
and prehospital settings correlating with the knowledge, skills	Career Development. Prerequisites: (Test score or ENG 005 or ENG
and techniques presented in EMT 204, EMT 212, EMT 213 and	006 or ENG 051 NCS 051 or NCW 090 or ESL 034 or ESL 100 or
EMT 215. Emphasis is placed on trauma care, pediatric care	ENG 121 or ENG 125) and (Test score or RDG 005 or ENG 006 or RDG 051 or NCS 052 or NCW 091 or ESL 032 or ESL 100 or RDG
and team leader practice. Prerequisites: EMT 202 and EMT	120) and (SSS 101 (concurrently) or SSS 102 (concurrently)).
203 and EMT 211 and EMT 217. Co-requisites: EMT 213.	120) and (000 101 (concurrently) of 000 102 (concurrently)).
EMT 289 - Approved Technical Elective(3:0:0)	ENG 100 - Grammar Essentials(1:1:0)
Students may complete technical electives for which they have	This course is designed to provide instruction in grammar
written prior approval of the department chairperson.	fundamentals. Topics include sentence structure, sentence variety,
white prior approval or the apparament champereen.	punctuation, agreement, and pronoun usage. Additional resources are
EMT 290 - Paramedic Field Clinical(4:1:15)	available for skill enhancement. Prerequisites: (Test score or ENG 051
A supervised clinical experience is provided in the prehospital	or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test
setting. Students must manage trauma and medical patients across	score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120).
all age groups as team leader. Prerequisites: EMT 204 and EMT	FN0 404 0 1 F1 1 1 0 5 1 W 11 (2.5.5)
212 and EMT 213 and EMT 214 and EMT 215 and EMT 227.	ENG 101 - Crit Thinking & Acad Writing(3:3:0)
	This college-level course is designed to teach the concepts of critical thinking and reading skills in the context of written response
ENG 005 - Basic Writing(4:4:0)	and essay writing. This course introduces and reinforces the
A developmental course designed to improve mechanics,	skills necessary to complete academic essays and to repond to
usage and sentence and paragraph writing. Additional resources	diverse texts in meaningful ways. Prerequisites: Test scores or
are available for skill enhancement. Prerequisites: None.	(ENG 051 and RDG 051) or ENG 090 or ENG 091 or higher
ENG 006 - Introductory Reading & Writing(7:7:0)	
This introductory course covers fundamental reading and writing	ENG 102 - Composition and Research(3:3:0)
skills for success at the developmental level. Reading and writing	This college-level course is designed to enhance writing, research, and
activities are integrated to provide continuity and practical application.	speaking skills and to provide academic writing and reasoning skills to
	foster lifelong learning. Prerequisite: Test score or ENG 101 or RDG 120
ENG 007 - Intro Reading & Writing (ACC)(2:2:0)	ENG 121 - Composition(3:3:0)
This accelerated introductory course covers fundamental	A college-level course designed to improve writing skills through
reading and writing skills for success at the developmental	practice in writing paragraphs, essays, information-based
level. Reading and writing activities are integrated to provide	documents, and reports. Additional resources are available for
continuity and practical application. Prerequisites: Test scores	skill enhancement. Prerequisites: Test score or ENG 051 or NCS
	051 or ESL 100 or ENG 125 and Test score or RDG 051 or NCS
ENG 051 - Pre-Tech Writing(4:4:0)	052 or ESL 100 or RDG 120 and Test score or ENG 099
A review course designed to provide reinforcement in writing	
skills before taking English I. Topics include applied writing, sentence structure, and usage. Additional resources are	ENG 122 - Technical Writing-Comm(3:3:0)
available for skill enhancement. Prerequisites: Test score	An advanced college-level course designed to enhance skills in
or ENG 005 or ENG 006 or ENG 099 or NCS 051 or NCW	the creation of professional communications and reports through
051 or ESL 034 or ESL 100 or ENG 121 or ENG 125.	interpretation and analysis of empirical and print data. Prerequisites:

(Test score or ENG 121 or ENG 125) and (Test score or RDG 120).

ENG 124 - Oral Communications	Projects focus on the creation and presentation of literary concepts suitable for class room instruction. Prerequisites: Test score or RDG 120 and ENG 121 or ENG 125 and ENG 122
ENG 125 - Honors Composition(3:3:0) This course which has higher level standards fulfills the	ENG 289 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
requirement for ENG 121 composition. It emphasizes writing in a variety of modes and integrates the topic of technology and its influences. Prerequisites: Test scores	ENT 101 - Intro to Entrepreneurship(3:3:0) This course introduces the student to the responsibilities of the
ENG 126 - Pre-Industrial Literature	entrepreneur and the unique concepts of business ownership. Students will benefit from case studies and practical entrepreneurial experiences, including interaction with successful regional entrepreneurs. Topics include the importance of business planning and the role and nature of entrepreneurship as a mechanism for creating new ventures. Prerequisites: (((Test Scores or RDG 051 or higher)) and (Test Scores or ENG 051 or higher)) or Test Scores
ENG 127 - Post-Industrial Literature(3:3:0) A course designed to broaden the perspective of technical	or ENG 090 or concurrent or ENG 091 or concurrent or higher).
students by examining the relationship between cultural and social values after the Industrial Revolution as reflected in a variety of literary genres and media. Prerequisites: ENG 121 or ENG 125	ENT 103 - Legal Issues for ENT
ENG 128 - Black American Literature	their business structure, learn contract law, properly navigate government regulations and understand legal parameters related to the management of human resources. Prerequisites: (Test Scores or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test Scores or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120) and (ENT 101 or BUS 101)
ENG 129 - Creative Writing (3:3:0) This course is designed to foster creativity and improve writing	ENT 104 - Opportunity Analysis(3:3:0) This course examines the entrepreneur's role in the global economy
skills through practice in writing paragraphs, short stories, and literature critiques. Prerequisites: RDG 051 and ENG 121	as an exploiter of opportunities. Topics include the creative search for ideas, the innovation process, and the opportunity analysis to
ENG 130 - Honors Tech. Writing & Comm(3:3:0) An honors course designed to provide students the opportunity to explore the interrelationships between the dimensions of leadership and effective decision making results in technical communication. Prerequisites: ENG 121 or ENG 125 and Test score or RDG 120	screen for the best ideas. Learning activities cover the decisions needed to transform an idea into a business opportunity. Topics covered include the common sources of ideas, the environmental scan, creating opportunities from ideas, quick industry analysis, competitor scan, decision making principles and analytical techniques to screen opportunities for commercialization potential. Prerequisites: CIS 107 and (ENT 101 or BUS 101).
ENG 131 - Honors Oral Communication(3:3:0)	
A course designed to improve interpersonal, group, and public communication skills through investigation and support of individual leadership roles. Prerequisites: ENG 121 or ENG 125 and Test score or RDG 120	ENT 106 - Business Procedures
ENG 160 - Business Communication(3:3:0) ENG 160 is an advanced level course designed to develop the skills necessary for researching, planning, designing, writing, and editing of technical documents. Students gain experience	environment. Topics include the probability of risks along with the development of crisis management, disaster recovery, and business continuity plans. Prerequisites: (BUS 101 or ENT 101) and CIS 107
in analyzing empirical and print data and selecting appropriate format, style, and tone. Requirements include the composition of a variety of documents tailored to specific professions. Prerequisites: ENG 121 and Test score or RDG 120	ENT 210 - ENT Business Process(3:3:0) ENT Business Process is the cornerstone of success. This course teaches entrepreneurs to state their business passion in practical terms. Analyzing the market and competition, setting achievable
ENG 189 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	goals, and creating a strategic business plan are emphasized. Understanding the probability of risks, along with developing crisis management, disater recovery, and the business continuity plans, provides entrepreneurs with a solid basis to achieve their vision. Prerequisites: (ENT 101 or BUS 101) and MGT 212 and
ENG 210 - Erly Chidhd/Elem Literary Stdy(3:3:0) An interactive children's literature course intended to provide an overview of various genres, cultural perspectives and universal	ENT 211 - Business Start Up Design(3:3:0) This course allows students to obtain the internationally recognized
themes in an age and developmentally appropriate context.	

Entrepreneurship Kauffman FastTrac Certification. Students develop knowledge and skills in market needs identification, financial goal setting, product/service planning, market research and analysis, building organizational teams, business profitability, fund seeking and cash flow, and future business planning. Prerequisites: (ENT 101 or BUS 101) and ENT 106

ENT 220 - Leadership(3:3:0)

This course explores the characteristics of organizational leaders and evaluates various theories related to leadership. It emphasizes the development of leadership skills that motivate others to implement the entrepreneur's vision. Leadership strategies and management techniques that promote team building and business success are also covered. Prerequisites: BUS 101 or ENT 101

ENT 225 - Entrepreneurial Experience(3:3:0)

This course allows students to apply first-hand the procedures and techniques of owning and running a business. The student will acquire applied experience in an appropriate work situation through job shadowing, and internship, a business simulation or a student start-up business. Students will be expected to comply with the business regulations, laws, and policies for the applicable practicum. In internship and job shadowing cases, students will be supervised and evaluated by a professional designated by the facility based upon criteria provided by the instructor. (Note: Students will not receive compensation in any form for business participation.) Prerequisites: (ENT 210 or BUS 213 or MGT 218) and ENT 240 and MKT 212.

ENT 240 - Funding & Finance for ENT.....(3:3:0)

This course covers sources of capital options, basic financial knowledge, and forecasting skills. Topics include ratio analysis, financial oversight, and cash flow necessary to develop and maintain a business. Prerequisites: (ACC 100 or ACC 101) and (Test Scores or MAT 140 or MAT 153 or higher)

ENT 285 - Business Plan Development(3:3:0)

In this course, students prepare professional, comprehensive business plans that will guide student business start-ups and address capital funding. Students present their business plans to community leaders. Prerequisites: ENT 106 and ENT 211

ENV 189 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

ENV 190 - Intro to Envtl Science & Tech(3:3:0)

This course introduces environmental science, pollution control and environmental technology. It provides students with a basic understanding of the normal ecology of the planet and the risks associated with polluting the environment. Environmental pollution and control technology topics include safe drinking water, wastewater treatment, air pollution, solid waste and hazardous waste management. Prerequisites: (Test score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120) and (Test score or MAT 005 or NCS 005 or NCW 045 or MAT 075 or MAT 090 or MAT 012 or NCS 012 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 181).

ENV 215 - OSHA Hazardous Waste Operation.....(2:2:1)

This course utilizes lecture, guided discussion, video presentation, and student participation in extensive simulation and "hands-on" exercises as they relate to hazardous materials and hazardous

waste. Upon successful completion students are awarded the 40-hour OSHA certification. Prerequisites: CHM 110

ENV 240 - Environmental Field Sampling(3:2:4)

Study of the theory and techniques important in the sampling of various environmental matrices: ground water, surface water, agricultural discharges, soils, sediments, hazardous wastes, and air. Topics include design of sampling protocols sampling equipment and procedures, quality assurance/control data quality, reporting, environmental laws and regulations which impact the field of sampling, analysis, and waste characterization. Prerequisites: BIO 127 and CHM 130.

ENV 256 - Process Control(3:3:0)

Introduction to the monitoring, operation, and control concepts for biological treatment processes. The primary emphasis is on the activated sludge water treatment process, but the technique of fixed film process operation is also covered. Topics covered include level monitoring, data acquisition, process control calculations, biological process analysis, and problem solving. Advanced topics discussed include filamentous bacteria identification, biological nitrogen removal, biological phosphorus removal, and current issues in the industry. Prerequisites: BIO 150 or BIO 125 and Test score or MAT 015 or MAT 016

ENV 260 - Water/Wastewater Process Dsgn(4:4:0)

This course covers the engineering principles and design criteria of basic environmental control processes; coagulation/flocculation basins; clarifiers, gravity filters; activated sludge systems; stabilization ponds; chemical treatment processes for disinfection, nitrate and volatile organic compound (VOC) removal; advanced wastewater treatment processes for suspended solids; phosphate and nitrate removal; carbon absorption; and various wastewater reclamation processes. Prerequisites: BIO 150 or concurrent and CHM 110 and CET 125 and ENV 190 and MAT 181.

ENV 264 - Water Sources.....(3:3:0)

A basic class for water resource managers. Includes surface and groundwater sources. Covers hydrology, water quality, laws and regulations, flow measurements, storage, intake structures, wells, materials and equipment line repair, fire hydrant maintenance, cross-connection control, storage, water quality, pump stations, cleaning and maintenance of lines, and infiltration inflow monitoring. Prerequisites: Test score or RDG 051 and Test score or ENG 051 and Test score or MAT 012

ENV 267 - Water Treatment (4:3:2)

An in-depth survey of the processes, theory, application, and operation of potable water treatment systems. Topics covered include the theory and operation of mixing systems, coagulation chemistry, monitoring optimization of chemical applications, flocculation, sedimentation, water filtration, disinfection, water softening, ion exchange, membrane processes, and treatment plant instrumentation and control. Prerequisites: Test score or RDG 051 and Test score or ENG 051 and Test score or ENG 051 and Test score or MAT 015 or MAT 016

ENV 268 - Industrial Waste Management.....(3:3:0)

Study of basic industrial waste treatment processes and procedures, including: environmental impact statements; stream protection measures; NPDES system and permits; stream organic loading computations; waste treatment economics; waste volume reduction; flow equalization and proportioning; neutralization; design and operating principles of treatment processes for suspended, colloidal, inorganic and organic dissolved solids; federal pre-treatment requirements; specific case studies. Prerequisites: BIO 127 and CHM 130 and MAT 181.

ENV 271 - Principles of Site Assessment	
ENV 275 - Environmental Sustainability	
ENV 276 - Honors Envrmntl Internship	
ENV 289 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	
ENV 292 - Wastewater Sys & Solid Hndling	
ENV 293 - Mgmt of Wastewater/Water Fac(4:3:3) This course introduces students to the fundamental practices that are utilized in managing a water or wastewater facility. Topics include the functions of operator, operation and maintenance from a management perspective, regulatory compliance, reporting requirements, audits, safety and financial management. Prerequisites: (Test score or ENG 121 or ENG 125) and MAT 181 and (BIO 140 or BIO 150).	
ENV 298 - Instrumentation & Pumping	

and control of these parameters are discussed. The identification,

application, troubleshooting and repair of commonly found pumps and systems are also addressed. Prerequisites: Test score or

ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and

Test score or RDG 051 or NCS 052 or ESL 100 or RDG 120 and

Test score or MAT 015 or or NCW 045 or MAT 075 or MAT 090

or MAT 135 or MAT 140 or MAT 141 or MAT 153 or MAT 181 or

This course provides an overview of the energy industry and the

ERM 101 - Intro to Energy Technologies(3:3:0)

MAT 182 or MAT 185 or MAT 251 or MAT 261 or MAT 281.

role of sustainable energy resourses in today's society. Students will learn about energy production and costs, the dynamics of worldwide energy consumption and growth, the principle methods by which energy is used, and its environmental and financial impacts and consequences. Prerequisites: Test score or RDG 051 or NCS 052 or ESL 100 or RDG 120 and Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or MAT 012 or NSC 012 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 141 or MAT 150 or MAT 153 or MAT 181 ERM 102 - Renewable Energy Sources(3:2:2) This course provides a comprehensive overview of renewable energies, including solar energy, wind power, hydropower, fuel cells, biomass, and alternative transportation options. Students will be taught the principles of solar home design, solar hot water, pool and space heating, and solar cooling. Prerequisites: (Test score or RDG 051 or NCS 052 or ESL 100 or RDG 120) and (Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test score or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 130 or MAT 140 or MAT 150 or MAT 153 or MAT 181 or MAT 185) and ERM 101 ERM 103 - Electrical Lighting and Motors(3:2:2) This course covers the components of lighting systems and motors. Energy efficiency opportunities and environmental impacts in these areas are identified and analyzed. Prerequisites: (Test score or RDG 051 or NCS 052 or ESL 100 or RDG 120) and (Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test score or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 130 or MAT 140 or MAT 150 or MAT 153 or MAT 181 or MAT 185) and ERM 101 ESL 022 - Beginning ESL Reading/Vocab.....(4:4:0) This beginning level reading course is designed for students to build their vocabulary, develop comprehension skills and expand their knowledge of basic grammatical structures. Topics from popular culture will be presented. Prerequisites: None ESL 024 - Beginning Writing(4:4:0) The aim of the course is to help students develop the writing and vocabulary skills necessary for everyday communication as well

as to build a foundation for further study. Prerequisite: None ESL 026 - Beginning Grammar/Comm(8:8:1) This course introduces students to the grammar necessary for communication in basic everyday situations. Prerequisites: none ESL 028 - Beginning Listenng/Speakng(4:4:0) In this beginning level listening and speaking course, students will listen to simple commands, directions, and limited conversations to do task-oriented activities. Students will use target structures and new vocabulary to talk about the basic topics. Prerequisites: None ESL 031 - Personal Computers for ESL.....(3:3:0) This course is designed to expose the non-native speaker of English to the computer keyboard, the basic parts of the computer, and simple work processing features. Emphasis is placed on keying, proofreading, and spelling by keying daily assignments and personal business letters. Prerequisites: ESL 022 and ESL 024 and ESL 026 and ESL 028. ESL 032 - Intermediate Reading.....(4:4:0) Students will read articles of high beginner-intermediate level difficulty. Emphasis will be placed on vocabulary expansion through context

with the college library. Prerequisites: lest score or ESL 022.	This is an advanced writing course for the non-native speaker of English. Students develop their ability to consistently produce
ESL 033 - Using Intermediate ESL I(4:4:0)	grammatically and contextually correct sentences in various tenses.
The principal focus of this course is on the structures (grammar) of the English language and the real life usage of those structures for	Students also develop their ability to create unified, coherent paragraphs with a controlling idea and adequate supporting details.
every day communication. Students at this level expand the scope of	Prerequisites: Two Test scores or (ESL 034 and ESL 036).
their interactions in English to communicate in situations such as in the doctor's office or in a restaurant. Prerequisites: Two Test scores	ESL 045 - Using Advanced ESL II(4:4:0)
	This course continues the study of the advanced level of ESL.
ESL 034 - Intermediate Writing(4:4:0)	Students use complex structures and expressions such as those
Students will compose simple, compound and complex sentences in short paragraphs which show unity and coherence. They are	needed to discuss hypothetical situations and to express opinions. They develop a mastery of American English through a series
introduced to formal letter writing and electronic correspondence.	of carefully sequenced listening, speaking, reading, and writing
Prerequisites: Placement or (ESL 024 and ESL 026).	activities. Emphasis is on advanced to high advanced grammatical
	structures and skills. Prerequisites: Two Test scores or ESL 043.
ESL 035 - Using Intermediate ESL II(4:4:0) The principal focus of this course is on the structures (grammar) of	ESL 046 - Advanced Grammar/Communication(8:8:1)
the English language and the real life usage of those structures for	Students are introduced to complex grammatical structures
every day communication. Students at this level continue expanding	and develop mastery of English through a series of carefully
the scope of their interactions in English to communicate in a variety of real-life situations. Prerequisites: Two Test scores or ESL 033	sequenced communicative activities. Prerequisites: Placement scores or (ESL 034 and ESL 036).
of real-file Situations. Frerequisites. Two rest scores of ESE 000	1 laconton 6 000100 of (EGE 00 1 and EGE 000).
ESL 036 - Intermediate Grammar/Comm(8:8:1)	ESL 047 - Adv ESL Reading & Writing I(3:3:0)
Students at this level expand their use of grammatical	Students will use a variety of selections appropriate for advanced ESL to develop reading skills and vocabulary. Students develop ability to
structures to facilitate communication in a variety of settings. Prerequisites: Placement scores or ESL 026	consistently produce grammatically and contextually correct sentences.
ostango. From equiption. Fraction in coords of Ede O20	They produce unified, coherent paragraphs with a controlling idea
ESL 037 - Interm ESL Reading & Writing I(3:3:0)	and supporting details. Prerequisites: (Two test scores or (ESL 035 and ESL 039) or (ESL 034 and ESL 036). Co-requisite: ESL 043
Students will use a variety of selections appropriate for low intermediate	and ESE 039) of (ESE 034 and ESE 030). 00-regulate. ESE 043
ESL to develop reading comprehension and vocabulary skills. Readings will serve as prompts for the composing of correct sentences and	ESL 048 - Advanced Listening/Speaking(4:4:0)
cohesive, coherent paragraphs. Prerequisites: Two test scores or	This course develops listening and speaking skills for
(ESL 022 and ESL 024 and ESI 026). Co-Requisite: ESL 033	advanced-level ESL students through interactive and task- based activities. Emphasis is on understanding and expressing
ESL 038 - Intermediate Listening/Speakng(4:4:0)	ideas and opinions in extended discourse on a broad range of
A course intended for intermediate level ESL students.	topics. Prerequisites: Placement or (ESL 036 or ESL 038).
Through the use of task based listening activities and role	FCL 040 Adv FCL Dooding 9 Writing II (9.9.9)
plays, this course develops listening and speaking skills. The focus is on daily life situations. Prerequisites: ESL 028	ESL 049 - Adv ESL Reading & Writing II(3:3:0) Students will use a variety of selections appropriate for advanced
Todas is oil daily life situations. Frerequisites. ESL 020	ESL to develop reading skills and vocabulary. Students develop
ESL 039 - Interm ESL Reading&Writing II(3:3:0)	ability to consistently produce grammatically and contextually
Students will use a variety of selections appropriate for intermediate	correct sentences. They produce unified, coherent paragraphs with a controlling idea and supporting details. Prerequisite:
ESL to begin developing academic reading and writing skills. They will also improve their comprehension and writing for work-	Three test scores or ESL 047. Co-requisite: ESL 045
related and interpersonal communication. Prerequisites: Three	
test scores or (ESL 033 and ESL 037). Co-requisite: ESL 035	ESL 050 - Pre-Tech ESL I(3:3:0) Paired with ENG 051, this course is the first of a two-semester
ESI 049 Advanced ESI Deading (4.4.9)	sequence of college preparation for non-native speakers of English.
Using ESL readings of high intermediate through advanced level,	Focus will be placed on reading college texts and listening/
students identify the main idea and supporting detail of paragraphs.	note taking for academic lectures. Students must complete ESL 050/051 and ENG 051 in order to be accepted into a College
Vocabulary expansion is highlighted. Periodicals are also used so	diploma or degree program. Prerequisites: Three test scores or
students can read and discuss current events. Students are given an introduction to United States' history through short library	(ESL 045 and ESL 049) or (ESL 042 and ESL 044 and ESL 046).
research assignments. Prerequisites: Test score or ESL 032	FCI 400 FCI for Donnes Browns (0.0.0)
FOL 040 Heim Adversed FOLL	ESL 100 - ESL for Degree Programs(8:8:0) Students develop the skills necessary for success in college
ESL 043 - Using Advanced ESL I(4:4:0) This course introduces students to the advanced level of ESL.	courses, progressing from writing of paragraphs to essays,
Students use complex structures and expressions such as those	to a thesis paper. Reading and listening exercises will help
used in expressing wishes, plans, and regrets. They will develop	students develop the comprehension and note taking skills required for college level lectures and texts. Prerequisites:
a mastery of their new language through a series of carefully sequenced listening, speaking, reading, and writing activities.	Three Test scores or (ESL 042 and ESL 044 and ESL 046).

and basic comprehension. Students will also become acquainted

Emphasis will be on high-intermediate to low-advanced skills and concepts. Prerequisites: Two Test scores or ESL 035

ESL 044 - Advanced ESL Writing(4:4:0)

ESL 110 - American Experience Seminar(1:1:0) This course will familiarize ESL students with community resources and offer an opportunity to experience American culture through participation in local and regional activities and events. Prerequisite: None	EXS 101 - Functional Kinesiology
ESL 189 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have prior written approval of the department chairperson.	exercises using various types of equipment. Prerequisites: BIO 120 EXS 105 - Conditioning & Strength Trning(4:3:2) Conditioning and Strength Training presents a thorough review
ESL 289 - Approved Technical Elective	of skeletomuscular anatomy, physiology, and kinesiology along with basic principles of aerobic conditioning, strength training, flexibility and stretching. Prerequisites: EXS 100 and EXS 101
ESM 189 - Approved Technical Elective	EXS 120 - Wellness and Health Promotion(3:3:1) The focus of this course is on personal health management and behavior change techniques used for individual and group populations. Through case studies and small group learning the student will analyze current life styles and propose safe and effective life style modifications to optimize health and wellness. Prerequisites: EXS 100 and EXS 101
Thirty credits of approved course work offered through the Delaware Emergency Management Agency, the Delaware State Fire School, and other emergency management, fire, safety, and police training institutions and academies must be transferred into this program. See the Course Articulation List for training that has been pre-approved as meeting the technical course requirements. Students without ESM relevant work experience must complete a six credit practicum offered through Delaware Technical and Community, College, as part of the 30 credit requirement. When the 30 technical credit requirement is documented through established procedures as met, advanced credit will be awarded through ESM 199. Prerequisites: None	EXS 135 - Exercise Science Clinical I
ESM 289 - Approved Technical Elective	EXS 200 - Nutrition for Sport & Exercise
ETH 100 - Intro to Latino Cultures	fallacies, evolution of popular diets, and dietary approaches for specific physical activity are examined. Prerequisites: BIO 115 and EXS 135. EXS 205 - Fitness for Special Populatns (3:3:1) This course presents the pathophysiological basis of disease of various body systems. Appropriate exercise prescription and precautions for
ETH 101 - Intro to Pan African Cultures(3:3:0) This course introduces students to African cultures and	special populations are considered. Prerequisites: EXS 135 and BIO 121
highlights the biographies of African-Americans who have made significant contributions to society, Students will gain an awareness of the diversity of Pan-African cultures. Prerequisites: Test score or ENG 005 and Test score or RDG 005	EXS 225 - Advanced Exercise Testing
ETH 189 - Approved Technical Elective	EXS 230 - Health Fitness Instruction
ETH 289 - Approved Technical Elective	examination. Methods to assess design, and implement individual and group exercise and fitness programs for apparently healthy individuals and individuals with controlled disease are examined. Case studies and coordinated laboratory activities are an integral part of this course. Prerequisites: EXS 135 and (ENG 124 or ENG 131)
This course presents an overview of scientific principles, methodologies, and research as applied to exercise and physical fitness. The emphasis is on physiological responses and adaptations to exercise. Coordinated laboratory experiments are an integral part of this course. Prerequisites: BIO 120	EXS 235 - Exercise Clinical II

EXS 289 - Approved Technical Elective(3:0:0)	FET 201 - Loss Control Procedures(3:3:0)
Students may complete technical electives for which they have	The detection, correction, and monitoring of unsafe acts and conditions
written prior approval of the department chairperson.	are covered in this course. Loss prevention activities in vehicle operations, workmen's compensation issues, and other non-fire related
FET 111 - Intro to Fire Protec Eng Tech(4:3:3)	potential loss situations are discussed. Prerequisites: FET 200
This course is a study of the nation's fire experience with an overview of the technology and techniques used to protect people and property.	FET 221 - Fire Design I(4:3:3)
Fire codes, detection and alarm systems, water-based sprinkler systems.	Using computer-aided drawing and fire protection industry
introductory hydraulic principles, and building construction types are	specific software, students prepare code compliant working
covered along with human behavior in fire situations. Prerequisites: (Test scores or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or	drawings and hydraulic calculations for automatic sprinkler system designs. Prerequisites: EDD 171 and FET 112 and FET 160
ENG 125) and (Test scores or MAT 012 or NCS 012 or MAT 015 or NCW	designs. Therequisites. EDD 171 and 121 112 and 121 100
045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 130 or	FET 222 - Fire Protection Design II(4:3:3)
MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181) and (Test	An advanced course utilizing computer-aided drafting to prepare
scores or RDG 051 or NCS 051 or ENG 099 or ESL 100 or RDG 120).	working drawings of CO2 systems, foam-water sprinklers, fire
FET 112 - Fire Protection Systems(3:2:2)	detection, and fire alarm systems. The drawings will comply with the current codes and standards. Prerequisites: FET 221
This course of study will concentrate on the fire protection equipment	the ourrent codes and standards. From equisites. FET 221
which can be installed in a building to protect both the occupants and	FET 240 - Fire Service Administration(4:3:3)
the property from unwanted fires. The first portion of the course will	This course introduces the student to the organization and management
be devoted to automatic fire sprinklers and special fire extinguishing systems. The various types of sprinkler heads, valves and systems will	of a fire department and the relationship of government agencies
be discussed and demonstrated utilizing the Fire Protection Systems	to the fire service. Emphasis is placed on fire service leadership from the perspective of the company officer. Exercises apply lecture
Laboratory for student activities. The second portion of the course	subjects to realistic situations. Prerequisites: Test score or ENG
will be devoted to a study of the various types of fire/heat/smoke detection devices and fire alarm systems. Prerequisites: FET 111	121 or ENG 125 and National FireFighter Level II Certificate.
action across and mo dam systems. Thoroganicos. TET TTT	FET 250 - Fire Investigation(4:3:3)
FET 117 - Principles of Fire Alarms(3:3:0)	This course covers procedures for the analysis of the origin and
This course is for those persons who are working in the fire alarm	cause of accidental and incendiary fires. Topics include types
industry now and wish to increase their knowledge and skills or for those persons who are seeking employment in this exciting branch of	of fire causes, conducting origin and cause analysis, collection
Fire Protection. Students will study several technical subjects which are	and preservation of evidence, scene security, detection and determination of accelerants, courtroom procedure and testimony,
vital to the understanding of fire alarm systems. These subjects include,	and documentation of the fire scene. Laboratory exercises apply
but are not limited to: basic electricity, initiating devices, alarm systems concepts, installation, testing and maintenance. Prerequisites: None	lecture subjects to realistic situations including the analysis of small
concepts, installation, testing and maintenance. Frerequisites: None	and full scale demonstration fires. Prequisites: FET 200 and (ENG 122 or ENG 130) and National FireFighter Level II Certification.
FET 130 - Fire Safety Computer Appl(3:2:2)	TEE of Eva 100) and validhar first igned Edvor it continuation.
The use of off-the-shelf programs suitable for fire protection and	FET 261 - Inspections(4:3:2)
safety management fields are highlighted in this course. Students receive instruction and practice in word processing, spreadsheets,	Fire and safety inspections are important in a comprehensive
and database management computer programs. Prerequisite: None	loss control program. The knowledge and skills necessary to perform effective inspections are covered in this course.
	Inspections of various occupancies will be completed and
FET 160 - Codes and Standards (4:3:2)	reported by the students. Prerequisites: FET 200
Fire prevention regulations, the Life Safety Code, and building codes are covered. Fire protection standards and their role in	FFT 000 Annual Technical Floating (0.00)
safeguarding people and property are discussed. Exercises apply	FET 289 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have
lecture subjects to realistic situations. Prerequisites: FET 111	written prior approval of the department chairperson.
FET 172 - Fire Alarm Design I(4:3:3)	FIN 100 - Intro to Financial Literacy(1:1:0)
Using computer-aided drawing, students prepare working	A study of the basics of finances. Topics to be discussed include income
drawing of fire alarm systems which comply with current codes	sources, purchasing power, financial decisions and planning, banking
and standards. Prerequisites: FET 120 and EDD 171.	procedures, risk management, buying and credit decisions, and savings
FET 189 - Approved Technical Elective(3:0:0)	and investing options. Prerequisites: Test score or MAT 005 or NCS 005 or MAT 012 or NCS 012 or MAT 119 or MAT 120 or MAT 125 or
Students may complete technical electives for which they have	MAT 130 or MAT 141 or MAT 150 or MAT 181 and Test score or RDG
written prior approval of the department chairperson.	005 or or RDG 051 or NCS 052 or ESL 032 or ESL 100 or RDG 120
FET 200 - Industrial Fire Hazards(4:3:3)	FIN 189 - Approved Technical Elective(3:0:0)
The industrial environment serves as a background for this study	Students may complete technical electives for which they have
of fire hazards, causes, and engineered prevention technologies.	written prior approval of the department chairperson.
Unique fire protection challenges are discussed and observed	
during field trips. The duties of the fire prevention and loss control manager are covered. The fire protection segments	FIN 221 - Money and Banking(3:3:0)
of the OSHA Act are emphasized. Prerequisites: FET 160	A study of the commercial and central banking systems with

roles of financial intermediaries and financial markets in US and global economies. Prerequisites: ECO 111 and ENG 121	This course introduces the field of food science and technology and reviews the sciences used to provide knowledge of food technology, the importance of food in providing proper nutrition and the opportunities for employment in the food industry. Prerequisites: TBD
FIN 241 - Finance	FSY 110 - Food Safety & Sanitation
optimum capital structure. Prerequisites: ACC 112 and ENG 121 FIN 289 - Approved Technical Elective(3:0:0)	practices, solve consumer problems concerning sanitation and public health issues related to foodservice establishments. This course will include a hands on learning laboratory. Students will
Students may complete technical electives for which they have written prior approval of the department chairperson.	prepare for the National ServSafe certification exam provided by the National Restaurant Association. Prerequiste: FSY 100
FIN 291 - Finance Honors	FSY 120 - Technology of Food Processing(3:3:0) N/A
budgeting, capital budgeting, debt financing, cost of capital risk analysis, and optimum capital structure. In addition to the course outline of FIN 241, Finance Honors includes an appropriate approved project. Prerequisites: ACC 112 and FIN 221 and ENG 121.	FSY 205 - Principles of HACCP
FSM 123 - Intro to Food Service	food safety hazards, establishing critical control points, monitoring procedures, verification, and record-keeping procedures within a food manufacturing industry. This course prepares students for International HACCP Alliance certification. Prerequisite: FSY 220 and FSY 225 and (((Test Score or RDG 120) and (Test Score or ENG 121)) or Test Score or ENG 101 or ENG 102 or ENG 122).
FSM 151 - Field Experience I	FSY 210 - Food Safety & Defense(3:3:0)
inventory controls and interviewing. Prerequisites: FSM 210	FSY 220 - Food Chemistry (4:3:2) N/A
FSM 152 - Field Experience II	FSY 225 - Microbiology of Foods(4:3:2) N/A
FSM 189 - Approved Technical Elective	FSY 290 - Food Safety Internship
FSM 210 - Quantity Food Production (3:2:3) Lecture and lab emphasis is on organization, staff requirements, and quantity foods preparation. Portion control, planning, and the basics	and food safety in the food production industry. Prerequisites: FSY 110 and FSY 120 and FSY 210 and FSY 220 and FSY 225
acquired in Introduction to Food Preparation are applied to quantity production in the kitchen, pantry, and bake shop. Prerequisites: CUL 121	FSY 291 - Seminar in Food Safety (2:2:0) This course is designed to facilitate the successful transition of potential graduates into a professional career or transfer to a bachelor's
FSM 265 - Effectv Food Serv Mrkt & Mngnt(3:3:0) Effective Food Service Marketing and Management is designed to introduce the fundamentals of food service marketing and kitchen facilities management to the student. It includes the foundations of	degree program in the field of food safety. The seminar will provide information to obtain a career in food safety, professional development skills, enhance interview and presentation skills. Corequisite: FSY 290
marketing in relationship to the consumer with emphasis on advertising, product promotion menu design and pricing strategies. Kitchen facilities management for the food service manager and the effects on marketing are explored. Prerequisites: ENG 121 and MAT 120	GEO 105 - Geology and the Environment
FSM 289 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	climate, energy and geologic resource development, population dynamics, risk, and related current issues in environmental geosciences. Prerequisites: MAT 181 and (((Test score or RDG 120) and (Test Score or RDG 121)) or Test score or RDG 120) and (Test Score or RDG 121)

FSY 100 - Intro to Food Science(3:3:0)

or ENG 121)) or Test score or ENG 102 or concurrent or higher)

This course introduces the field of food science and technology and

emphasis on the Federal Reserve Bank, the effects of changes

in the money supply, interest rates on the economy, and the

GER 189 - Approved Technical Elective	This course introduces the hardware and software components of Geographic Information System (GIS) and reviews GIS applications. Topics include data structures and basic functions, methods of data capture and sources of data, and the nature and characteristics of spatial data and objects. Upon completion, students should be able to identify GIS hardware components, typical operations, products/applications, and differences between database models and between raster and vector systems. Prerequisites: (Test score or MAT 005 or NCS 005 or MAT 090 or MAT 012 or NCS 012 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 181) and (Test score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test score or RDG 051 or NCS 051 or ENG 099 or ESL 100 or RDG 120). GMM 904 - GM Training Pipefitter
relevant to healthy as well as at-risk populations. Pre-requisites: Test score or RDG 120 and ENG 121 and PSY 121 and GER 201	Course credit awarded for successful completion of the GM apprenticeship pipefitter training program. Certification verifying journeyman status from the General Motors training facility is required.
GER 225 - Techniques of Elder Counseling	HDM 101 - Intro HmInd Sec/Emrgncy Mngt
care plans in a range of service environments. Students will acquire skills to complete assessments and develop and document service plans within an interdisciplinary team. Prerequisites: Test score or RDG 120 and PSY 121 and GER 201 and ENG 121 GER 243 - Directed Practice-Gerontology(6:1:15) The student is placed in an agency and/or residential care facility	HDM 103 - Info/Intel Shrg in HmInd Sec(3:3:0) This course introduces students to the systems and methods used by United State intelligence agents, the venues and jurisdictional limits of various agencies, and the legal basis for intelligence gathering, analysis, and dissemination for homeland security purposes. Prerequisites: (ENG 051 or test scores) and (RDG 051 or test scores)
which provides services to elders; skill development and learning will be experienced through supervised work with the elderly population. Prerequisites: CIS 107 and HMS 122 and HMS 123 and ENG 122	HDM 105 - Environmental Hazards(3:3:0) This course provides an overview of the environmental vulnerabilities of the United States and typical hazard mitigations
GER 289 - Approved Technical Elective	and responses to various threats to our environmental resources and infrastructures. Pre-requisites: (Test scores or ENG 051) and (Test scores or RDG 051) and HDM 101
GET 015 - Intro to Engr Fundamentals	HDM 110 - Issues Hmland Sec & Emg Mgt(3:3:0) This course covers pertinent Department of Homeland Security enabling legislation, historical and recent disaster events, and the lessons learned. Students study the need to balance homeland security with individual rights in the context of a free and democratic society. Prerequisites: (Test Score or ENG 051 or higher) and (Test Score or RDG 120) and HDM 101
GET 075 - Engineering Fundamentals	HDM 202 - HmInd Defn/Emerg Mgt 1st Rspnd(3:3:0) This course covers the roles, responsibilities, and proper procedures first responders should utilize at the scene of events to treat injured persons, secure scenes and minimize loss of life. Prerequisites: Test score of ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or RDG
GET 189 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	051 or NCS 052 or ESL 100 or RDG 120 and HDM 102 HDM 204 - All-Hzrds/Infra/Protection(3:3:0)
GET 289 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	This course emphasizes the plans and procedures implemented by emergency management agencies as they prepare for and respond to a variety of emergency situations. Students study the elements of critical infrastructure protection in the United States and plans for continuity of operations in a pre/post-disaster
GIS 101 - Introduction to GIS(3:2:2)	environment. Prerequisites: HDM 101 and HDM 103 and HDM 105

HDM 225 - Supervision Leadership in E M(3:3:0)

This course covers the essential elements and principles involved in the development, implementation, and evaluation of the plans and policies used by emergency planning and response agencies. Aspects of leadership, planning, exercise design and evaluation, and grant management are also discussed. Prerequisites: HDM 101 and HDM 103 and HDM 204 and (Test Score or RDG 120 and ENG 121 or higher)) or Test Score or ENG 102 or higher).

HDM 235 - Homeland Def/Emer Mgt Intrnshp(4:1:9)

The final stage of the student's program. The student is placed in an emergency planning/response agency or a private sector business concerned with continuity of operations in a pre-/post-emergency environment. Students will learn through supervised participation in the work of the agency. Emphasis is placed on hands-on application of skills and knowledge. Prerequisites: (Test score or ENG 121 or ENG 125) and (Test score or RDG 120) and HDM 204.

HDM 244 - Introduction to Terrorism.....(3:3:0)

This course examines the roots and impact of international and domestic terrorism. It also examines the various types of terrorism, such as religious, state-sponsored, and individual. Prerequisites: ENG 101 and PSY 121 and SOC 111

HIM 120 - ICD Coding I.....(4:3:3)

First in a two-course sequence: Introduces history and development of clinical vocabularies and classification systems. Principles and guidelines are introduced for using the ICD-9-CM system to code diagnosis and procedures in an inpatient setting. Disease and procedure coding is presented for selected body systems. Lab: Examples of patient records, and exercises using coding manuals and software tools, provide practice in coding and sequencing diagnosis and procedures. Prerequisites: BIO 108 and HIT 100.

HIM 121 - ICD Coding II.....(4:3:3)

This course builds on skill using the ICD-9-CM system to code diagnoses and procedures. Coding of conditions and related procedures not addressed in the previous course is covered, as are E codes, late effects and V codes. Issues of coding ethics and data quality as well as application of coding principles to electronic record systems are explored. Students will be introduced to related ICD-10 CM/PCS classifications. Lab: The lab component will provide practice in coding and sequencing diagnoses and procedures. Prerequisites: BIO 130 and HIM 120.

HIM 122 - CPT Coding(4:3:3)

Knowledge of clinical classification systems is expanded through presentation of principles of Current Procedural Terminology (CPT-4), used to code procedures performed by healthcare providers. Students assign procedure codes and apply guidelines for assignment of Evaluation and Management (E/M) codes and modifiers to case examples. The purpose and use of Healthcare Common Procedure Coding Systems (HCPCS) are reviewed. Application of coding principles to an electronic record system is explored. Prerequisites: HIM 121

HIM 130 - Legal Aspects of HIM.....(3:3:0)

This course focuses on legal and regulatory issues in healthcare with emphasis on their application to healthcare information inservices and documentation of care. Students explore the rights and responsibilities of providers, employers, payers, and patients in a healthcare context. Topics include legal terminology pertaining to civil liability and judicial and legislative processes. Legal and regulatory issues surrounding the confidentiality of information and laws and regulations addressing release of information and retention of records are also examined. Prerequisites: BIO 121 and HIT 100. Corequisites: HIM 120 and HIM 131.

HIM 131 - Health Informatics/HIM Systems.....(4:3:3)

This course focuses on health record and information systems. Other topics include compliance, HIPAA, and databases. The course also has a lab component that focuses on abstraction and analysis of health records and health information. Site visits to various types of healthcare facilities will provide a practical application of information discussed in the classroom. Prerequisites: HIT 100

HIM 222 - Healthcare Reimbursement.....(3:2:2)

Students explore reimbursement and payment methodologies applicable to healthcare provided in various U.S. settings. Forms, processes, practices, and the roles of the health information professional are examined. Concepts related to insurance products, third-party and prospective payment, and managed care organizations are explored. Issues of data exchange among the patient, provider, and insurer are analyzed in terms of organizational policy, regulatory issues and information management operating systems. The importance of coding integrity is emphasized. Prerequisites: HIM 121 and HIM 130 and HIM 131.

HIM 225 - Technical Practicum.....(3:1:6)

The focus of this course is on the application of the following concepts: data collection, data verification, filing, abstraction, professionalism, legal issues, HIPAA, release of information, documentation guidelines, Electronic Health Records (EHR), record storage and imaging, the Master Patient Index (MPI), and database usage. This clinical course will be based at a healthcare facility or in the health information management lab. Prerequisites: HIM 121 and HIM 122 and HIM 222.

HIM 230 - Supervision & Organization.....(3:3:0)

This course introduces the principles of organization and management/supervision and develops effective skills in leadership, motivation, and team building. It includes fundamentals of budgeting, equipment selection, marketing, and quality improvement. Prerequisites: HIM 225 and CIS 118.

HIM 231 - Quality Assessment.....(3:3:0)

This course introduces the principles of quality assessment process and develops skills in collecting and analyzing data. It includes quality improvement, risk management, case management, and accreditation quality improvement standards. Prerequisites: HIM 225 and CIS 118.

HIM 250 - Professional Practicum.....(4:1:8)

This is the course for students seeking a degree in Health Information Management. The components of health information analysis, information management, information systems, organization, and supervision are vital focus areas of this internship/experience. Students are required to complete a clinical at a healthcare facility. Prerequisites: HIM 225 Co-requisites: HIM 230 and 231.

HIS 111 - U. S. History: Pre-Civil War(3:3:0)

This course is a survey of colonial America and United States history through 1877. The course covers political, social, cultural, and economic factors that shaped the pattern of life in the United States through the period of Reconstruction. Prerequisites: Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or RDG 051 or NCS 052 or ESL 100 or RDG 120

HIS 112 - U. S. History: Post-Civil War.....(3:3:0)

This course is a survey of United States history through 1877 to present. The course covers political, social, cultural, and economic factors that shaped the pattern of life in the United States. Prerequisites: Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or RDG 051 or NCS 052 or ESL 100 or RDG 120

HIS 189 - Approved Technical Elective	are incorporated to aid the student in meeting the psychological, physical and environmental needs of the patient. Following successful completion of this course, the student will be qualified to take the Nurse Aid Competency Examination for certification. Prerequisites: (Test Score or MAT 012 or NCS 012 or MAT 015 or MAT 090 or MAT 119 or MAT 120 or MAT 130 or MAT 140 or MAT 141 or MAT 150
written prior approval of the department chairperson. HIT 100 - Intro to Health Information	or MAT 153 or MAT 181) and (Test Score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test Score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120)
Introduction to the health care field and health records with class and lab emphasis on the roles of health professionals, functions of the hospital health information department, content and analysis of health records in a variety of health care settings, storage and retrieval of health information and common registries. Prerequisites:	HLH 189 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
Test score or RDG 051 or ESL 100 or NCS 052 or RDG 120 and Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125	HLH 215 - Cardiovascular Monitoring
HIT 170 - Medical Coding Practicum	measures, and electrocardiographic interpretation used to treat the cardiac patient. Prerequisites: BIO 121 HLH 289 - Approved Technical Elective(3:0:0)
experience in medical coding applications. Prerequisites: HIM 120 and HIM 121. Co-requisites: HIM 122	Students may complete technical electives for which they have written prior approval of the department chairperson.
HIT 189 - Approved Technical Elective	HMS 120 - Direct Support/Cmnty Services(3:3:0) The course will provide an overview of client needs and types of disabilities; the types of services provided to meet
HIT 289 - Approved Technical Elective	client need and an overview of legal precedence and history of services. Diversity will be addressed as it applies to client history, program development, and societal trends.
HLH 100 - Intro To Health Careers	HMS 121 - Intro To Human Services
HLH 101 - Intro To Patient Care	HMS 122 - Theories of Counseling(3:3:0)
systems, universal precautions, and other routine patient care procedcures. Prerequisite: MAT 130 and BIO 120	This course is an overview of basic counseling theories and techniques in terms of the client-worker relationship. Prerequisites: Test score or RDG 120 and HMS 121 and PSY 121 and ENG 121
HLH 102 - Physical Activity for Health(1:1:1) This introductory health course is designed to promote regular physical activity as an important component of health and wellness. Students will learn the significant role exercise plays in the prevention of disease and will participate in a variety of exercise experiences. Students will identify appropriate physical activity goals and will create individual plans to incorporate these activities into a heaalthy lifestyle.	HMS 123 - Dynamics/Group Communication I(3:3:0) Students receive an overview of the theories, principles, and techniques of organization, leadership, and participation in the group process. Emphasis is placed upon the development of therapeutic communication skills. Prerequisites: Test score or RDG 120 and HMS 121 and PSY 121 and ENG 121
Prerequisites: Test score or ENG 005 or ESL 034 or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or RDG 005 or ESL 032 or RDG 051 or NCS 052 or ESL 100 or RDG 120	HMS 124 - Comm Living Skills/Supports(3:3:1) Students will learn to assess the need for and provide services that address: physical, personal, and household management; community
HLH 110 - First Aid, Safety & CPR	connections and networking; locating services - transportation, etc.; and self-advocacy skills. Other learning components will include researching community services and interviewing professionals and clients directly involved in the relevant issues in the field. Prerequisites: (Test score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test score or RDG 051 or
HLH 130 - Nurse Assistant Training (6:5:5) Students will learn to safely perform basic nursing assistant	NCS 052 or ENG 099 or ESL 100 or RDG 120) and HMS 120.
skills under the supervision of the licensed nurse in a health care facility. Communication, observation and documentation skills	HMS 125 - Assessment and Communication(3:3:1) Students will learn to encourage sensitive communication skills;

build a rapport with clients; take a person centered approach; use alternative communication technology; appropriately interpret and use assessments; and gather information to provide services tailored to the needs to the client. Additional learning components include site visits and interpreting assessments and writing a plan for practical applications. Prerequisites: (Test score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120) and HMS 120.

HMS 126 - Desgn/Evaluation of Services(3:3:1)

Students will review and analyze best practices; evaluate existing programs utilizing best practices; identify potential concerns and corresponding solutions; and design an activity program to successfully support a client to obtain maximum independence. Additional learning components include a project to design a new program or extend an existing program based on best practices. Prerequisites: (Test score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120) and HMS 120.

HMS 144 - Survey of Human Development(3:3:0)

A life-span approach to human development through examination of the physical, cognitive, psychological, and social processes and tasks associated with each stage in the life cycle. Emphasis will be placed on assessment of needs and common educational, social and psychological problems within a developmental context. Prerequisites: Test score or RDG 120 and HMS 121 and ENG 121 and PSY 121

HMS 189 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

HMS 211 - Marriage and the Family..... (3:3:0)

The course is an overview of the family social system, history of family research, mate selection, human sexuality, and the family's reaction to change. Prerequisites: Test score or RDG 120 and ENG 121 and PSY 121 and SOC 111

HMS 221 - Ethical Problems and Issues(3:3:0)

This course is provided to give students the tools needed to better clarify their own values as well as understand the basic moral problems and issues of the society that surrounds them. The course will encourage student contribution and confidence. Emphasis is on the development of a personal value system and the relationship of ethics to the Human Services profession. Prerequisites: Test score or RDG 120 and HMS 121 and ENG 121

HMS 223 - Social Policy/Program Planning(3:3:0)

The course reviews the nature of social policy and its historical development. Basic trends in the social and human services are related to political and social developments in the United States. An overview is provided of the policy making and planning processes. Prerequisites: Test score or RDG 120 and HMS 121 and ENG 121 and SOC 111 or PSY 225

HMS 225 - Interviewing/Counseling Skills.....(3:3:1)

An experiential course that focuses on helping skills needed in human services settings. The emphasis is on the practical acquisition of interviewing, counseling, and case management skills. Prerequisites: HMS 122

HMS 229 - Adult Development & Aging(3:3:0)

This course reviews physiological, cognitive, emotional, and social

experiences and changes across the adult lifespan. Emphasis will be placed on theoretical foundations of adult development, individual and diversity influences, and issues facing the aging adult in today's society. Prerequisites: Test score or RDG 120 and PSY 121 and ENG 121

HMS 243 - Directed Practice I.....(6:1:15)

The individual applies the values, concepts, and skills gained from courses to the actual process of helping people. The student is placed in an agency or organization to learn through supervised participation in the work of the agency. Emphasis is given to individual growth in self- awareness, interpersonal communication interviewing skills, introduction to the agency and client system. Prerequisites: Test score or MAT 012 and CIS 107 and HMS 123 and HMS 122 and ENG 122.

HMS 244 - Directed Practice II.....(6:1:15)

The individual continues to apply the values, concepts, and skills gained from courses to the actual process of helping people. Emphasis is placed on sharpening of skills and knowledge, use of self in the helping process, group process and use of social service system and community and resources. Prerequisites: HMS 243

HMS 289 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

HRI 101 - Introduction to Hospitality(3:3:0)

This course provides a general overview of the hospitality industry. Emphasis is placed on the variety of operations, diversity of management, personal opportunities, and market segments. Prerequisites: (Test Scores or MAT 015 or higher) and (((Test Score or RDG 051 or higher) and (Test Scores or ENG 051 or higher)) or Test Scores or ENG 090 or concurrent or ENG 091 or concurrent or higher).

HRI 112 - Principles of Hospitality Mgt.....(3:3:0)

A course designed as a guide for hospitality managers and management students who are or will make management decisions on a daily basis. All aspects of management are addressed with broad discussions of all the functions of a hospitality manager. Prerequisite: Test Score or RDG 051 and Test Score or ENG 051 and Test Score or MAT 016

HRI 189 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

HRI 210 - Beverage Management(3:3:0)

This course introduces a variety of beverages: wine, beer, distilled beverages, and low and nonalcoholic beverages. It covers the management of beverage facilities and equipment, the purchasing functions, the effective writing of beverage lists, internal control, cost control, and alcoholic beverage service. Prerequisites: HRI 101 or CUL 121

HRI 211 - Quantity Food/Menu Planning.....(3:3:0)

This course is the study of basic cooking skills in an institutional setting, It includes the preparaton of nutritionally balanced menus, keeping abreast of the continuously changing technology, and applying creative techniques to new dishes. Prerequisite: HRI 101

HRI 212 - Food/Beverage Cost Control.....(3:3:0)

This course investigates the principles of cost controls and their application to the hospitality industry. The flow of costs for beverages, food, and labor are discussed in the context of operational efficiency. Issues relating to fraud prevention are also

reviewed. Prerequisites: (Test scores or ENG 102 or higher) and (HRI 101 or CUL 121) and (Test scores or MAT 120 or higher) HRI 213 - Food/Beverage Purchasing(3:3:0) This course teaches the different types of organizations of purchasing departments in the hospitality industry. It outlines the responsibilities, relationships, functions, and	This course provides a practical approach to training employees in their industry and business environment. Students acquire the knowledge and skills necessary to understand the processes of training and development. Components of training design, including needs assessment, objectives, evaluation, and presentation styles are covered. Prerequisites: MGT 231 or MGT 231 concurrent.
duties of a purchasing agent. Prerequisite: HRI 101	HRM 231 - Practicum I
HRI 215 - Lodging Operations Management(3:3:1) Covers the functions and procedures used by management and administrative employees to operate a lodging facility	Management program consists of 240 hours of proven work experience in a hotel, restaurant, or club. Prerequisites: None
on a daily basis. Topics covered front office operations, operational statistics and reporting, needs planning and planning and procurement, staffing requirements, as well as typical day-to-day operational tasks. Prerequisites: HRI 101 and MAT 153 and (Test score or ENG 121 or ENG 125).	HRM 232 - Practicum II
HRI 216 - Property Management(3:3:0)	HRM 234 - Labor Management Relations(3:3:0) This course provides students with a basic understanding of
The goal of this course is to teach the student the basic skills of engineering, maintenance, and energy concepts in a hospitality establishment. Prerequisite: HRI 101	labor management relations. It focuses on the interaction between labor and management, collective bargaining, administration of agreements, grievance and arbitration with emphasis on analysis and discussion of cases. Prerequisites: HRM 231
HRI 219 - Innkeepers' Law	HRM 289 - Approved technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
hospitality industry. Prerequisites: HRI 101 and ENG 121 HRI 220 - Certified Hospitality Supervsr(1:1:0) This course provides the knowledge and practical skills needed for a managerial career in hospitality. It provides information on how supervisors should meet their responsibilities to management as	HTT 100 - Intro To Histotechnology
well as to employees, and how to carry out the full range of daily duties of the hospitality manager. Successful completion of the course leads to CHS certification. Prerequisites: HRI 101 and ENG 121	HTT 189 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
HRI 289 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	HTT 201 - Histology
HRM 189 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	on recognition, composition, and functions of the organs and tissues. Macroscopic and microscopic laboratory examination and evaluation of the specimens are included. Prerequisites: BIO 121 and HTT 100
HRM 210 - Organizational Staffing	HTT 202 - Histology Internship
HRM 222 - Employment Law	HTT 203 - Histology Internship II
as they affect the HR Professional's day-to-day job. Development of regulations are traced to their roots in various sources of lawmaking, for example: constitutional amendments, common law, relevant court decisions, legislative acts, and executive orders. Prerequisite: MGT 231	HTT 211 - Histotechnology Procedures I(3:2:4) An introduction to equipment and basic procedures used in the Histology laboratory. Theories and procedures for fixation, processing, embedding, and microtomy will be followed by laboratory experience. Prerequisites: HTT 100 and MAT 153 and CHM 110.
HRM 224 - Training and Development(3:3:0)	expensence. Frerequisites. HTT 100 and WIMT 135 and Offivi 110.

This course provides a practical approach to training employees

HTT 212 - Histotechnology Procedures II.....(3:2:3)

reviewed. Prerequisites: (Test scores or ENG 102 or higher) and

Part II of Procedures (HTT 211) - Introduction to advanced techniques and special procedures. Students will learn procedures for cytology, cytogenetics, muscle enzyme histochemistry, immunohistochemistry and molecular histology. The course will include tissue preparation, staining technology, quality control and trouble shooting, for these more advanced techniques. Prerequisite: HTT 211
HTT 220 - Histochemistry I(3:2:4) An introduction to the basic stains used by the histotechnician. Students

will study the changes in tissue that are associated with various disease states and will learn the usefulness of staining techniques in identifying disease processes. The theory of the most commonly used stains will be covered. Prerequisites: CHM 111 and HTT 100

HTT 221 - Histochemistry II(3:2:3) Continuation of HTT 220 Histochemistry I with an introduction to advanced histologic technology procedures. Topics included are immunohistochemistry, cytogenetics, flow cytometry, electron microscopy, and enzyme histochemical procedures. Prerequisites: HTT 220

HTT 289 - Approved Technical Elective.....(3:0:0) Students may complete technical electives for which they have

written prior approval of the department chairperson.

HVA 110 - Intro to HVAC.....(3:2:2)

A preparatory course for engineering technology students which includes design problems and study activities to help the student to conceptualize and communicate using technical science. mathematics, and computers. Laboratory emphasis includes computer literacy and programming in the BASIC language. The student will be introduced to concepts including energy. temperature, humidity, and conduction of heat. There will be overviews of HVAC related equipment and systems. Prerequisites: Test score or MAT 015 or MAT 016 and Test score or MAT 012

HVA 130 - HVAC Fund(3:2:2)

Objectives include calculation of building heating and cooling loads and familiarization with HVAC equipment and systems. The psychrometric chart will be used to determine properties of air/water vapor mixtures. Effects of envelope heat transfer, solar radiation, and processing of outside air will be determined. Prerequisites: Test score or MAT 075

HVA 131 - HVAC Fabrication Processes......(3:2:4)

A study of practical sheet metal work as it relates to HVAC installations. Topics include ducts, fittings, layout, seams, connectors, joints, and hangers. The operation of sheet metal fabrication equipment is learned through demonstration followed by handson shop projects. Welding, soldering, and brazing processes found in common HVAC installations are studied. Prerequisites: None

HVA 160 - HVAC Systems Design.....(5:4:2)

Study of the engineering principles and design criteria of basic HVAC systems. Topics include human comfort elements, psychrometric charts, construction materials, building heating and cooling load calculations, HVAC system components, piping and ducts design, industrial exhaust systems. Prerequisites: Test score or MAT 075 or MAT 181 or MAT 182 or MAT 281.

HVA 189 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

HVA 202 - Energy Conservation.....(4:3:2)

Techniques to reduce consumption of fossil fuels and electric power will be studied, including heat recovery, thermal storage, improved equipment and materials, operation and maintenance practices, energy waste elimination, and use of renewable energy sources. Economic aspects will be considered. The student will be expected to research literature for a course project. Prerequisites: HVA 225

HVA 217 - Refrigeration/Steam Fundmental.....(4:3:2)

Conservation of energy, including heat, work, and internal energy is applied to HVAC systems. Ideal models such as the constant pressure process, the isentropic process, and the Carnot cycle are used. Properties of liquids, liquid-vapor mixtures, and superheated vapors are determined and used in applications including vapor cycles, pipe flow, and heat transfer. Prerequisites: HVA 130 and PHY 171

HVA 225 - Systems Design....(5:4:2)

Techniques for load calculation, equipment selection, and duct design are applied in a residential project. Air ducts and water piping are sized by equal friction methods. HVAC design requirements of industrial facilities including computer rooms, clean rooms, laboratories, and manufacturing areas will be studied. Prerequisites: HVA 130 and MET 131

HVA 237 - HVAC Controls.....(5:4:2)

This course introduces HVAC Technology students to control theory, strategy, and applications for the HVAC field. Electric, pneumatic, and electronic systems and components are included. Aspects of safety, operation, and energy management are considered. Prerequisites: MAT 182

HVA 241 - HVAC Service.....(2:0:6)

The course involves recognition of the symptoms of malfunction, identification of the cause of the malfunction, and specification of remedial action for various types of systems and their components. Prerequisites: HVA 217 and HVA 225 and HVA 237.

HVA 251 - Systems Design Project(3:1:6)

HVAC design technology will be applied to a commercial or industrial project. There will be opportunities for small group interaction and development of problem solving skills. The project will be taken from inception through the design process, including written and graphic documentation. Prerequisites: HVA 217 and HVA 225 and HVA 237.

HVA 260 - Thermodynamic Applications(4:4:0)

Study of theory and principles of thermodynamics as applied to various engineering systems, including heat transfer through various surfaces, equipment efficiency, calculation of various gas cycles, steam turbine efficiency, refrigeration cycles, cooling tower requirements, system parameters for air conditioning systems, energy conservation procedures. Prerequisites: MET 250

HVA 289 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

IDT G07 - Modem Classroom Management(2:2:0)

The purpose of this course is to present effective techniques for eliciting appropriate social and academic behaviors in the traditional, blended, and online classroom. Several models for behavioral intervention in both traditional and non-traditional classrooms are examined, with special emphasis on the management of behaviors and habits that impede the learning process.

IDT G12 - Tech Enabled Assess Strategies(1:1:1) This course will introduce the student to the learning theories associated with technology enabled assessment strategies. The learner will focus on formal and informal assessment strategies and how assessment outcomes can be used to inform and improve instruction.	
IDT G21 - Instructional Design	
This course will enable learners to understand, explore, and experiment with foundational educational technology tools and techniques. Learners will not only learn how these applications function and work, but also how they can be leveraged within the learning environment. Topics include, but are not limited to: learning management systems, asynchronous and synchronous learning tools, audio and video production and editing, as well as how these applications are properly deployed in the learning environment. Prerequisites: None	
IDT G26 - Advanced Classroom Technology	
IDT G31 - Teaching with Technology	
IDT G32 - Implementing Eff. Learning Com	0)
IDT G36 - Educational Document Control(1:1: This course is designed to familiarize the learner with the elements of document and data control. Failing to understand how to effectively save, archive, organize, and deploy educational documents costs the average instructor 75 hours each school year. Through a combination of lectures, discussions, and practical exercises, the learners will apprecia the ease in which document and data control can be implemented.	of
IDT G39 - Virtual Learning Env in Ed(1:1: This course examines the impact of virtual learning environments on modem education. Sudents will learn how to navigate and access virtual learning communities, as well	0)

as how to leverage these environments in teaching.

This course focuses on the application of motivational

instruction. Participants study learning as a change process and

design instructional practices using the foundational theory and

methods of motivational interviewing. Prerequisites: None.

IDT G42 - Motivational Teaching.....(1:1:0)

T G43 - Crtve Cmns, Fair Use, & Cpyrt......(1:1:0) nis course will introduce the learner to the concepts and legislation verning copyright, fair use, and creative commons. The learner Il explore these rules and laws, as well as examine these statutes at effect their lessons and classes. Other key issues such as blic domain, file sharing, open access, creative commons d the redistribution of multimedia will also be explored. T G47 - Psych of the Online Learner(2:2:0) this course, the learner will explore the fundamental concept d principles impacting technology-enabled learning and struction. The learner will examine basic theories of education, ecifically the behavioral and cognitive theories, as well as how ose are altered in a technology enabled learning environment. e learner will also explore more recent concepts such as Brainsed learning and Multiple Intelligences. Finally, the course will view theoretical perspectives associated with technology and rning; investigate the role of cognition in learned behavior; aluate models of learning; investigate technologies influences on rning; and apply learning principles to improve instruction. T G58 - Fundamentals of Acad Advmnt(2:2:0) nis course examines the fundamentals of academic advising essential components of student engagement, retention, and ccess. Topics include developmental advising; research on ademic advising; technology and delivery systems; advising ills, including diverse populations; and evaluation, assessment, d reward systems for advisors and advising programs. T G59 - Instructional Strategies(2:2:0) nis course focuses on the fundamental principles of instructional ategies, lesson planning, and formative assessment. Learners study w to design lessons and units that engage students and maximize rning in face-to-face and online evironments. Prerequisites: None

Synchronous communication has the potential to increase individual participation and group collaboration that could not be easily achieved by an synchronous mode of communication. In this course, the learner will be presented with an overview of the underlying pedagogical assumptions behind asynchronous and synchronous teaching and learning. The learner will experiment with the multi-modal synchronous classroom, as well as learn about the tools and skill sets needed to utilize this medium effectively.

IDT G88 - Leveraging Soc'l Media for Lrn(2:2:0) This course is intended to introduce professional educators, at all levels, to the benefits of social learning. The course provides an in-depth analysis of the theoretical foundations of social learning	IMT 189 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
and covers social media tools and platforms used today.	IMT 211 - Mechanical Installation & Main(4:3:4) This course is directed toward the principles applied to the installation
IDT G98 - Conduct Dist Ed/Eval Peer Revw(1:1:0) This course is based on the Quality Matters (QM) peer review distance education course assessment model. QM is a faculty-centered, peer review process that is designed to certify the quality of online and blended courses. The peer review process is designed to promote and improve the quality of online education and student learning. Prerequisites: None	of mechanical devices through a review of the organizational concept. It stresses the importance of the maintenance function in the total operation of a facility. Special emphasis will be placed on maintenance job planning and scheduling, preventive maintenance, maintenance material control, and maintenance training. The importance of proper installation techniques will be included. Prerequisites: IMT 121
IDT G99 - Special Topic in Ed Technology(1:1:0) Special Topic courses are intended to cover advanced material outside of or beyond the scope of current course offerings. The student may take this course a maximum of twice, with an approved change of topic for each instance.	IMT 222 - Safety Health and Env. Regs
IET 150 - Computer Applications (3:2:2) This course is designed to teach the novice computer user how to do word processing, spreadsheets, and data base operations	IMT 289 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
all within the Windows environment. The Word processor to be used is Word 97. The spreadsheet and data base to be used is Microsoft Excel 97. Prerequisite: Test Score or MAT 012	IMT 290 - Industrial Maintenance Intshp(4:1:9) Applied experience through a supervised work situation, such as a campus repair shop, computer business, or industrial facility. Prerequisites: IMT 211 and (MET 252 or ELM 252).
IET 209 - Survey in Prod Plan & Cntrl	INT 189 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
the layout of a production line are covered. Prerequisites: (((Test Scores or RDG 120) and (Test Scores or ENG 121 or higher)) or Test Scores or ENG 102 or higher) and EDT 252 and EDD 273	INT 289 - Approved Technical Elective
IMT 110 - Intro to Industrial Technology(3:2:2) This course is designed as a preparatory to familiarize the student with the practices and principles of working in an industrial facility as a part of an industrial technical team working on processes and utilizing informatiom systems. Core topics include interpersonal communication, teamwork, basic statistical concepts, manufacturing information systems, fundamentals of manufacturing processes, and probability. Laboratory work in the topic areas will be included to illustrate concepts covered. Prerequisite: Test Score or RDG	ISY 111 - Ethics & the Information Age
051 and Test Score or ENG 005 and Test Score or MAT 005	ISY 143 - Intro to Information Security(3:3:0) This course introduces students to information security terminology, the legal environment, risk management, security technologies,
IMT 120 - Industrial Management Systems	and security planning and implementation. Students prepare for further study in computer forensics and cyber network protection. Prerequisites: (Test scores or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test scores or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120)
IMT 121 - Machines & Mechanical Devices(4:3:2) A course in the basic operating principles of machines and mechanical devices. The uses of the devices and machines employed in manufacturing, process control and other areas are introduced. Maintenance issues with respect to machines and devices are covered. The accurate alignment of drive components is discussed and proper alignment principles are presented. Prerequisites: IMT 110	ISY 150 - Introductory Scripting
	ISY 201 - Advanced Operating Systems(3:2:2) This course covers advanced topics in computer operating systems,

their design implementation, with a special emphasis on distributed computing. Important topics include portable operation systems, mobile operation systems, virtual memory management, file systems, security, networking, fault tolerance, parallel computing, message passing, and virtualization. Prerequisites: CIS 146 or CIS 192 ISY 243 - Information & Network Security(4:3:2) This course introduces computer information and networking security principles and relates them to other areas of information technology.	LAS 273 - Wave Optics & Lasers
Topics include how to harden a network, protect communications, and use cryptography and Public Key Infrastructure (PKI) to thwart attackers. This course prepares students to take an optional network security certification examination. Prerequisite: ISY 143	Students may complete technical electives for which they have written prior approval of the department chairperson. LNG 199 - Foreign Language Elective(4:4:0) This course introduces students to foreign language through communicative interaction. Students will develop comprehension
ISY 250 - Network Def & Countermeasures	(listening and reading) skills and expressive (speaking and writing) skills. They will acquire basic foreign language grammar and vocabulary needed for daily communication. Students will increase their awareness of foreign cultures. MAT 005 - Basic Math
ISY 251 - Hardening the Infrastructure	MAT 012 - Review of Math Fundamentals(4:4:0) A review of arithmetic, math in daily living, basic geometry, English/metric conversions, simple algebraic expressions, and simple algebraic equations. Prerequisites: Test score or MAT 005 or NCS 005 or NCS 012 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 181.
ISY 270 - Computer Forensics	MAT 015 - Elementary Algebra
This course covers advanced topics in information and network security. Students use knowledge, skills, and abilities to perform tasks related to the field of information security. This course is based on a sequence of hands-on laboratory exercises for teams of students and emphasizes defensive tools and techniques. Prerequisites: ISY 250 and ISY 251	MAT 110 - Math Course Success Strategies(1:1:0) This class is designed to improve learning and comprehension in mathematics courses. Students will develop strategies to improve listening, note taking skills, study techniques, test anxiety and test-taking skills.
LAS 189 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	MAT 119 - Applied Clinical Mathematics(3:3:0) This course presents an arithmetic review of practical
LAS 271 - Intro to Lasers	mathematics in various clinical settings. Topics include ratios and proportions, percentages, basic algebraic principles, introduction to statistical concepts and dosage calculations. Prerequisite: Test score or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 120 or MAT 130 or MAT 140 or MAT 150 or MAT 153 or MAT 181 or MAT 185.
LAS 272 - Geometrical Optics & Lasers	MAT 120 - Math for Behavioral Sciences(3:3:0) This course reviews and applies set theory, ratios and proportions, percentages, consumer mathematics, basic algebraic principles, and introductory statistical concepts. Pre-requisites: Test scores or MAT 012 or NCS 012 or MAT 015 or MAT 119 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181.
	MAT 125 Moth for the Trades (4.4.0)

MAT 125 - Math for the Trades(4:4:0)
This is a course designed to provide students with math skills that

are essential to a wide variety of industrial and technical trade areas. Topics include on-the-job applications of whole numbers, fractions, decimals, percents, measurement, and operations with signed numbers. Prerequisite: Test score or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 130 or MAT 140 or MAT 150 or MAT 153 or MAT 181.

MAT 129 - Math for Health Sciences(3:3:0)

Topics in this course include a review of arithmetic operations on real numbers, dimensional analysis, simplification and evaluation of algebraic expressions, solving equations and inequalities, solving application problems, exponents, and graphing. Prerequisites: Test scores or MAT 012 or NCS 012 or MAT 015 or MAT 119 or MAT 120 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181

MAT 130 - Algebra for Allied Health.....(4:4:0)

This course presents linear equations, quadratics, graphing, properties of exponents and logarithms, basic statistics, metrics, and right triangle trigonometric functions. Prerequisite: Test score or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 140 or MAT 150 or MAT 153 or MAT 181 or MAT 185.

MAT 135 - Biomedical Statistics(3:3:0)

This course stresses the use of biomedical data in studying methods of descriptive and inferential statistics, properties of the normal distribution, point and interval estimators, hypothesis testing of the population mean, and correlation and regression. Prerequisites: Test score or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 140 or MAT 150 or MAT 153 or MAT 181 or MAT 185.

MAT 140 - Essentials of College Algebra(4:4:0)

A course for students who have successfully completed a first course in elementary algebra. Topics include linear equations and inequalities, absolute value inequalities, functions, linear functions, polynomials, factoring, rational and radical expressions, rational and negative exponents, complex numbers, and solutions to equations and application problems involving linear, rational, radical and quadratic equations. Prerequisite: MAT 015 or (Test Score or MAT 075 or MAT 153 or MAT 181 or MAT 185 or NCW 045).

MAT 141 - College Algebra(3:3:0)

This course stresses essential skills and concepts needed for mastering problem-solving techniques. Topics include integers, polynomials, graphing linear equations and inequalities, systems of equations, matrix algebra, exponents, radicals, and complex numbers. Prerequisites: Test score or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 135 or MAT 140 or MAT 150 or MAT 153 or MAT 181 or MAT 182 or MAT 185 or MAT 251 or MAT 261 or MAT 281.

MAT 142 - Applied Geometry/Trigonometry(3:3:0)

This course stresses geometric and trigonometric skills. Topics include triangles, circles, polygons, basic trigonometric functions and their graphs, solutions of triangles, and complex numbers. Prerequisites: MAT 141.

MAT 143 - College Geometry(3:3:0)

This course is designed to cover the elementary concepts of plane Euclidean geometry and to help make the transition from algebra to precalculus. Special emphasis will be given to logical systems, proofs, angle relationships, parallel lines, similarity and circle relationships. Prerequisites: Test score or MAT 140 or MAT 153 or MAT 181 or MAT 185

MAT 150 - Business Mathematics(3:3:0)

This foundation course in business mathematics includes a study of percentage problems, simple and compound interest, bank reconciliations, installment buying, present value, payroll, taxes, trade and cash discounts, markup and markdown, depreciation, tables and graphs, and amortization. Prerequisite: Test score or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 130 or MAT 140 or MAT 153 or MAT 181 or MAT 185.

MAT 153 - College Math and Statistics.....(4:4:0)

A study of exponents, roots, radicals, quadratic equations, relations and functions, graphing, polynomial functions, systems of equations, inequalities, exponential and logarithmic functions, elementary statistics including organizing and presenting data, measures of central tendency and measures of variation. Prerequisites: Test score or MAT 015 or MAT 016 or NCW 045 or MAT 075 or MAT 090 or MAT 135 or MAT 140 or MAT 141 or MAT 181 or MAT 182 or MAT 185 or MAT 201 or MAT 251 or MAT 261 or MAT 281.

MAT 154 - Honors College Math/Statistics.....(4:4:0)

A study of exponents, roots, radicals, quadratic equations, relations and functions, graphing, polynomial functions, systems of equations, inequalities, exponential and logarithmic functions, elementary statistics including organizing and presenting data, measures of central tendency and measures of variation. Prerequisites: Test score or MAT 075 or MAT 090 or MAT 140 or MAT 153 or MAT 181 or MAT 185.

MAT 155 - Mathematics of Finance(3:3:0)

This course includes math of buying and selling, personal finance, depreciation, inventory control, accounting mathematics, financial statements and ratio analysis, annuities and sinking funds, insurance, securities, business statistics, and applied problems. Prerequisites: Test score or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 135 or MAT 140 or MAT 150 or MAT 153 or MAT 181 or MAT 182 or MAT 185 or MAT 251 or MAT 261 or MAT 281.

MAT 181 - Algebra and Trigonometry I(4:4:0)

A study of elementary functions including linear functions, quadratic functions, polynomial functions, exponential and logarithmic functions, and right triangle trigonometry. Prerequisites: Test score or MAT 075 or MAT 090 or MAT 140 or MAT 153 or MAT 185 or MAT 201.

MAT 182 - Algebra and Trigonometry II(4:4:0)

A study of circular and trigonometric functions, vector applications, complex numbers, simple curve sketching of algebraic and trigonometric functions, nonlinear systems, matrix methods, and properties of conic sections. Prerequisites: MAT 181.

MAT 185 - Precalculus.....(4:4:0)

This course is designed to integrate intermediate algebra, analytic geometry, and trigonometry with other college algebra topics through a functional approach as a preparation for calculus. Prerequisites: Test score or MAT 075 or MAT 090 or MAT 140 or MAT 153 or MAT 181 or MAT 182.

MAT 189 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

MAT 201 - Mathematics for Teachers I.....(4:4:0)

This course is designed to provide prospective teachers with the knowledge and skills needed to communicate mathematical concepts. Topics include techniques of problem solving, set theory, number theory, the real number system, elementary algebra, and an

introduction to geometry. Prerequisites: Test score or MAT 012 or NCS 012 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 141 or MAT 150 or MAT 153 or MAT 181 and Test score or MAT 015 or MAT 016 or NCW 045 or MAT 075 or MAT 141 or MAT 153	functions. Topics include techniques of integration, multivariate calculus, and applications from the business management and computer science fields. Prerequisites: MAT 261.
or MAT 181 or MAT 182 or MAT 251 or MAT 261 or MAT 281 MAT 202 - Mathematics for Teachers II(4:4:0)	MAT 263 - Principles of Discrete Math(4:4:1) This course is a study of sets, logic, induction, the integers, functions, sequences, counting, and an introduction to graph
This course is a continuation of MAT 201. Topics include areas and volumes of geometric figures, geometric constructions, measurement, introductory probability, and statistics. Prerequisites: MAT 201.	theory. Proofs will be emphasized throughout the course. Prerequisites: MAT 182 or MAT 185 or MAT 281
	MAT 271 - Probability and Statistics(4:4:0)
MAT 203 - Math for Teachers III(4:4:0) This course is a continuation of MAT 201 and MAT 202 and is	A study of descriptive statistics and sample methods, elementary probability, discrete and continuous probability
designed to enable preservice teachers to better teach mathematical concepts. Topics include polynomical, quadratic equations, systems of linear equations, the rectangular coordinate system, functions,	distributions, linear regression and correlation. Emphasis is on technical applications. Prerequisites: MAT 181
graphs of linear and quadratic functions, the use of functions as models, linear inequalities, consumer mathematics, and an	MAT 272 - Technical Statistics(3:3:1)
introduction to calculus. Prerequisites: MAT 201 and MAT 202.	A study of methods of inferential statistics as applied to technical problem solving. Topics include use of confidence
MAT 210 - Problem Solving Strategies(1:1:1)	intervals, determination of sample size, hypothesis testing of means, variances, independence, and single factor
The course is a study of the various problem solving strategies that are used in solving mathematical problems. There will be	analysis of variance. Prerequisites: MAT 271.
an emphasis on the use of these strategies with the content of	MAT 275 - Fund of Stats Quality Control(3:3:0)
a traditional secondary mathematics curriculum. Prerequisite: MAT 281 or MAT 282 or MAT 283 or MAT 288 or MAT 291.	A study of the practical aspects of quality control, including elementary statistical concepts, organization of data, control charts
MAT 251 - Finite Math(3:3:1)	for variables and attributes, process capability and acceptance plans for variables and attributes. Prerequisites: Test score or
A study of selected algebraic topics including mathematics of finance, systems of linear equations and matrix algebra,	MAT 012 and Test score or MAT 015 or MAT 016 or MAT 141
linear programming, properties of probability and probability	MAT 276 - Probability/Stats for Engr Std(4:4:0)
distributions. Markov chains and techniques of applied problem solving. Prerequisites: Test score or MAT 075 or MAT 090 or	Frequency and probability distributions, measures of
MAT 140 or MAT 153 or MAT 185 or MAT 261 or MAT 281.	central tendency and dispersion, regression and correlation analysis, quality control charts, and various statistical tests. Prerequisites: (MAT 181 and MAT 182) or MAT 185.
MAT 253 - Discrete Math(3:3:0)	Frerequisites. (WAT TOT and WAT TOZ) OF WAT TOS.
A study of discrete models, sets, functions, logic, mathematical induction, algorithms, recursions, relations, graphs, and	MAT 279 - Problem Solving Strategies(4:4:0)
trees and matrices. Prerequisites: MAT 153 or MAT 181.	This course is a study of the various problem solving strategies that are used in solving mathematical problems. There will be an
MAT 255 - Business Statistics I(3:3:1)	emphasis on the use of these strategies within the context of a traditional secondary mathematics curriculum. Activities include
A study of basic concepts of data organization, measures of central	group work, application of educational technology, oral and
tendency, variability, probability and probability distributions, sampling and sampling distributions, estimation dealing with population means	written presentations, and a compilation of a portfolio of problem solving strategy problems. Prerequisites: MAT 263 or MAT 281
and proportions of large and small samples, and hypothesis testing.	or MAT 282 or MAT 283 or MAT 285 or MAT 288 or MAT 291
Course will include techniques of applied problem solving involving computers. Prerequisites: MAT 251 or MAT 153 or MAT 181.	MAT 201 Coloulus I (4.4.4)
computers. Frerequisites. With 201 of With 100 of With 101.	MAT 281 - Calculus I(4:4:1) A study of functions, limits, and continuity, differential
MAT 256 - Business Statistics II(3:3:1)	calculus of algebraic and trigonometric functions with
A study of hypothesis testing of means and proportions, Chi- Square test and analysis of variance, regression and correlation analysis, time series analysis, index numbers, decision theory	applications, and an introduction to the development of the definite integral. Prerequisites: MAT 182 or MAT 185.
and non-parametric statistical testing, and techniques of applied problem solving involving computers. Prerequisites: MAT 255.	MAT 282 - Calculus II(4:4:1)
	Integral calculus of algebraic, trigonometric, exponential, and logarithmic functions with applications. Topics include methods
MAT 261 - Business Calculus I(4:4:0) Content includes solving mathematical models of real world	and application of integrations, infinite series, parametric equations, and polar coordinates. Prerequisites: MAT 281
phenomena including functions, graphs, limits, continuity, and	
the use of differentiation and integration to solve problems involving business management and computer science	MAT 283 - Calculus III(4:4:1)
applications. Prerequisites: Test score or MAT 140 or higher	A study of partial derivatives, multiple integrals, line integrals, and vectors. Prerequisites: MAT 282

MAT 285 - Introduction to Proof(4:4:1)

} 	abstract, proof based mathematics. The primary focus of the course will be the development of skills to read, understand, and produce proofs of mathematics statements. Topics which will be addressed include set theory, functions, relations, cardinality, the order properties of real numbers, least upper bound, greatest lower bound, the completeness axiom, and limits. Prerequisites: MAT 263 and MAT 281	MEA 150 - Medical Lab Procedures I
	MAT 288 - Linear Algebra	MEA 151 - Medical Lab Procedures II(4:3:3) This course will cover basic laboratory skills of the profession. Universal precautions will be integrated into testing in hematology, chemistry, urinalysis, microbiology, and serology. Competency
	MAT 289 - Approved Technical Elective	in phlebotomy is required. Prerequisite: Test Score or MAT 012 and MEA 150 and RDG 120 and BIO 100 and BIO 110
(MAT 291 - Ordinary Differential Equation	MEA 170 - Pharmacology for Medical Asst(4:4:1) This course is an introduction to chemical characteristics, actions, and uses of common prescription and over-the-counter drugs. Modes of contraindications are covered for each drug discussed. Prerequisites: MEA 120 and MEA 150 Co-requisites: MEA 125 and MEA 151
	MAT 292 - Engineering Math I	MEA 189 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
; ;	solutions of linear algebraic equations, Gauss elimination, vector spaces, subspaces, linear dependence, linear ordinary differential equations of 2nd order and higher, initial value and boundary value problems, eigenvalues, coupled linear ordinary differential equations, and nonlinear differential equations. This course includes	MEA 250 - Medical Transcription
1	problems and exercises drawn from the areas of circuit theory and mechanical oscillators. Prerequisite: MAT 283 or concurrent	MEA 255 - Comprehensive Med Transcript(3:2:2) Transcription of medical reports/correspondence related to patient care, content and format of medical documents using current word
(MEA 100 - Intro to Medical Assisting	processing software, and the effective use of medical references are covered in the course. Prerequisites: OAT 121 and BIO 100 and ENG 121
-	employment are examined. Prerequisites: (Test Score or ENG 121 or ENG 125) and (Test Score or ESL 100 or RDG 120)	MEA 270 - Medical Assistant Seminar(3:3:0) This course examines specialty areas of employment for medical assistants and reinforces roles, responsibilities and practice implications. Review for the Certified Medical Assistant (CMA) exam offered by the
(MEA 120 - Medical Office Procedures I(4:3:2) This course introduces the administrative (medical office) duties of a medical assistant including handling the telephone, managing accounts payable and receivable, managing a medical	American Association of Medical Assistants (AAMA) exam is included. Prerequisites: MEA 125 and MEA 151 Co-requisites: MEA 290
(office, medical coding and obtaining third party reimbursement. Prerequisite: RDG 120 and ENG 121 and OAT 121 and BIO 100.	MEA 280 - Med Transcription Internship
6	MEA 121 - Basic EHR	development of competent skills, confidentiality of the health records, as well as professional conduct. Prerequisites: MEA 255
i \ \	ncludes an introduction to the terminology and technology associated with the operational use of these records. It will provide the student with the necessary skills to perform these tasks in a medical office setting. Prerequisites: BIO 100 and (Test score or ENG 121 or ENG 125)	MEA 289 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
l	and OAT 121 and (Test score or RDG 120). Co-requisite: MEA 120 MEA 125 - Medical Office Procedures II(4:3:2)	MEA 290 - Medical Assistant Internship
6	This course introduces the students to skills necessary for working in a modern computerized medical office. They will use the computer to schedule and monitor appointments and will get more experience with he billing process. Prerequisite: MEA 120 Co-requisite: MEA 151	MET 115 - Intro Mechanical Engr Tech

MEA 150 - Medical Lab Procedures I.....(4:3:3)

and communicate using engineering graphics, mathematics, and technical science. Special emphasis is placed on computer

This course provides a transition from computational mathematics to

literacy by programming in BASIC language and using computer-aided design technology. Prerequisites: None.

MET 123 - Modern MFG Techniques.....(3:2:4) A study of modern manufacturing techniques including the care and use of hand tools, precision measuring tools, the selection of materials, proper use of machine tools that include: the lathe, drill press, milling machines, computerized numerical control and arc welding processes. Pre-requisites: (Test Score or MAT 012 or NCS

012 or MAT 015 or MAT 090 or MAT 119 or MAT 120 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181) and (Test Score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120).

MET 125 - Adv Manufacturing Techniques(3:2:4)

This course covers laboratory and lecture activities that include advanced welding, metal finishing methods, computer integrated manufacturing, abrasive machining methods, and other specialized machining processes. Safe working habits are stressed. Additional manufacturing material topics include discussion of ferrous and non-ferrous materials, composites, adhesives, plastics, heat treatment of steels, and advanced geometric dimensioning and tolerancing. Prerequisites: MET 123

MET 132 - Statics (3:3:1)

This course is an analytical study of the effects of forces acting on a body at rest, including the study of centroids, area moment of inertia, trusses, and frames. PREREQUISITES: MAT 181 and (PHY 205 concurrent or PHY 281 concurrent)

MET 140 - Vacuum Systems.....(4:3:2)

Vacuum Systems covers the theory and practice of vacuum as used in semiconductor manufacturing. This course includes vacuum principles. calculations related to vacuum practices, vacuum pumps, gauges and components, and leak detection. The laboratory portion of the course includes activities to develop skills in the operation of basic vacuum systems and vacuum components. Prerequisites: MAT 181 and CHM 100

MET 189 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

MET 234 - Statics/Strength of Materials.....(4:3:2)

The analytical study of forces, stresses, and strains acting in systems at rest, including concurrent and non-concurrent forces, centroids, moments of inertia, trusses, frames, and shear/moment diagrams; and tensile, compressive, direct and torsinal shear stresses, thin-walled pressure vessels, design of beams and columns under various loading conditions. Prerequisites: PHY 171

MET 235 - Computer Nmrcl Cntrl Machining(4:3:2)

CNC Machining is intended for the first-time user of CNC equipment. Machinists, machine operators, supervisors, engineers, and engineering students with some machining knowledge will benefit from this basic CNC course. The history, applications programming, and operations will be explored in the course of study. Prerequisites: MAT 120 and MAT 123

MET 237 - Adv Mechnical CAD with 3D(3:2:3)

A second level mechanical CAD course using Microstation software. Topics covered will include advanced 2D CAD commands, isometric drawing, and drafting in three dimension including wire frame and solid modeling techniques. Prerequisites: MET 131 and MAT 181

MET 241 - Fluid Mechanics(4:3:2)

This course covers physical properties of fluids, pressure and static forces, laminar and turbulent incompressible flow, conservation of energy and mass, design of fluid piping systems, energy losses, pump characteristics and selection and heat transfer. Pre-requisites: MET 132 and PHY 205

MET 242 - Strength of Materials.....(3:2:2)

Analysis of axial, shearing and torsional stresses and strains in machine and structural elements such as beams, columns and shafts under static, impact and dynamic loads. Also includes a discussion of thin-walled cylinders, joints, couplings, shear and bending moment diagrams, and the design of beams. Prerequisites: MET 132

MET 243 - Dynamics.....(3:3:0)

This course includes the motion of particles and rigid bodies, plane motion and Coriolis acceleration can help to determine the forces and torgues required to change motion through inertia, work-energy and impulse-momentum approaches. Elastic and inelastic impact, power and vibrations are also discussed. Pre-requisites: MET 132 and PHY 205.

MET 245 - Machine Design(3:3:0)

This course covers design principles and calculations appropriate to various machine elements including beams, bearings, bushings, shafts, power components, gears, cams, belts and flv-wheels, Prerequisites: MET 242 and MET 243 and ELC 248 and (MET 252 or MET 252 concurrent) and (MET 264 or MET 264 concurrent)

MET 250 - Thermodynamics.....(4:4:0)

Study of the theory and principles of thermodynamics including energy, work, heat, power; physical properties of materials, enthalpy, isentropic processes and the Carnot Cycle, phase diagram analysis, heat capacity, heats of fusion, vaporization, and combustion; air/ water mixtures, psychrometric chart. Prerequisites: PHY 172

MET 252 - Fluid Power.....(3:2:2)

A study of hydraulic and pneumatic systems for the transfer and control of power. Introduction to the electrical, pneumatic and hydraulic control of these power systems is included. Specific topics include pumps, actuators, conductors, system theory, system design, servo mechanisms, and fluid logic. The laboratory component simulates the set-up and trouble shooting of hydraulic and pneumatic systems with various types of controls. Prerequisites: PHY 111 or PHY 171

MET 264 - Material Science (4:3:2)

A study of the physical, chemical, mechanical properties of metals. ceramics, plastics, and other engineering materials. Specific topics include ferrous metals, non-ferrous metals, heat treatment, common polymers, microstrutural examination, composite systems and corrosion. The laboratory component, of the course instructs the student in a variety of standard methods for determining the properties of common materials. Prerequisites: MAT 182

MET 271 - Engineering Project(3:1:6)

This course covers small group design in various fields of engineering technology such as machine design, fluid mechanics, pneumatics, hydraulics, electro-mechanics and structures. Projects will be taken from inception through a complete design process, including cost analysis and final design report. Pre-requisites: MET 125, MET 241, MET 242, ELC 248 Co-requisites: MET 245

MET 289 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

MGT 148 - Culinary Supervisory Develpmnt(3:3:0) This course explores human resource management in the food service industry. Topics include legal issues, training, interviewing, and employee-employer relations. Prerequisites: (Test score or ENG	MIS 189 - Approved Technical Elective
090 or ENG 091 or higher) and (Test score or MAT 012 or higher).	MIS 220 - Management Information Systems(3:3:1)
MGT 189 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chair.	This course presents essential information, systems, concepts, and practices required to manage a modern organization. Topics focus on how Information Systems are causing changes in the organization and the operation of businesses and how information systems can increase the competitiveness of a business. Prerequisites: (BUS 101 or IET 141)
MGT 212 - Principles of Management	and (CIS 107 or IET 150) and (MGT 212 or IET 242 or OMT 100). MIS 289 - Approved Technical Elective(3:0:0)
organizing, staffing, motivating, controlling and utilizing strategies to deal with internal and external environment forces. Prerequisites: BUS 101 and (((Test score or RDG 120) and (Test Score or ENG	Students may complete technical electives for which they have written prior approval of the department chairperson.
121)) or Test Score or ENG 102 or concurrent or ENG 122).	MKT 189 - Approved Technical Elective(3:0:0)
MGT 213 - Problems in Management(3:3:0) This course examines the application of management concepts	Students may complete technical electives for which they have written prior approval of the department chairperson.
to cases simulating the social and technical aspects of utilizing resources to accomplish goals. Prerequisites: MGT 212	MKT 212 - Principles of Marketing(3:3:0) This course will survey marketing principles with an emphasis on how
MGT 214 - Supervisory Management	they affect both consumer and industrial buying behaviors. Topics include: marketing mix, pricing techniques under various market conditions, effect of supply and demand, channels of distribution,
the first-level supervisor from understanding people, their problems, and how to motivate them. Specific areas covered are time management, interviewing, discipline and techniques of training. Prerequisites: BUS 101 and ENG 121	marketing research, brand policy and government regulation of marketing. Pre-requisites: (Test score or ENG 121) and (Test score or MAT 015 or MAT 090 or MAT 135 or MAT 140 or MAT 141 or MAT 153 or MAT 181 or MAT 182 or MAT 185 or MAT 251 or MAT 261 or MAT 281) and ECO 111 and (BUS 101 or HRI 101 or ENT 101)
MGT 215 - Office Management	MKT 213 - Problems in Marketing(3:3:0)
relate to the office environment and focus on the role of the office manager. Prerequisites: BUS 101	Principles mastered in MKT 212 Principles of Marketing applied to marketing situations and problems through the use of written and oral case study analysis and presentation. Prerequisites: MKT 212
MGT 218 - Small Business Management(3:3:0) This course presents practical approaches to managing in a small	MKT 214 - Advertising and Promotion(3:3:0)
business environment including: selecting a type of business,	This course, an overview and application of advertising and
obtaining and maintaining human resources, planning and organizing daily operations, developing operational requirements and locating sources, basic accounting and financial control, marketing	promotion principles, introduces concepts of planning, advertising, research, artistic, creative, and psychological aspects to advertising as well as other promotional activities. Prerequisites: MKT 212
considerations, business location and layout, and employee leadership. Prerequisites: Test score or ENG 121 or ENG 125 and MGT 212	MANT O4C Detailing (0.0.0)
MGT 231 - Human Resource Management(3:3:0)	MKT 216 - Retailing(3:3:0) The student will examine changes in marketing and consumer demand for goods and services. Principles of retailing, its role
The management of human resources focusing on selection, training, motivation, remuneration, and management-unions relationships is studied. Prerequisites: (BUS 101 or IET 141) and (MGT 212 or IET 242 or OMT 100)	in the economy, emerging trends, consumer behavior, customer satisfaction, merchandising and service strategies, and legal and ethical considerations are presented. Prerequisites: BUS 101 and MKT 212.
, ,	MKT 217 - E-Marketing Fundamentals(3:3:1)
MGT 289 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	This course explores web marketing including internet marketing strategies and performance metrics, on-line design principles, and on-line customer relationships. Students will complete various
MGT 291 - Management Honors(3:3:0) Introduction to the management field, presenting a systemized	hands-on projects related to building and managing a sucessful on-line marketing operation. Prerequisites: MKT 212 and CIS 107.
body of knowledge through the functions of planning, organizing, staffing, motivating, controlling, and utilizing strategies to deal	MKT 219 - Sales & Sales Management(3:3:0) An introduction to the basic principles of sales, including prospecting,
with internal and external environment forces. Students will	identifying customer wants, needs, and buying motives; creating
apply the above concepts through a variety of prospects and/ or computer exercises or simulations with an appropriate project. Prerequisites: BUS 101 and ENG 121 & MAT 255	effective sales presentations and demonstrations; handling buyer resistance; closing the sale; providing after sales support; and managing a sales staff. Prerequisites: BUS 101 or ENT 101

MKT 289 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	identification and antibiotic studies of bacteria of clinical significance. Prerequisites: BIO 120 and BIO 121 and (CHM 110 or CHM 150)
MKT 291 - Marketing Honors(3:3:0) A survey of marketing principles with an emphasis on how they affect both consumer and industrial buying behaviors. Topics include marketing mix, pricing techniques under various market conditions,	MLT 251 - Clinical Microbiology II
effect of supply and demand, channels of distribution, marketing research, brand policy, and government regulations of marketing. Students will apply the above concepts through a variety of prospects and/or computer exercises or simulations, with an appropriate project. Prerequisites: BUS 101 and ECO 111 and ENG 121 and MAT 255	MLT 260 - Immunology
MLT 101 - Intro to Med/Clinical Lab Tech(3:2:2) This course is designed to give an overview of clinical laboratory science to include basic skills, procedures, laboratory safety, use and care of laboratory equipment, laboratory settings, accreditation and certification. No prerequisites are required. Prerequisite: None	disease states. Student laboratory is used to provide experiences in fundamental serology/immunology techniques. Prerequisites: (Test score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120) and (Test score or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119
MLT 120 - Hematology I	or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185) and BIO 120. MLT 261 - Blood Banking(4:3:3) The course covers theory of the immune response and the use of
practical application of instrumentation used in the hematology lab are covered in the lab. Pre-requisites: Test Score or RDG 051 and Test Score or ENG 051 and Test Sore or MAT 012. MLT 121 - Hematology II(4:3:3)	antigen-antibody reactions in the diagnosis of disease. Serological characteristics and clinical significance of blood group antigens and antibodies that are important in therapeutic and diagnostic procedures in the blood bank are included. Prerequisites: MLT 260
The course covers special hematologic procedures, coagulation, and blood disorders. Practical application of instrumentation used in the hematology lab is included. Prerequisites: MLT 120	MLT 289 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
MLT 130 - Hematology for the Vet Tech(4:3:3) Normal maturation, morphology, function of blood cells, and hemostasis as well as qualitative and quantitative changes that occur are included in this course. Venipuncture techniques and the practical application of instrumentation used in the veterinary hospital are covered in lab. Prerequisites: VET 101 and VET 102.	MLT 291 - Clinical Practicum
MLT 189 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	phlebotomy. Prerequisites: MLT 271 and MLT 221 and MLT 251 MTS 189 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have
MLT 220 - Clinical Chemistry I	written prior approval of the department chairperson. MTS 289 - Approved Technical Elective
MLT 221 - Clinical Chemistry II	Designed for the non-native speaker of English who has English language fluency, this course focuses on the complex grammatical structures of English and applies those structures to writing needed for college level studies. Prerequisite: Test score or completion of secondary school in the United States.
MLT 250 - Clinical Microbiology I	NCJ 120 - Child Care Adm Business Issues(1:1:0) This course is designed to provide students with information on the business aspects of administering a child care center. Students will gain experience in areas of licensing requirements, legal issues effecting childhood programs, marketing the center, and financial planning and application. Prerequisites: None

NCJ 121 - Child Care Adm Human Relations(1:1) This course is designed to provide child care administrators with an opportunity to explore and implement specific strategies for	: 0)
mproving working relationships with staff and families within the	
vork setting. Students will gain skills to conduct effective staff neetings, discover leadership styles, practice conflict resolution,	
and identify staff development needs. Prerequisites: None	
NCJ 122 - Child Care Adm Prog Dev & Eval(1:1:	: 0)
This course is designed to provide child care administrators with In opportunity to explore methods of program evaluation and	
echniques for program improvement to better serve children and to	
lign their programs with community needs. Prerequisites: None	
NCJ 125 - School Age Development(1:1	: 0)
Students will study the major theories of child development, and current research relating to adolescence. Special behavioral	
considerations and disability awareness will be covered.	
tudents will reflect on best practices as they relate to program oals, procedures and policies. Prerequisites: None	
ICJ 126 - School Age Comm Strategies(1:1) Students will practice effective communication with children, staff,	:0)
arents and school personnel, and will learn some basic conflict	
esolution and peer medication techniques. Prerequisites: None	
CJ 127 - School Age Curr Dev Programmng(1:1	:0)
Students will define their personal philosophy of school-age	
are, formulate program goals, policies, and procedures, and reate a developmentally appropriate curriculum for program	
nplementation or improvement. Prerequisites: None	
CN 103 - Shop Applications for Computer(3:2	:2)
This is an introductory course in modern personal computing. The	
kills learned in this course are computing survival skills for the mode Idustrial work force. These skills will also assist the student in the CN	
nd Graphics CAD courses. The covered topics include: keyboarding	
kills, basic MS-DOS commands, file manipulation, file transfer, basic	
indows and a brief introduction to word processing and spread shee troduction to selected software used on local shop floors will be	IS.
cluded in the course of study. Prerequisite: Test score or MAT 012	
CN 104 - Geometric Dimension/Tolerance(2:2	:0)
A study of practical applications of the industry standard Geometric	
imensioning and Tolerancing Standard ANSI Y14.5M- 1994 or ne latest revision thereof. Topics covered included tolerancing,	
atums, symbols, terms and locations. The majority of time will be	
ent interpreting drawings and relating these interpretations to	
e manufacturing floor. Prerequisites: MET 131 and MET 123	
CN 105 - Machine Shop Practicum I(4:2	:5)
This course will supplement the hands-on skills learned in MET 23. Under the tutelage and supervision of the instructor, students	
ill use typical machine shop machines to build and inspect actual	
arts. The machines covered include engine lathes, vertical milling	
nachines, bench grinders, drill presses, band saws and cut-off saws. he instructor will also demonstrate proper uses of typical measuring	
nd inspection devices. Machine Shop Practicum I and Machine	
han Dractioum II are the courses where intermediate and advanced	

Shop Practicum II are the courses where intermediate and advanced

Prerequisites: Test score or MAT 015 or MAT 016 and MET 123

machine shop skills, not addressed in other classes, are to be covered.

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106 - Machine Shop Practicum II.....(4:2:5) is a one-semester course designed to provide the student the opportunity to refine skills learned in other classes and velop more advanced skills that are prevalent in modern nine shops. Safety for the operator, machine and others will osely monitored. Pre-requisites: MET 125 and NCN 105 245 - Intro to Polymer Science(3:3:0) course will include the molecular structure, synthesis characterization of synthetic polymers. In addition, the ue thermomechanical, electrical, and solution properties olymers will be studied. Prerequisites: CHM 240 005 - Basic Math Review Lecture.....(1:1:0) review course is designed for the college student who s a rapid review in basic numerical processes with e numbers, fractions, decimals, ratios, proportions percents and their applications. (Credits do not apply aduation requirements.) Prerequisite: Test score 012 - Math Fundmnt'ls Review Lecture.....(1:1:0) review course is designed for the college student who needs a rapid w in basic numerical processes with whole numbers, fractions, nals, ratios, proportions, percents, geometry, measurement, signed bers, solving equations and their applications. (Credits do not apply aduation requirements.) Prerequisite: Test score or MAT 005 051 - Pre-Tech Writing Review.....(1:1:0) pid review course designed to provide reinforcement in writing before taking English Composition. Topics include sentence ture, usage, and essay development. (Credits do not apply to uation requirements.) Prerequisite: Test score or ENG 005 **052 - Pre Tech Reading Review**(1:1:0) 107 - Introduction to Computers.....(3:3:0)

pid review course designed to provide reinforcement in bulary, comprehension skills, and reading flexibility before g Critical Reading and Thinking. Prerequisite: Test score

course provides a basic introduction to microcomputers. hasis will be placed on students becoming familiar with ardware, the Windows operating system, and word essing and spreadsheet packages. Prerequisites: None

110 - Biotechnolgy Summer Exp.....(1:1:1) course will cover basic topics and techniques of biotechnology. s may include DNA and protein structure and separation, erial transformation, polymerase chain reaction, genetic ases, forensics, and genetically modified organisms. Laboratory riments will be an integral part of this course. Prerequisites: score or RDG 051 or ESL 100 or RDG 100 and Test score IG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125

115 - Topics in Health Care.....(1:1:0) This course will investigate the subject of health care disparities in the United States. Topics may include historical biases, issues affecting access to health care, community health care attitudes, research on health care and treatments, and the effect of the genetic background of various ethnic groups on health. Prerequisites: Test score or RDG 051 or ESL 100 or RDG 120 and Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125

NCW 040 - Chemistry Mathematics(1:1:0) This course is designed for students who will benefit from a refresher in the basic mathematics required for chemistry. The	and radioassay procedures. Prerequisites: NMT 202 Corequisites: NMT 212 and NMT 226 and NMT 297.
course emphasis includes algebraic techniques, logarithms, ratios and proportions. Prerequisites: Test score or MAT 012 or NCS 012	NMT 211 - Scan Reading I(1:0:3) In the review and interpretation of studies performed, the student is able to see directly how the work accomplished each day affects
NCW 090 - Intro to College Rhetoric	the overall patient diagnosis. Prerequisites: NMT 115 and BIO 121 and NMT 222 Co-requisites: NMT 201 and NMT 295
of this course enables students to move directly into Composition. Additional assistance is available in the Learning Assistance Center and Writing Center. Prerequisites: Test score or ENG 051	NMT 212 - Scan Reading & PET/CT(1:0:2) A continuation of NMT 211 Scan Reading & PET/CT. In the review and interpretation of studies performed, the student
NCW 091 - Intro to Textual Analysis	is able to see directly how the work accomplished each day affects the overall patient diagnosis. Prerequisites: NMT 211 Co-requisites: NMT 203 and NMT 226 and NMT 297
outlined in Unit 4 of RDG 051, Pre-Tech Reading. Successful completion of this course enables students to move directly into Critical Reading and Thinking. Additional assistance is available in the Learning Assistance Center and Writing Center. Prerequisites: Test score or RDG 051	NMT 222 - Nuclear Physics
NFD 101 - New Faculty Development(2:2:0) This course provides an orientation to effective instruction at Delaware	and products, half-life, interaction of radiation with matter, and dosimetry. Prerequisites: NMT 101 and (PHY 112 or PHY 205)
Technical Community College. Participants will be provided with an overview of our institution's history, mission, values, academic philosophy and standards, and issues/topics important for new faculty to understand. Course topics include but are not limited to: Middle States Characteristics of Excellence, institutional effectiveness (including planning and assessment), effective advisement, student success, student engagement, instructional strategies, emotional intelligence, information literacy, articulation, FERPA, copyright, and HEOA legislation.	NMT 223 - Nuclear Med Instrumentation
NMT 101 - Patient Care for the NMT (2:1:1) N/A	An introduction to radiopharmaceutical synthesis, sterility testing, quality control, mechanisms of radionuclide localizations, and governmental regulations. Prerequisites: CHM 111 and NMT 115 Co-requisites: NMT 201 and NMT 295
NMT 115 - Intro to NMT with Clinical Lab	NMT 226 - Radiobiology/Protection
NMT 121 - Computers & Informatics (2:2:0)	government regulations related to patient, employee, general public, and environment. Prerequisites: NMT 222 and NMT 223 and NMT 224 Co-requisites: NMT 203 and NMT 297
NMT 189 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	NMT 289 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
NMT 201 - Nuclear Medicine I	NMT 295 - Clinical Internship I
NMT 202 - Nuclear Medicine II	NMT 296 - Clinical Internship II
NMT 203 - Nuclear Medicine III	experience. Prerequisites: NMT 201 and NMT 295 and NMT 211 Co-requisites: NMT 202 and NMT 212 and NMT 223 and NMT 224
	NMT 297 - Clinical Internship III w/CT(6:0:32)

Provides advanced training in the field of Nuclear Medicine Technology by rotating through each section of the affiliate hospitals. Administration, clinical procedures, equipment operations, and health physics will be mastered by supervised hands-on experience. Practicum evaluation of computer techniques and programs will be emphasized. Prerequisite: NMT 296 Co-requisites: NMT 203 and NMT 212 and NMT 226

NRG 100 - Exploring Eng & Sustainability.....(1:1:1)

This course provides an overview of sustainable design practices, energy systems, renewable energy technologies and their current applications. Emphasis will be placed on energy consumption, production, efficiency, and conservation. Prerequisites: (Test score or ENG 005 or ENG 006 or ENG 051 or ENG 099 or NCW 090 or ESL 034 or ESL 100 or ENG 121 or ENG 125) and (Test score or RDG 005 or ENG 006 or RDG 051 or ENG 099 or NCS 052 or NCW 091 or ESL 032 or ESL 100 or RDG 120) and (Test score or MAT 012 or MAT 015 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 150 or MAT 181).

NRG 101 - Intro to Energy Management(3:2:2)

This course is an introduction to the practice of energy management. Specific topics include career opportunities, working in teams, introduction to renewable and nonrenewable energy sources, energy end uses, unit conversion, basic energy physics, solving energy efficiency problems, and use of calculators and computers as tools for solving these problems. Prerequisites: (Test score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120) and (Test score or ENG 051 or EN

NRG 110 - Construction Standards(2:1:2)

This course will investigate industry standards as applied to modern building construction. The student will be introduced to OSHA regulations pertinent to the construction industry to assure safety in the installation of solar photovoltaic and solar thermal systems. Handson use of tools, methods and materials common to light construction will be introduced. Prerequisites: (Test score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120) and (Test score or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 182 or MAT 185 or MAT 281).

NRG 111 - Res/Light Comm Energy Analysis(2:2:1)

Topics include the following: residential/light commercial heating systems; heat transfer through building envelope; degree days; sources of internal heat gains; heat loss calculations, indoor air pollution; codes and regulations. Spreadsheets will be used. Prerequisites: PHY 111 and NRG 101 and NRG 103.

NRG 123 - Fundamentals of Control System(3:2:3)

This course introduces the concepts of building automated control systems. Topics include sensors, controlled variables, devices, controllers, and signals with an emphasis on design characteristics, sensor calibration, and maintenance of major components. Control drawings, schematics, and process and instrumentation diagrams are introduced. Pre-requisites: MAT 140 and NRG 140

NRG 124 - Energy Efficient Methods(3:2:2)

This course covers the physics and calculations used in energy analyses including the basics of alternating current (AC) and direct current (DC) power, electromagnetism, motor operation, single- and three-phase power calculations, as well as inductive and capacitive reactance as it applies to power factor. Topics

include interpolation and extrapolation methodology used in energy calculations. Prerequisites: NRG 101 and OAT 152 and MAT 140.

NRG 131 - Lighting Fundamentals.....(2:2:1)

Topics include assessment of quantity and quality of light, light sources, luminaries, lighting controls, manufacturer lamp and interactions, retrofit opportunities, cost savings analysis, and lighting codes/regulations. Course requirements include a directly supervised lighting audit project. Prerequisite: PHY 111

NRG 140 - Commercial Building Systems(3:2:2)

This course introduces plumbing; electrical; lighting; life safety; and heating, ventilating, and air conditioning (HVAC) systems in commercial buildings. Emphasis is placed on the performance characteristics and maintenance requirements of these systems as they drive control requirements. Various sequences of operation and maintenance procedures are covered. Pre-requisites: Test score or MAT 015 or higher

NRG 142 - Energy Accounting.....(2:2:0)

Course will include review of energy units, data gathering for energy accounting utillity rates and schedules, energy data organization, adjusted baselines, cost avoidance, load factor, data analysis, data presentation, use EPA's Portfolio Manager software. Prerequisites: OAT 152

NRG 154 - Alternativ Energy Technologies.....(2:2:1)

A survey of the sources of energy that may be used to increase energy supply. Included are geothermal, wind, low head hydro. solar and biomass. Environmental, social and economic advantages of each source are assessed. Prerequisites: OAT 152 and (MAT 140 or MAT 181 or MAT 182 or MAT 185 or MAT 281).

NRG 200 - Solar Energy Systems(2:2:1)

Solar Energy Systems is a course that details the resources and movement of the sun. Students will determine the sun hours for a given location and time. Students will use tools and associated software to properly perform a complete site analysis. Prerequisite: NRG 154

NRG 201 - Photovoltaic Systems I(4:3:2)

This course covers the fundamentals of photovoltaic (PV) modules, including how a solar cell coverts sunlight into electricity. The system components of a PV system, including the role of modules, inverters, and charge controllers, are discussed. Students size PV systems for a variety of uses. Prerequisite: NRG 154 and NRG 200 or concurrent

NRG 202 - Photovoltaic Systems II(3:2:2)

This course covers the design of both the electrical and mechanical systems required in photovoltaic systems. Secondary components required in photovoltaic (PV) systems and how all parts are integrated into the overall system are explored. Troubleshooting and resolving typical problems that can occur when installing PV systems are discussed. Prerequisites: NRG 110 and NRG 201 and ELC 125

NRG 203 - Cncpts of Solar Thermal Design(3:2:2)

This course introduces the concepts of solar heating design, installation, and operation. Design characteristics, components, operation and maintenance of major components are covered. Site evaluation, codes and regulations, system selection, and planning are emphasized. Prerequisites: NRG 110 and NRG 200

NRG 204 - Coop Ed:Renewable Energy Solar(3:0:9)

The Renewable Energy-Solar Cooperative Education course will provide ways for students to increase their awareness of industry expectations, as well as develop job search tools and skills. The content

is designed to help students present themselves to employers in a competent and professional manner and to move initially into their Cooperative Education; then into their professional careers. Students will work in a Renewable Energy related Cooperative Education job for a minimum of 144 hours. Prerequisites: NRG 110 and NRG 201

NRG 206 - Co-op Ed: Energy Management.....(3:0:9)

The Energy Management Cooperative Education course provides practical field experience in the energy field. Prerequisite: NRG 124

NRG 207 - NABCEP Solar Entry Level Prep(1:1:0)

This course is a review for the North American Board of Certified Energy Practitioners (NABCEP) Entry Level Exam. Prerequisites: NRG 110 and NRG 201

NRG 209 - BAS Co-operative Education(3:0:9)

This course provides the student with practical experience in the building automation system field. Prerequisites: NRG 123 and ACR 121

NRG 212 - Commercial Energy Use Analysis.....(3:2:2)

This course applies skills learned throughout the energy management program to a commercial building energy audit. It includes analysis of all key building components including envelope, HVAC systems, lighting systems, and operation and maintenance procedures. The analysis includes recommendations for upgrades and the cost savings associated with those upgrades. Prerequisites: NRG 124 and NRG 142 and ACR 222 and NRG 233 and ENG 102 or concurrent

NRG 213 - Building Energy Simulations(4:3:3)

Building Energy Simulations provides students with direct, hands-on experience with widely used building energy analysis tools. Students will learn about the program's basic modeling assumptions and build a series of increasingly complex models that explore the various features and capabilities of the building energy simulation software. Students will also develop a calibrated energy simulation of an existing building and then simulate potential energy benefits of various retrofitting measures to the building. Pre-requisites: (NRG 212 or NRG 212 concurrent)

NRG 223 - Energy Control Strategies(3:2:2)

Topics include building system control theory and sequences. Controlled device selection criteria are discussed and the effects on system performance are analyzed. An emphasis is placed on identifying and understanding control strategies related to HVAC equipment and components. Modifications in control sequence of operations are evaluated and calculations are employed to estimate energy savings. Students complete an energy efficiency controls calculation project. Prerequisites: NRG 124 and NRG 222

NRG 232 - Lighting Applications(2:2:1)

This course teaches lighting applications for different building types. Students will critically evaluate lighting systems, luminaries and associated components and perform various types of illuminance calculations. Students will work effectively as a member of a team in the development of lighting audits with potential energy conservation methods from various lighting measures Prerequisites: NRG 131 and MAT 140 or MAT 181 or MAT 182 or MAT 185 or MAT 281.

NRG 233 - Lighting Fundmt & Applications.....(4:3:2)

This course examines fundamental lighting concepts and their utilization and applications within the built environment. Students identify and evaluate the various quantitative and qualitative characteristics of light sources and luminaires, as well as perform various types of illuminance calculations. Student teams will

develop lighting audits with potential energy conservation methods from various lighting measures. Prerequisites: (PHY 111 or PHY 205) and (Test scores or MAT 140 or MAT 181 or MAT 185)

NRG 241 - Energy Investment Analysis(2:2:1)

A student in this course will learn to construct spreadsheets to analyze energy investment alternatives. Topics include: interest, simple payback and life-cycle analysis, time value of money, cash flow equivalence, cost- benefit analysis, effects of tax credits, depreciation, inflation and/or escalating fuel costs on energy investments, and cost estimating procedures. Prerequisites: NRG 111 and OAT 152

NRG 245 - Building Systems Integration.....(3:2:2)

This course covers the application of controls and networking fundamentals to integrate access, lighting, environmental control, and fire alarm management building systems into a functional building operating system. Emphasis is placed on alarm reporting and remote energy management capabilities. System and building commissioning processes are also covered. Prerequisites: NRG 123 and CEN 126

NRG 253 - BAS Capstone.....(3:2:4)

Students assemble and install a control system and operator interface to manage commercial building mechanical and electrical systems such as heating/ventilating/air conditioning (HVAC), lighting, security, and fire alarm in a laboratory environment.

Prerequisites: ACR 222 and NRG 245 and NRG 223 or concurrent

NUR 101 - NLN-RN PAX Preparation Course(1:1:0)

This course is designed to assist prospective nursing students to be better prepared to take the National League for Nursing Pre-Admission Exam (NLN-PAX). The NLN-PAX is required as part of the application process for the Associate Degree Nursing Program at the Owens, Terry, and Stanton campuses of Delaware Tech. Prerequisites: (Test score or MAT 005 or NCS 005 or NCW 045 or MAT 090 or MAT 012 or NCS 012 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 181) and (Test score or ENG 005 or ENG 006 or ENG 051 or ENG 099 or NCS 051 or ESL 034 or ESL 100 or ENG 121 or ENG 125) and (Test score or RDG 005 or ENG 0051 or ENG 099 or NCS 052 or ESL 032 or ESL 100 or RDG 120).

NUR 102 - NLN-PN PAX Preparation Course(1:1:0)

This course is designed to assist prospective nursing students to be better prepared to take the National League for Nursing Pre-Admission Exam (NLN-PAX). The NLN-PAX is required as part of the application process for the Associate Degree Nursing Program at the Owens, Terry and Stanton campuses of Delaware Tech. Prerequisites: (Test score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120) and (Test score or MAT 005 or NCS 005 or MAT 012 or NCS 012 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 181)

NUR 111 - Cultural Competency & Health(3:3:0)

This course introduces cultural theories and concepts that influence health beliefs and practices. It is designed to offer health care providers with tools for the effective delivery of culturally competent care.

Prerequisites: Test score or ENG 121 or ENG 125 and SOC 111

NUR 114 - Pharmacology for Nurses(3:3:0)

This elective course is designed to provide nursing students with additional knowledge of pharmacology. This course introduces the principles of pharmacology, including drug classifications and their effects on the body. Drug prototypes are used to examine

major drug classifications highlighting therapeutic use, adverse reactions, precautions, and contraindications, and health teaching. Legal, ethical, and contemporary issues are presented as they relate to nursing practice. Prerequisites: BIO 120 and BIO 121.

NUR 121 - Nursing Fundamentals I.....(11:6:5)

This course provides the foundational content for beginning nursing practice. The steps of the nursing process are introduced. Principles relating to communication, activities of daily living, safety, infection control, medication administration, data collection, and documentation are covered. All basic nursing skills including physical assessment are taught and implemented in laboratory and long-term care clinical settings. Prerequisites: (Test score or RDG 120) and (BIO 110 or BIO 120) and MAT 119

NUR 122 - Nursing Fundamentals II.....(11:6:5)

This course builds on the content provided in NUR 121 and NUR 123 to address the nursing care of patients with commonly experienced health problems. The clinical experience in the course is two-fold: the implementation of didactic content provided in NUR 123 in a variety of settings for special populations and the application of skills in the acute care setting for medical-surgical patients with the building of nursing knowledge for this population. Prerequisites: NUR 121 and NUR 123 and (BIO 121 or BIO 110)

NUR 123 - Nursing of Special Populations(3:3:0)

The course is designed to assist the student to provide basic assessment of psychiatric, geriatric, obstetric, and pediatric clients. Selected principles related to safety, pharmacology, and nutrition are covered. The student gains knowledge in these content areas with an emphasis on normal health needs, health deviations, and developmental factors. Prerequisites: (Test score or RDG 120) and (BIO 110 or BIO 120) and MAT 119

NUR 124 - Basic Nursing Concepts.....(6:4:6)

This course provides the foundational content for beginning nursing practice. The steps of the nursing process are introduced. Principles relating to communication, activities of daily living, safety, infection control, data collection, and documentation are covered. Basic nursing skills including physical assessment are taught and implemented in the clinical laboratory setting. Prerequisites: (Test score or RDG 120) and (BIO 110 or BIO 120) and MAT 119

NUR 125 - Nursing Concepts I.....(8:4:12)

This course builds on the content provided in NUR 124 to address the nursing care of patients with issues related to activities of daily living. Principles relating to pharmacology, medication administration, care of the patient having surgery, and those with infectious diseases are covered. Nursing skills are implemented in the clinical laboratory and long-term care settings. Prerequisite: NUR 124

NUR 126 - Nursing Concepts II(8:4:12)

This course builds on the content provided in NUR 123, 124 and 125 to address the nursing care of patients with commonly experienced health problems. The clinical experience in the course is two-fold: the implementation of didactic content provided in NUR 123 in variety of settings for special populations and the application of skills in the acute care setting for medical-surgical patients with the building of nursing knowledge for this population. Prerequisites: NUR 123 and NUR 125 and (BIO 110 or BIO 121)

NUR 131 - Fundamentals of Nursing.....(4:2:6)

This course introduces the student to the role of the practical

nurse as a member of the multi-disciplinary health care team. Emphasis is placed on the integration of the nursing process and theoretical concepts into the performance of fundamental skills in a long term care setting. Prerequisites: BIO 110 or (BIO 120 or BIO 121) and PSY 127 or concurrent and MAT 129 and ENG 101

NUR 132 - Medical-Surgical Nursing I.....(6:3:9)

This course defines the role of the practical nurse as a provider of care and member within the disipline of nursing. Emphasis is placed on the systematic attainment of theoretical knowledge by the use of the nursing process and beginning critical thinking skills which are needed for beginning medical-surgical clinical practice. Concepts of promotion, maintenance and restoration of health are introduced when caring for adults in the acute care and community settings. Prerequisites: NUR 131 and (BIO 110 or BIO 120) and BIO 121 and (PSY 127 or PSY 127 concurrently).

NUR 133 - Medical-Surgical Nursing II(6:3:9)

This course completes the systematic approach to the delivery of medical-surgical theoretical knowledge. The use of strengthened critical thinking exercises and the nursing process readies the practical nursing student for entry into a medical-surgical nursing practice when caring for adults in the acute care and community settings. Prerequisites: NUR 132 and MAT 119 and PSY 127 and (BIO 110 or BIO 120) and BIO 121.

NUR 134 - Essentials-Mental HIth Nursing.....(2:1:3)

This course explores the role of the entry-level practical nurse as a provider of care and member within the discipline of nursing in the mental health setting by introducing theoretical knowledge needed for beginning clinical practice. The use of the nursing process promotes critical thinking in the care of clients with alterations in mental health. Prerequisites: (NUR 131 or concurrent) and (NUR 137 or concurrent)

NUR 135 - Essents Maternal/Chid Nursing(4:2:6)

This course explores the role of the entry-level practical nurse as a provider of care and member within the discipline of nursing in the maternal-child setting by introducing theoretical knowledge needed for beginning clinical practice. The use of the nursing process promotes critical thinking in the care of childbearing families and children across the lifespan. Prerequisites: NUR 131 and NUR 137 and PSY 127

NUR 137 - Essentials Legal-Ethicl Issues.....(1:1:0)

This course explores the legat-ethical standards of nursing practice as it relates to the practical nurse. Emphasis is placed on development of interpersonal skills used in the workplace. Focus is placed on preparation for employment. Prerequisites: NUR 132 and PSY 127 and (BIO 110 or BIO 120) and BIO 121.

NUR 141 - Nursing Care I-A.....(5:2:9)

Introduces the nurse's role as provider of care, manager of care and member within the discipline of nursing. Emphasizes concepts needed for competent beginning nursing practice. Learning experiences are provided in the campus lab with introduction to the clinical setting. Prerequisites: BIO 120 and MAT 119.

NUR 142 - Nursing Care I-B(5:2:9)

Introduces the nurse's roles as provider of care, manager of care and member within the discipline of nursing. Emphasizes concepts needed for competent beginning nursing practice. Learning experiences are provided in acute care, long-term care and community settings. Prerequisites: BIO 120 and MAT 119.

NUR 143 - Nursing Care II-A....(5:2:9)

Continues the development of the nurse's role as provider of care, manager of care and member within the discipline of nursing. Emphasis is placed on theoretical knowledge and the use of the nursing process and critical thinking required for the implementation of safe nursing care. Learning experiences focus on caring for the individual adult in a variety of health-care settings where the student functions as a member of the health-care team. Prerequisites: BIO 121 and PSY 127 and NUR 141 and NUR 142.

NUR 144 - Nursing Care II-B.....(5:2:9)

Continues the development of the nurse's role as provider of care, manager of care and member within the discipline of nursing. Emphasis is placed on theoretical knowledge and the use of the nursing process and critical thinking required for the implementation of safe nursing care. Learning experiences focus on caring for child bearing and child rearing families within a variety of settings including the community. Prerequisites: BIO 121 and PSY 127 and NUR 141 and NUR 142.

NUR 145 - LPN to RN Role Transition.....(2:2:0)

This course assists with the transition from the role of the LPN to the RN roles of provider of care, manager of care and member within the discipline of nursing as an Associate Degree Nurse. Emphasis is placed on the concepts of clinical competence and critical thinking in the planning and documentation of care for clients in a variety of health settings. Learning experiences are provided through independent study and simulation in the nursing campus lab setting.

NUR 170 - Nursing Concepts I.....(8:5:9)

This adult health nursing course is designed to begin the development of the nurse's role as an entry level healthcare provider. The majority of curricular concepts integral to the individual, nursing, and healthcare domains are introduced in this foundational course. Emphasis is placed on the concepts of medication administration, health promotion and disease prevention, oxygenation, perfusion, culture and diversity, leadership, safety, evidence based practice, informatics, patient-centered care and concepts that teach assessment. Classroom learning experiences are student-centered, incorporate active learning strategies, and enhance the student's ability to apply theory to practice. Clinical experiences emphasize the safe performance of nursing practice within a variety of healthcare settings. Upon completion of this course, students will be able to demonstrate the knowledge, skills, and attitudes essential to provide safe nursing care incorporating the concepts taught in this course. Prerequisites: BIO 120 and (MAT 119 or MAT 129)

NUR 171 - Nursing Care of Adults I..... (4:2:6)

This course introduces the student to the role of the nurse as a member of the multi-disciplinary health care team. Emphasis is placed on theoretical concepts and the performance of fundamental skills. Critical thinking is introduced using the nursing process in the care of adults in long-term care settings. Prerequisites: BIO 110 or BIO 120 and BIO 121 and ENG 121 and PSY 127

NUR 172 - Nursing Care of Adults II.....(6:3:9)

This course defines the role of the nurse as a provider of care, and member within the discipline of nursing. Emphasis is placed on theoretical knowledge needed for beginning clinical competence. Through use of critical thinking and the nursing process, focus is placed on concepts of promotion, maintenance, and restoration of health when caring for adults in acute care and community settings. Prerequisites: (BIO 110 or BIO 120) and BIO 121 and NUR 171.

NUR 173 - Nursing Care of Adults III(6:3:9)

This course enables a demonstration of an understanding of the role of the nurse in entry-level practice as a provider of care and member

within the discipline of nursing. There is continued emphasis placed on theoretical knowledge needed for clinical competence. By building on critical thinking and the nursing process, focus is placed on the concepts of promotion, maintenance, and restoration of health when caring for adults in the acute care and community settings. Prerequisites: (BIO 110 or BIO 120) and BIO 121 and MAT 119 and NUR 172.

NUR 174 - Mental Health Nursing(2:1:3)

This course enables the demonstration of an understanding of the role of the entry-level nurse as a provider of care, and member within the discipline of nursing in mental health settings. Introduces theoretical knowledge needed for beginning clinical competence. By continuing to build on critical thinking and the nursing process, focus is placed on the concepts of promotion, maintenance, and restoration of health when caring for clients with alterations in mental health. Prerequisites: (BIO 110 or BIO 120) and BIO 121 and MAT 119 and NUR 172.

NUR 175 - Maternal/Newborn Nursing I(2:1:3)

This course enables demonstration of an understanding of the role of the entry-level nurse as a provider of care and member within the discipline of nursing in the maternal-newborn setting. Introduces theoretical knowledge needed for beginning clinical competence. By continuing to build on critical thinking and the nursing process, focus is placed on promotion, maintenance, and restoration of health for the care of childbearing families and women across the reproductive life span. Prerequisites: (BIO 110 or BIO 120) and BIO 121 and MAT 119 and NUR 172.

NUR 176 - Nursing Care of Children I(2:1:3)

This course enables demonstration of an understanding of the role of the entry-level nurse as a provider of care and member within the discipline of nursing in pediatric settings. Emphasis is placed on theoretical knowledge needed for beginning clinical competence. By continuing to build on critical thinking and the nursing process, focus is placed on the concepts of promotion, maintenance, and restoration of health when caring for children and their families. Prerequisites: (BIO 110 or BIO 120) and BIO 121 and MAT 119 and NUR 172.

NUR 177 - Nursing Perspectives I(1:1:0)

This course enables demonstration of an understanding of the role of the entry-level nurse as it relates to the legal and ethical standards of nursing practice. Emphasis is placed on development of interpersonal skills used in the workplace. Focus is placed on preparation for employment. Prerequisites: (BIO 110 or BIO 120) and BIO 121 and NUR 172.

NUR 178 - Transition:Profession Nursing(2:2:0)

This course assesses and provides theoretical and clinical knowledge, as well as curriculum awareness, for the transitioning Licensed Practical Nurse into the Associate Degree Nursing program. Emphasis is placed on establishing a baseline of knowledge and clinical competency that assists the returning student in his or her goal to be a professional nurse. Prerequisites: NUR 173 and NUR 174 and NUR 175 and NUR 176 and NUR 177; or NUR 199; and BIO 120 and BIO 121 and PSY 127 and MAT 119 and ENG 121.

NUR 179 - Paramedic Bridge Course.....(10:8:2)

This course assesses and provides theoretical and clinical knowledge, as well as curriculum awareness, for the transitioning certified paramedic into the Associate Degree Nursing program. Emphasis is placed on establishing a baseline of knowledge and clinical competency with diverse populations in a variety of settings that assists the paramedic in his or her goal to be a professional nurse. Prerequisites: NUR 198 and BIO 120 and BIO 121 and BIO 125 and MAT 119 and PSY 127 and (Test Score or ENG 121 or ENG 125) and RDG 120.

NUR 180 - Nursing Concepts II(4:2:6)

This adult health nursing course is designed to further develop the nurse's role as an entry-level healthcare provider. Concepts integral to the individual, nursing, and healthcare domains build on prior knowledge and are demonstrated through increasingly complex exemplars in a simple care environment. Emphasis is placed on health and illness, as taught through new concepts introduced in this course, which include acid base balance, metabolism, cellular regulation, inflammation, and immunity. Classroom learning experiences are student-centered, incorporate active learning strategies, and enhance the student's ability to apply theory to practice. Clinical experiences emphasize the safe performance of nursing practice primarily in inpatient healthcare settings. Upon completion of this course, students will be able to demonstrate the knowledge, skills, and attitudes essential to provide safe nursing care incorporating the concepts taught in this course. Prerequisites: BIO 121 and NUR 170

NUR 181 - Mental Health Concepts(4:2:6)

This mental health nursing course is designed to further develop the nurse's role as an entry-level healthcare provider. Concepts integral to the individual, nursing, and healthcare domains build on prior knowledge and are demonstrated through increasingly complex exemplars. New concepts relative to mental health are introduced. Emphasis is placed on concepts such as sexuality, grief and loss, cognition, behavior, development, self, violence, safety, health promotion and disease prevention, leadership, and ethical and legal standards. Classroom learning experiences are student-centered, incorporate active learning strategies, and enhance the student's ability to apply theory to practice. Clinical experiences emphasize the safe performance of nursing practice within a variety of healthcare settings. Upon completion of this course, students will be able to demonstrate the knowledge, skills, and attitudes essential to provide safe nursing care incorporating the concepts taught in this course. Prerequisites: BIO 121 and NUR 170

NUR 189 - Approved Technical Elective(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

NUR 199 - Adv Credit/Practical Nursing(18:0:0)

Advanced credit for approved practical nursing graduates, holding a current LPN license. Prerequisites: None

NUR 200 - Nursing Concepts III(4:2:6)

This adult health nursing course is designed to further develop the nurse's role as an entry-level healthcare provider and culminates in the graduate's ability to transition into practice as a professional nurse. Concepts integral to the individual, nursing, and healthcare domains build on prior knowledge and are demonstrated through increasingly complex exemplars. Emphasis is placed on the concepts of fluid and electrolytes, metabolism, increased intracranial pressure. oxygenation, perfusion, infection, violence, health promotion and disease prevention, evidence-based practice, leadership, safety, and patientcentered care. Classroom learning experiences are student-centered, incorporate active learning strategies, and enhance the student's ability to apply theory to practice. Clinical experiences emphasize the safe performance of nursing practice within the highly complex healthcare setting. Upon completion of this course, students will be able to synthesize conceptual knowledge, perform skills, and exhibit attitudes necessary to provide entry-level nursing care. Prerequisites: (BIO 125 concurrently or BIO 250) and NUR 180 and NUR 181 and PSY 127

NUR 201 - Maternal Child Health Concepts(4:2:6)

This maternal child health nursing course is designed to further develop nurse's role as an entry level healthcare provider. Concepts

integral to the individual, nursing, and healthcare domains build on prior knowledge and are demonstrated through increasingly complex exemplars. New concepts relative to maternal child health are introduced. Emphasis is placed on the concepts of oxygenation, perfusion, sexuality, reproduction, infection, development, family, health promotion and disease prevention, leadership, and patient-centered care. Classroom learning experiences are student-centered, incorporating active learning strategies that enhance the student's ability to apply theory to practice. Clinical experiences emphasize the safe performance of nursing practice within a variety of healthcare settings. Upon completion of this course, students will be able to demonstrate the knowledge, skills, and attitudes essential to provide safe nursing care by incorporating the concepts taught in this course. Prerequisites: (BIO 125 concurrently or BIO 250) and NUR 180 and NUR 181 and PSY 127

NUR 210 - Nursing Concepts IV(4:2:6)

This adult health nursing course is designed to further develop the nurse's role as an entry-level healthcare provider and culminates in the graduate's ability to transition into practice as a professional nurse. Concepts integral to the individual, nursing, and healthcare domains build on prior knowledge and are demonstrated through increasingly complex exemplars. Emphasis is placed on the concepts of fluid and electrolytes, metabolism, increased intracranial pressure, oxygenation, perfusion, infection, violence, health promotion and disease prevention, evidence-based practice, leadership, safety, and patient- centered care. Classroom learning experiences are student- centered, incorporate active learning strategies, and enhance the student's ability to apply theory to practice. Clinical experiences emphasize the safe performance of nursing practice within the highly complex healthcare setting. Upon completion of this course, students will be able to synthesize conceptual knowledge, perform skills, and exhibit attitudes necessary to provide entry-level nursing care. Prerequisites: NUR 200 and NUR 201

NUR 211 - Community & Profess Concepts.....(4:2:6)

This community and professional nursing course is designed to further develop the nurse's role as an entry-level healthcare provider and culminates in the graduate's ability to transition into practice as a professional nurse. Concepts integral to the individual, nursing, and healthcare domains build on prior knowledge and are demonstrated through increasingly complex exemplars. Emphasis is placed on the concepts of infection, sensory-perception, family, culture and diversity, violence, health promotion and disease prevention, spirit of inquiry, leadership, safety, ethical and legal standards, evidence based practice, quality improvement, and health policy. Classroom learning experiences are student-centered, incorporating active learning strategies that enhance the student's ability to apply theory to practice. Clinical experiences emphasize the safe performance of nursing practice within a variety of community healthcare settings. Upon completion of this course, students will be able to synthesize conceptual knowledge, perform skills, and exhibit attitudes necessary to provide entry-level nursing care. Prerequisites: NUR 200 and NUR 201

NUR 221 - Nursing Care of Adults I......(3:2:3)

This course develops the concepts and principles of nursing as it applies to the care of individuals with orthopedic and sensory conditions, complex nutritional problems, and inbalances of homeostasis. A clinical focus on teaching to empower patients taking into account individual diversity is emphasized. Prerequisites: BIO 121 and PSY 127 and (Test score or ENG 121 or ENG 125) and MAT 119 and ((NUR 121 and NUR 122 and NUR 123) or (NUR 123 and NUR 124 and NUR 125 and NUR 126) or (NUR 199)).

NUR 222 - Nursing Care of Adults II.....(3:2:3)

This course develops the concepts and principles of nursing

as it applies to the care of individuals with cardiovascular, respiratory, immunological, and neurological problems. A clinical focus on professionalism, encompassing the nurse's role in interdisciplinary collaboration, is emphasized. Prerequisites: BIO 121 and PSY 127 and (Test score or ENG 121 or ENG 125) and MAT 119 and ((NUR 121 and NUR 123 and NUR 122) or (NUR 123 and NUR 124 and NUR 125 and NUR 126) or (NUR 199)).

NUR 223 - Nursing Care of Adults III(3:2:3)

This course develops the concepts and principles of nursing as it applies to the care of individuals with hematological and renal disorders and cancer. Content is also provided regarding nursing's role within the dynamic healthcare system. A clinical focus on the roles of the nurse as manager, care coordinator, advocate, collaborator, and researcher is emphasized. Prerequisites: BIO 121 and PSY 127 and (Test score or ENG 121 or ENG 125) and MAT 119 and ((NUR 121 and NUR 122 and NUR 123) or (NUR 123 and NUR 124 and NUR 125 and NUR 126) or (NUR 199)).

NUR 224 - Maternal Newborn Nursing.....(3:2:3)

This course develops the concepts and principles of nursing as it applies to the care of maternal-newborn patients and families. The integration of basic genetic concepts and principles develops the importance of genetics in nursing theory and clinical practice. Prerequisites: (Test score or ENG 121 or ENG 125) and BIO 121 and PSY 127 and MAT 119 and ((NUR 121 and NUR 122 and NUR 123) or (NUR 123 and NUR 124 and NUR 125 and NUR 126) or (NUR 199)).

NUR 225 - Pediatric Nursing(3:2:3)

This course develops the concepts and principles of nursing as it applies to the care of pediatric patients and families. The clinical focus is in the acute care setting and incorporates health promotion experiences. Prerequisites: (Test score or ENG 121 or ENG 125) and BIO 121 and PSY 127 and MAT 119 and ((NUR 121 and NUR 123 and NUR 122) or (NUR 123 and NUR 124 and NUR 125 and NUR 126) or (NUR 199)).

NUR 226 - Mental Health Nursing(3:2:3)

This course develops the concepts and principles of nursing as it applies to the care of patients with mental health issues. The clinical focus is in both inpatient and community settings with a focus on developing therapeutic communication skills. Prerequisites: (Test score or ENG 121 or ENG 125) and BIO 121 and PSY 127 and MAT 119 and ((NUR 121 and NUR 123 and NUR 122) or (NUR 123 and NUR 124 and NUR 125 and NUR 126) or (NUR 199)).

NUR 241 - Nursing Care III-A.....(5:2:9)

Expands the nurse's roles as provider of care, manager of care and member within the discipline of nursing. Builds on previous theoretical knowledge and experience with the use of nursing process and critical thinking towards the implementation of safe nursing care. Learning experiences focus on caring for adults in a variety of health-care settings where the student functions as a member of the health-care team. Prerequisites: BIO 125 and NUR 143 and NUR 144 or NUR 199

NUR 242 - Nursing Care III-B.....(5:2:9)

Expands the nurse's role as provider of care, manager of care and member within the discipline of nursing. Builds on previous theoretical knowledge and experience with the use of the nursing process and critical thinking towards the implementation of safe nursing care. Learning experiences stress appropriate communication techniques for effective interaction with individuals and families within a variety of settings including the community. Prerequisites: BIO 125 and NUR 143 and NUR 144

NUR 243 - Nursing Care IV-A.....(5:2:9)

Emphasis on the nurse's role as an independent provider of care and manager of care for a group of clients and member within the discipline of nursing. Integrates theoretical knowledge, nursing process and critical thinking to demonstrate clinical competence. Learning experiences focus on managing care for a group of adults in a variety of healthcare settings. Prerequisites: SOC 111 and NUR 241 and NUR 242.

NUR 244 - Nursing Care IV-B.....(5:2:9)

Emphasis on the nurse's role as an independent provider of care and manager of care for a group of clients and member within the discipline of nursing. Integrates theoretical knowledge, nursing process and critical thinking to demonstrate clinical competence. Learning experiences focus on caring for the elderly and families throughout the life cycle within a variety of settings including the community. Prerequisites: SOC 111 and NUR 241 and NUR 242

NUR 271 - Nursing Care of Adults IV(5:2:9)

This course examines the role of the professional nurse as a provider of care, manager of care and member within the discipline of nursing. Emphasis is on advanced theoretical knowledge required for clinical competence. Concepts of community health nursing are introduced. Synthesis of critical thinking and the nursing process is applied for the promotion, maintenance, and restoration of health when caring for adults in a variety of acute care and community settings. Prerequisite: NUR 173, NUR 174, NUR 175, NUR 176, NUR 177, or NUR 199; and BIO 120 and BIO 121 and PSY 127 and MAT 119 and ENG 121.

NUR 272 - Nursing Care of Adults V..... (5:2:9)

This course interprets the role of the professional nurse as a provider of care, manager of care and member within the discipline of nursing. Emphasis is on advanced theoretical knowledge required for clinical competence. Community health nursing is integrated. Critical thinking and the nursing process are used in the evaluation of the effectiveness of the promotion, maintenance, and restoration of health when caring for adults in a variety of acute care and community settings. Prerequisites: NUR 271

NUR 274 - Community Mental Hith Nursing.....(3:1:6)

This course interprets the role of the professional nurse as a provider of care, manager of care and member within the discipline of nursing in the community mental health setting. Emphasis is placed on advanced theoretical knowledge required for clinical competence. Critical thinking and the nursing process are used in the evaluation of the promotion, maintenance, and restoration of health when caring for the client with alterations in mental health. Prerequisites: NUR 271

NUR 275 - Maternal/Newborn Nursing II(3:1:6)

This course examines the role of the professional nurse as a provider of care, manager of care and member within the discipline of nursing in the maternal-newborn setting. Emphasis is placed on advanced theoretical knowledge required for clinical competence. Concepts of community health are introduced. Synthesis of critical thinking and the nursing process is applied in the promotion, maintenance, and restoration of health when caring for childbearing families and women across the reproductive life span. Prerequisite: NUR 173 and NUR 174 and NUR 175 and NUR 176 and NUR 177 or NUR 199; and BIO 120 and BIO 121 and ENG 121 and PSY 127 and MAT 119.

NUR 276 - Nursing Care of Children II.....(3:1:6)

This course interprets the role of the professional nurse as a provider of care, manager of care and member within the discipline of nursing in pediatric settings. Emphasis is placed on advanced theoretical knowledge required for clinical competence. Community

health nursing is integrated. Critical thinking and the nursing process are used in the evaluation of the effectiveness of the promotion, maintenance, and restoration of health when caring for children and their families. Prerequisites: NUR 271 and NUR 275.	OAT 152 - Excel Level I(This course will teach the fundamentals of Microsoft Excel. Upon completion of this course, participants may be eligible to take the Microsoft Office Specialist Core level certification test in Excel. Prerequisites: None	(3:2:2)
NUR 277 - Nursing Perspectives II(1:1:0)	lovor continuation tost in Excell 1 forequisites. None	
This course enables assessment of the role of the professional nurse as it relates to the legal and ethical standards of nursing practice.	OAT 154 - Access Level II(This course will teach the more advanced features of Microsoft	(3:2:2)
Emphasis is placed on development of leadership and management skills as a member of the multi-disciplinary health care team. Focus is placed on integration of critical thinking skills in decision making within the health community. Prerequisites: (NUR 173 and NUR	Access. Upon completion of this course, participants may be eligible to take the Microsoft Office User Specialist (MOUS) Expert Level certification test in Access. Prerequisite: None	
174 and NUR 175 and NUR 176 and NUR177) or NUR 199.	OAT 155 - Excel Level II(3.2.2)
	This course will teach the more advanced features of Microsoft	0.2.2)
NUR 289 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	Excel. Upon completion of this course, participants may be eligible to take the Microsoft Office User Specialist (MOUS) expert level certification in Excel. Prerequisite: None	
	export lovel continuation in Excell 1 forequiette. Note	
OAT 010 - Business & Computer Skills (3:3:1) This course is designed to give the pre-tech student a survey	OAT 157 - Word Level I(This course will teach the fundamental concepts of Microsoft	(3:2:2)
of office careers and the keyboarding, filing, and proofreading	Word. Upon completion of this course, participants may	
skills needed for these jobs. Prerequisites: Test score or RDG 005 and Test score or ENG 005 and Test score or MAT 005	be eligible to take the Microsoft Office Specialist core- level certification in Word. Prerequisites: None	
OAT 110 - Basic Keyboarding (2:2:1)	OAT 158 - Word Level II(3:2:2)
A course designed to enable the student to master computer	This course will teach the more advanced concepts of	
keyboarding skills Prerequisites: Test score or RDG 005 or RDG 051 or NCS 052 or ESL 032 or ESL 100 or RDG 120 and Test score or	Microsoft Word. Upon Completion of this course, participants	
ENG 005 or ENG 051 or NCS 051 or ESL 034 or ESL 100 or ENG	may be eligible to take the Microsoft Office Specialist expert- level certification in Word. Prerequisite: OAT 157	
121 or ENG 125 and Test score or MAT 005 or NCS 005 or MAT 012	10707 OSTANIOALOTTIN WOTAL FIOLOGIAIOLO. OTT 107	
or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or	OAT 159 - PowerPoint((3:2:2)
MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 135 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185	This course will teach the components of Microsoft	
140 OF WINE 141 OF WINE 100 OF WINE 100 OF WINE 101 OF WINE 100	PowerPoint. Upon completion of this course, participants may be eligible to take the Microsoft Office User Specialist (MOUS)	
OAT 121 - Keyboarding (4:3:2)	certification test in PowerPoint. Prerequisite: None	
This course develops touch control of the keyboard and proper		
keyboarding techniques and builds basic speed and accuracy. Students	OAT 189 - Approved Technical Elective((3:0:0)
will use a word processing software to format letters, reports, tables, memos and related business communications. Prerequisites: Test score or ENG 005 or ENG 051 or NCS 051 or ESL 034 or ESL 100 or ENG 121	Students may complete technical electives for which they have written prior approval of the department chairperson.	
or ENG 125 and Test score or RDG 005 or RDG 051 or NCS 052 or ESL	OAT 221 - Office Systems and Procedures /	2.2.4\
032 or ESL 100 or RDG 120 and Test score or MAT 005 or NCS 005 or	OAT 231 - Office Systems and Procedures(The topics of the course include imaging, processing mail,	3:3:1)
MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 125 or MAT 130 or MAT 135 or MAT	telecommunications, meetings and conferences, collecting,	
140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 or MAT 185	processing and presenting business data, and handling financial	
	information. Emphasis is placed on work ethics and developing the professional image of an office employee. Prerequisite: (OAT	
OAT 122 - Keyboarding Applications(4:3:2)	121 or OFS 121) and (Test score or RDG 051 or NCS 052 or	
This course continues the development of keyboarding skills, speed-	ENG 099 or ESL 100 or RDG 120) and (Test score or ENG 051 or	
building, and accuracy. Students perform advanced word processing skills in the formatting of various tpes of business correspondence,	NCS 051 or ENG 099 or ESL 100 or ENG 121 or ENG 125).	
reports, tables and electronic forms. Prerequisites: None	0.7.040	
•	OAT 240 - Integrated Business Applicatns(3:2:2)
OAT 132 - Referencing and Transcription(3:3:1)	A capstone course designed to give the student an opportunity to demonstrate in-depth knowledge of word processing, data	
Provides student with writing, referencing, proofreading and editing	bases, spreadsheets and graphics, presentation software and	
skills; integrated language skills while transcribing a variety of business documents. Prerequisites: OAT 121 or OFS 121 and Test	other methods of multimedia communication. Prerequisites: (OAT	
score or RDG 051 or NCS 052 or ESL 100 or RDG 120 and Test	151 and OAT 152 and OAT 157) and (OAT 159 or OAT 156).	
score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125		

OAT 151 - Access Level I(3:2:2)

This course will teach the fundamentals of

Microsoft Access. Prerequisites: None

This course differentiates between a job and a career. The student learns effective methods for career-related decisions based on skills, values, and interests. The course utilizes the Internet to explore office occupations and job hunting. A Web Page will be created and posted. Teamwork and creativity are essential. Prerequisites: OAT 121 or OFS 121.

OAT 241 - Career Dev for Off Occupations(3:3:0)

OAT 242 - Desktop Publishing
OAT 281 - Legal Research and Writing II
OAT 289 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
OMT 100 - Operations Management
OMT 210 - Project Based Accounting
OMT 220 - Process Analysis & Control
OMT 230 - Project Management
OMT 240 - Supply Chain Management

service standards, and production. The efficient integration of supply

chain element to ensure the right products in the right quantities reach customers at the right time will be discussed. Topics will also include the strategic role of supply chain management, design and planning methods, and supply chain issues. Prerequisites: MIS 220 and (OMT 100 or IET 242) and (OMT 220 or IET 175).

OMT 250 - Statistical Process Control(3:3:1)

The application of statistics and probability to basic quality control requirements found in organizational settings is the focus of this course. The course teaches the development and use of control charts, acceptance sampling, the use of SPC software, ISO 9000 and QS 9000 Standards, and total quality management practices. Prerequisites: (MAT 255 or MAT 271) and (CIS 107 or IET 150).

OMT 260 - Quality Management.....(4:4:0)

The implementation of modern quality management techniques is the focus of this course. The course provides historic and practical applications of quality methods such as continuous process improvement (CPI) and Six Sigma to contemporary processes such as Lean manufacturing. Prerequisites: (CIS 107 or IET 150) and (MAT 255 or MAT 271) and (OMT 210 or IET 204).

OMT 270 - Process Design & Layout(4:3:2)

This course emphasizes the efficient and effective use of organizational layout and process designs as means to improve productivity, profitablility, and employee satisfaction. Students will learn how specific layout plan designs can produce a cost-efective, quality-oriented, environmentally safe, and aesthetically pleasing workplace to serve an organization's present and future needs. The course will also focus on maximizing productivity by efficient design of organizational processes while considering design elements such as space allowances, process/product change, human ergonomics, material handling, and equipment usage. Prerequisites: (MAT 255 or MAT 271) and (OMT 210 or IET 204) and (OMT 220 or IET 175) and (OMT 230 or IET 280).

OTA 110 - Intro To Occupational Therapy.....(3:3:1)

This course provides an overview of the occupational therapy profession, including the history and philosophy of occupational therapy, the Occupational Therapy Practice Framework (OTPF), and the roles and responsibilities of the occupational therapy assistant. Prerequisites: BIO 120 Co-Requisite: OTA 120

OTA 120 - Activity Analysis.....(2:1:2)

This course introduces the importance of purposeful activities. Emphasis is placed on activity analysis, incorporating the Occupational Therapy Practice Framework (OTPF). Pre-requisites: (Test Scores or ESL 100 or RDG 120) Co-Requisites: OTA 110

OTA 130 - Kinesiology for the OTA.....(2:1:2)

This lecture/laboratory course is the study of joint motion and muscle function. Students learn to analyze functional movement involved in occupational performance. Pre-requisites: OTA 120 and BIO 123

OTA 189 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

OTA 220 - Pediatric Health Conditions(3:3:0)

Provides information related to the study of conditions, diseases and dysfunctions common to individuals birth to 21 years of age, including Cerebral Palsy, Autism, Down Syndrome and other prevalent pediatric diagnoses. Prerequisites: OTA 110 and BIO 121 and PSY 127

OTA 221 - Adult & Geriatric Health Cond(3:3:0) Provides information related to the study of conditions, diseases and dysfunctions in the adult and geriatric populations, including i.e. CVA, Spinal Cord Injury, Orthopedic Conditions and other prevalent adult and geriatric diagnoses. Prerequisites: OTA 220	and recording occupational therapy evaluations and interventions for clientss with various conditions. The student will experience treatment of individuals and groups across the life span and in a variety of treatment settings. This Cllinical Fieldwork Level II-B will be provided in a different clinical setting than OTA 231. A seminar class provides additional exposure to roles and responsibilities
OTA 222 - Pediatric Intervention	of the COTA, emerging practice areas, trends that impact service delivery across the lifespan, and preparation for the certification examination and entry into the workforce. Prerequisites: OTA 231 OTA 289 - Approved Technical Elective(3:0:0)
OTA 223 - Adult & Geriatric Intervention(4:3:3) This course introduces evaluation and application of occupational therapy techniques in treating the adult and geriatric populations. Prererquisites: MAT 135, OTA 130	Students may complete technical electives for which they have written prior approval of the department chairperson. PHY 100 - Intro to Physics
and OTA 222 Co-requisites: OTA 221 and OTA 224	This course is designed for students who need a basic introduction to principles of physics, especially in the career
OTA 224 - Psychosocial Intervention	fields and other non-engineering disciplines. Emphasis is on a broad, general introduction to physics and day-to-day applications of the principles of physics. Prerequisites: Test score or MAT 012 and Test score or MAT 015 or MAT 016
120 and PSY 223 Co-requisites: OTA 221 and OTA 223	PHY 110 - Physics Physical Therapy Assnt(4:3:2) A course in the basic concepts of physics used by the physical therapist assistant. Content includes heat, levers,
OTA 225 - Clinical Fieldwork Level I-A(2:1:5) This fieldwork experience provides exposure to pediatric and young adult populations and individuals with developmental disabilities	frictions, electricity, and motion. Prerequisites: MAT 130
across the lifespan served by occupational therapy. A seminar class provides additional exposure to roles and responsibilities of the certified occupational therapy assistant (COTA) and issues that impact service delivery across the lifespan. Students function as participating observers in the clinical setting with emphasis on the development of their professional behaviors. Pre-requisites: OTA 110	PHY 111 - Conceptual Physics
OTA 226 - Clinical Fieldwork Level I-B	PHY 112 - Physics for Allied Health
OTA 229 - Professional Seminar	PHY 115 - Physics for Respiratory Care
OTA 225 and (OTA 226 or OTA 226 concurrently) OTA 231 - Clinical Fieldwork Level II-A	PHY 171 - Physics I
clients with various conditions. The student will experience treatment of individuals and groups across the life span and in a variety of treatment settings. Continued emphasis will be placed on the development of professional behaviors. A seminar class provides additional exposure to roles and responsibilities of the COTA,	PHY 172 - Physics II
emerging practice areas, trends that impact service delivery across the lifespan, and preparation for the certification examination and entry into the workforce. Prerequisites: OTA 223 and OTA 224	PHY 189 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
OTA 232 - Clinical Fieldwork Level II-B	PHY 205 - General Physics I

and two dimensional motion, work and energy, momentum, collisions, circular motion, gravity, rotational dynamics, mechanics of solids and fluids, fluids in motion, thermal physics, heat, and vibrations and waves. Prerequisites: MAT 181 or MAT 182 or MAT 185 or MAT 281	PLG 175 - Estate Admin and Probate
DUV 206 - Conoral Physics II (4:2:2)	in the preparation of estate and fiduciary and tax forms is also
PHY 206 - General Physics II(4:3:3)	discussed. Prerequisites: (Test Score or MAT 012 or higher)
This course is designed to introduce students to physics concepts	and (Test Scores or ENG 090 or ENG 091 or higher)
and its applications to science and industry. Topics include sound,	and (lest scores of ting 090 of ting 091 of higher)
electric fields and electric forces, electric energy, potential and	
capacitance, current, resistance and DC circuits, RC circuits,	PLG 270 - Criminal Law/Invest Procedures(3:3:0)
magnetism and inductance, AC circuits and EM waves, sound,	This course introduces substantive criminal law and procedures
reflection and refraction, optics, and introductory modern physics.	including elements of certain crimes, arrests, indictments, trial, and
Prerequisites: PHY 205 and (MAT 182 or MAT 185 or MAT 281).	post-conviction proceedings. Investigative techniques are also covered.
	The role of the legal assistant is explored. Prerequisites: (Test Scores or
PHY 271 - Electricity and Magnetism(4:3:2)	ENG 090 or ENG 091 or higher) and (Test Score or MAT 005 or higher)
This laboratory-based physics course includes electricity,	
	DI C 074 Pool Proposty Low
electric energy, electric current, magnetism, electromagnetic	PLG 271 - Real Property Law (3:3:0)
induction, alternating current, and modern physics.	This course introduces the basic concepts of the law of real property.
Prerequisite: MAT 182 and PHY 171 or ELC 120	Purchases and sales agreements, options, easements, deeds, title
	searches, closing procedures, foreclosures, evictions, condominiums
PHY 281 - Physics I with Calculus(4:3:2)	and zoning are covered. Prerequisites: (Test Scores or ENG 090
This calculus-based physics course includes vectors,	or ENG 091 or higher) and (Test Score or MAT 012 or higher)
kinematics, dynamics, energy, momentum, gravitation,	
rotational motion and dynamics, equilibrium, and mechanical	PLG 273 - Civil Procedure(3:3:0)
properties of matter. Prerequisites: MAT 281	This course introduces the process of civil litigation, as well as
proportion of matter. From equipition. With 201	interviewing and investigative skills. The course also includes drafting
DIIV 000 Bharta II with Oalanka (4.0.0)	
PHY 282 - Physics II with Calculus(4:3:2)	pleadings and discovery. Prerequisites: (Test Scores or ENG 051 or
This calculus-based physics course includes electric fields,	ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test
electric forces, electrical energy, capacitance, electric current,	Scores or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120)
magnestism, electromagnetic induction, alternating current, and	
electromagnetic waves. It is recommended to take Calculus (MAT	PLG 274 - Torts (3:3:0)
283) simultaneously. Prerequisites: MAT 282 and PHY 281	The course includes the substantive law of torts and
	insurance, in addition to case investigations. Prerequisites:
PHY 284 - Oscillation and Waves(4:3:2)	Test Scores or ENG 090 or ENG 091 or higher
This course builds on the concepts introduced in PHY 281 (Physics	
I with Calculus) with strong emphasis on oscillation and waves.	PLG 276 - Business Entities(3:3:0)
Continuum physics, with elements of elasticity theory and fluid	
	This course studies laws of the Uniform Commercial Code
mechanics along with oscillations and resonance phenomena in	and follows those laws to draw up articles of incorporation,
both mechanical systems and electrical circuits is introduced. Wave	minutes, by-laws, and other corporate documents pertaining to
propagation, interference, diffraction, and dispersion are covered in	partnership agreements, promissory notes, security agreements,
depth. Advanced labs accompany the curriculum throughout the course.	and sales contracts. Prerequisites: (Test Scores or ENG 090 or
Prerequisites: (MAT 281 or MAT 282 or MAT 283) and PHY 281	ENG 091 or higher) and (Test Scores or MAT 005 or higher)
PHY 289 - Approved Technical Elective(3:0:0)	PLG 280 - Legal Research & Writing(3:2:2)
Students may complete technical electives for which they have	This course introduces the books in the law library used to find and
written prior approval of the department chairperson.	interpret statutes, case law, and administrative regulations. Students use
written prior approval of the department champerson.	
DIO 400 F 11 I	digests, citators, and secondary legal sources. Emphasis is on writing
PLG 160 - Family Law (3:3:0)	interoffice memoranda and other legal documents. Prerequisites: (Test
This course studies the basic legal principles of marriage,	Scores or ENG 090 or ENG 091 or higher) and OAT 121 and OAT 170
divorce, support, adoption, juvenile law, and parent/child	
relationships, with an emphasis on drafting legal documents.	PLG 285 - Law Office Mgmt & Procedures(3:2:2)
Prerequisites: Test Scores or ENG 090 or ENG 091 or higher.	This course studies all phases of law office procedures and the
-	management and organization of a law office, the various software
PLG 170 - Intro to the Legal System (3:3:0)	used, and filing principles. Development and usage of systemization
This course provides a perspective of the legal system and specific	within the law office are emphasized. Principles and legal theory
knowledge of the present and potential role of the legal assistant	are demostrated through practical application. Prerequisites:
	(Test Scores or ENG 090 or ENG 091 or higher) and PLG 170
within the system. Prerequisistes: (Test Scores or ENG 006 or	(1001 000100 of Liva 000 of Liva 001 of Higher) alla i La 170
ENG 007 or higher) and (Test Score or MAT 005 or higher).	DI C COO Developed Intermedia
	PLG 290 - Paralegal Internship(4:0:12)
PLG 172 - Law of Simple Contracts(3:3:0)	This course provides training in the legal environment and includes
This course covers the negotiation and creation of agreements that	oversight by an advisor. Prerequisite: Department approval
legally bind parties in business arrangements with special emphasis	
on negotiations, offers, acceptance of offers, terms, and the conditions	POI 111 - Political Science (3:3:0)

on negotiations, offers, acceptance of offers, terms, and the conditions

and circumstances under which contracts are made or broken.

Prerequisites: Test Scores or ENG 090 or ENG 091 or higher.

est Scores or ENG 090 or or MAT 005 or higher) Writing(3:2:2) the law library used to find and nistrative regulations. Students use sources. Emphasis is on writing al documents. Prerequisites: (Test ther) and OAT 121 and OAT 170 & Procedures(3:2:2) office procedures and the w office, the various software ent and usage of systemization Principles and legal theory plication. Prerequisites: or higher) and PLG 170 nip(4:0:12) egal environment and includes Department approval **POL 111 - Political Science**(3:3:0) This course focuses on the organization and operation of government

at the various levels emphasizing involvement in the democratic process. The major purpose of the course is to provide the student with a working understanding of the structure and functioning of the formal political system on the local, state, national and international levels. The course is also designed to foster student involvement in the political process and to assist the student's clarification of his/her personal political value system. Prerequisites: Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or RDG 051 or NCS 052 or ESL 100 or RDG 120	POS 205 - Poultry Processing
POL 189 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	through a detailed study of the major diseases affecting poultry. The course stresses factors relating to health - causes of diseases, defense mechanisms, immunology, nutrition, and environment. Prerequisites: Test score or RDG 051 and Test score or ENG 005 and Test score or MAT 005 and POS 103
POL 289 - Approved Technical Elective	POS 210 - Supervised Internship
An overview of the broiler/poultry industries. General introduction to hatching egg production, genetics, hatchery operation, feed production, growing, processing, marketing, and economics. Prerequisite: Test score or RDG 005	Prerequisites: Test Score or RDG 051 and Test Score or ENG 051 and Test Score or MAT 012 and POS 101 and POS 105 and POS 205 POS 215 - Poultry Production Management(3:2:2)
POS 103 - Poultry Biology	An overview of the broiler/poultry industries. Students will receive a general introduction to poultry anatomy and physiology as it relates to disease in the industry. Principles of poultry housing management and environmental issues will be discussed. Prerequisites: Test scores or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test scores or RDG 051 or ESL 100 or RDG 120 and AGS 102
POS 105 - Broiler Management	POS 289 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
POS 107 - Feed/Grain Handling	PSY 100 - Human Relations
POS 109 - Poultry Marketing	PSY 121 - General Psychology
POS 189 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120).
POS 201 - Breeder & Hatchery Management(3:3:0) Students learn to manage breeder flocks and hatchery operations. The course presents egg handling and storage, hatchery sanitation, and waste control. Prerequisites: Test score or RDG 005 and Test score or MAT 005 and Test score or ENG 005	PSY 122 - Social Psychology
POS 203 - Applied Poultry Nutrition	PSY 123 - Industrial Psychology

Test score or RDG 005 and Test score or MAT 005

POS 205 - Poultry Processing
POS 208 - Poultry Health & Diseases
POS 210 - Supervised Internship
POS 215 - Poultry Production Management
POS 289 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
PSY 100 - Human Relations
PSY 121 - General Psychology

focus that includes attitudes, communication, motivation, stress,

teamwork, conflict resolution, diversity, and gender issues. Prerequisites: Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or RDG 051 or NCS 052 or ESL 100 or RDG 120	051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or RDG 051 or NCS 052 or ESL 100or RDG 120
PSY 125 - Child Development	PSY 230 - Mentor Practicum
PSY 126 - Child/Adolescent Development(3:3:0) Introduction to the processes of physical, cognitive, emotional, and social development during childhood	Students may complete technical electives for which they have written prior approval of the department chairperson.
and adolescence. Prerequisites: PSY 121 PSY 127 - Human Development	PTA 100 - Introduction to PTA
A life-span approach to human development through examination of the physical, cognitive, psychological and social processes and tasks associated with each stage in the life cycle. Emphasis will	certification and documentation are covered. Prerequisites: BIO 120 PTA 101 - Basic Techniques(4:2:5)
be placed on assessment of needs and common health problems as viewed in a developmental context. Prerequisites: Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test score or RDG 051 or NCS 052 or ESL 100 or RDG 120	The theory and skill development in body mechanics, transfers, and gait training, assessment techniques, therapeutic exercise, and massage. This course utilizes didactic, laboratory, and clinical experiences. Prerequisites: PTA 100
PSY 130 - Mentoring: Psych of Helping(3:3:0) This course is designed to develop the awareness and skills necessary to mentor a targeted population of proteges. Emphasis will be placed on learning the fundamentals of mentoring and mentoring programs, understanding developmentally at-risk patterns within the target population, and both didactic and experiential components.	PTA 102 - Modalities
Prerequisites: Test score or ENG 051 and Test score or RDG 051 PSY 189 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	PTA 115 - Kinesiology
PSY 219 - Organizational Behavior	PTA 116 - Intro to Pathology
power, conflict, organizational culture and other influences affect productivity and job satisfaction. Through interactive class discussions, case studies and projects, the class examines research findings, real world situations, and relevant theories. Prerequisites: BUS 101 and MGT 212 and (Test score or ENG 121 or ENG 125).	PTA 118 - Functional Anatomy&Kinesiology
PSY 223 - Abnormal Psychology	they provide motion through the biomechanical leverage system will also be studied. Prerequisites: BIO 121 and (PHY 110 or PHY 205 or PHY 112 or PHY 171). Co-requisite: PTA 101
maladaptive behavior including: historical views, classification of abnormal disorders, physical and psychological symptoms, and available treatments. Prerequisites: PSY 121	PTA 189 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
PSY 224 - Human Sexuality	PTA 205 - Path.Treatmnt Orthopedic Conds(4:3:3) A study of orthopedic conditions and their underlying pathology. Emphasis on physical therapy interventions of these conditions. Prerequisites: PTA 101 and PTA 102 and PTA 116.
, 11 2 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PTA 206 - Path/Treat Neurolgcl Conds(4:3:3) The study of the neurologically and developmentally involved

patient including positioning, handling, and facilitation of normal motor control through specialized therapeutic interventions. Prerequisites: PTA 101 and PTA 102 and PTA 116	and barium enema. Optimal radiographic production, contrast administration, and anatomy identification are supported by energized laboratory experience. Prerequisites: RAD 100
PTA 208 - Special Topics for the PTA(3:3:0.5) This course introduces specialized topics in the profession of physical therapy, including but not limited to women's health, architectural barriers, acquired immunodeficiency syndrome (AIDS) rehabilitation, home healthcare, nontraditional therapies, cardiopulmonary rehabilitation, seating, and industrial rehabilitation. Prerequisites: PTA 205 and PTA 206 and PTA 211	RAD 131 - Radiographic Procedures II
PTA 209 - PTA Management Issues	RAD 140 - Prin Radiographic Imaging I
The initial comprehensive clinical experience in a physical therapy setting for application of learned clinical skills on patients under the supervision of a licensed physical therapist. Prerequisite: None; Co-requisite: PTA 205 and PTA 206 PTA 212 - Clinical Practice II	RAD 141 - Prin Radiographic Imaging II
A five-week, full-time clinical experience in a physical therapy setting for learned clinical skills practiced in PTA 211, and a continuation of application of newly learned interventions, under the supervision of a licensed physical therapist or physical therapist assistant. Prerequisites: PTA 211	RAD 150 - Radiation Protection/Biology(2:2:0) This course provides the student with an overview of the principles of radiation protection for the radiographer, patients, other personnel, and the public. Radiation effects on biological molecules and organisms and factors affecting biological response are also presented. Prerequisites: RAD 120 and BIO 120.
PTA 213 - Clinical Practice III	RAD 160 - Clinical Radiography I
Students may complete technical electives for which they have written prior approval of the department chairperson.	manipulation, positioning, technique manipulation, and film evaluation. Prerequisites: MAT 153 or MAT 130 and BIO 120 or RAD 100.
PUB 289 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	RAD 161 - Clinical Radiography II
RAD 100 - Hospital Orientation	departments. The student develops and refines skills in patient management, equipment manipulation, positioning, technique manipulation and film evaluation. Prerequisites: RAD 160
key departments and personnel, and to the profession as a whole. Basic principles of radiography, radiation protection, and other pertinent safety issues are introduced. Prerequisites: None	RAD 162 - Clinical Radiography III
key departments and personnel, and to the profession as a whole. Basic principles of radiography, radiation protection, and other	This clinical course continues to provide the student with exposure to the practice of radiography and takes place in various diagnostic imaging departments. The student develops and refines skills in patient management, equipment manipulation, positioning, technical factors selection, and image evaluation. Prerequisites: RAD 161 anb BIO 121
key departments and personnel, and to the profession as a whole. Basic principles of radiography, radiation protection, and other pertinent safety issues are introduced. Prerequisites: None RAD 105 - Intro Patient Care/Radiography(3:2:2) This course provides the radiography student with in-depth	This clinical course continues to provide the student with exposure to the practice of radiography and takes place in various diagnostic imaging departments. The student develops and refines skills in patient management, equipment manipulation, positioning, technical factors

of knowledge and prepare for the American Registry Examination for Radiologic Technologists (A.R.R.T.). Prerequisites: RAD 260	RCT 130 - Intro to Respiratory Care(7:6:2) Course is designed to introduce the student to the delivery of respiratory care. Emphasis is placed on principles of gas flow,
RAD 230 - Radiographic Procedures III (3:2:2) This course is designed to provide the student with the knowledge necessary to perform skull, facial bones, arthrography, myelography, sialography, venography, mammography, hysterosalpingogram,	pressure regulation, production, and storage. Also addressed will be the theory, equipment, and procedures of oxygen therapy. Pre-requisites: MAT 153 or MAT 130 and RDG 120
pelvimetry/fetogram, bronchogram, lymphangiogram, and dacryocystography. Optimal radiographic production, contrast administration, and anatomy identification are supported by energized laboratory experience. Prerequisites: RAD 131	RCT 140 - Pulmonary Physiology
RAD 240 - Radiographic Imaging Equipment(3:3:0)	
This course provides the student with knowledge of equipment routinely utilized to produce diagnostic images. This includes x-ray generating equipment, various recording media and techniques, and other imaging modalities and equipment. Computer application	RCT 189 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
in radiology is also discussed. Prerequisites: RAD 141	RCT 210 - Neonatal/Ped Respiratory Care(3:3:0)
RAD 250 - Radiographic Pathology(2:2:0) This course provides the student with an introduction to the concepts of disease. Pathology as it relates to various radiographic	Course is designed to further the student's understanding of neonatal and pediatric disease and effective delivery of respiratory care to these patients. Prerequisites: RCT 231 Co-requisites: RCT 232 and RCT 252
procedures is discussed. Prerequisites: RAD 260 and BIO 121	RCT 231 - Respiratory Care Procedures I(4:3:2) Course is designed to give the student knowledge necessary to
RAD 260 - Clinical Radiography IV(5:0:24)	effectively administer basic respiratory care modalities. Included
This course is the fourth in a series which provides the	are positive pressure breathing, SMI, chest physical therapy,
student with exposure to the practice of radiography. This clinical education course takes place in various radiology	aerosolized medications, and bedside pulmonary function testing. Prerequisites: RCT 130 Co-requisites: RCT 251
departments. The student develops and refines skills in patient	
management, equipment manipulation, positioning, technique manipulation and film evaluation. Prerequisites: RAD 162	RCT 232 - Respiratory Care Procedures II(7:6:3) This course is a continuation of RCT 231 Respiratory Care
RAD 261 - Clinical Radiography V(5:0:24)	Procedure I. It is designed to provide knowledge of and rationale
This course is the fifth in a series which provides the	for more advanced respiratory care techniques, such as those associated with artificial airways and mechanical ventilation.
student with exposure to the practice of radiography. This	Prerequisites: RCT 231 Co-requisites: RCT 210 and RCT 252
clinical education course takes place in various radiology departments. The student develops and refines skills in patient	P07 000 0 T 1 1 P 1 0
management, equipment manipulation, positioning, technique manipulation and film evaluation. Prerequisites: RAD 260	RCT 233 - Spec Topics in Respratory Care(4:4:0) This course provides the student with knowledge of advanced concepts in respiratory care associated with support of the critically ill patient. Prerequisites: RCT 232 Co-requisites: RCT 253
RAD 262 - Clinical Radiography VI(3:0:15)	iii patietit. Prefequisites. Not 232 60-fequisites. Not 233
This course is the final unit which provides the student with	RCT 241 - Pulmonary Pathophysiology I(3:3:0)
the necessary exposure to the practice of radiography. This clinical education course takes place in various radiology	Pulmonary Pathophysiology I will introduce the student to
departments. The student develops and refines skills in patient	evaluation of the patient with pulmonary disease. This will include signs and symptoms, physical assessment, chest radiography,
management, equipment manipulation, positioning, technique manipulation and film evaluation. Prerequisites: RAD 261	pulmonary function, and pertinent laboratory tests. Also addressed will be obstructive lung diseases. Assessment and decision for care are emphasized. Prerequisites: RCT 140 and BIO 121
RAD 270 - Digital Image Acquistn/Display(2:2:0)	outo are emphasized. Free equisition. Free and Die 121
This course provides the student with an in-depth knowledge of the principles of digital imaging. Image acquisition, characteristics, display and quality assurance are presented. The basic principles of Computer	RCT 242 - Pulmonary Pathophysiology II(4:4:0) Pulmonary Pathophysiology II introduces the student to patterns
Tomography (CT) are also discussed. Prerequisites: RAD 240	of restrictive lung disease. Topics include pneumonias, fibrotic lung disease, pulmonary neoplasms, disorders of pulmonary circulation, diseases of the pleura and thoracic wall, neuromuscular
RAD 289 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have	diseases, aspiration, trauma, and ards. Prerequisites: RCT 241
written prior approval of the department chairperson.	RCT 243 - Pulmonary Function Studies(2:1:3)
RCT 120 - Pharm for Respiratory Care(3:3:0) This course is designed to prepare students with a basic understanding	This course covers pulmonary function and exercise testing with an emphasis on interpretation and clinical application. Prerequisite: RCT 140
of pharmacological principles and therapeutic applications with	RCT 244 - Cardiopulmonary Assessment(5:3:6)
relationship to healthcare practice. Special emphasis will be placed upon therapeutic agents used in respiratory care. Prerequisites: BIO 120 and CHM 110 and MAT 153 and (Test score or RDG 120)	This course covers both diagnostic and rehabilitative theory and technique including Advanced Cardiac Life Support Certification,

RCT 130 - Intro to Respiratory Care(7:6:2)

of knowledge and prepare for the American Registry Examination

120 and CHM 110 and MAT 153 and (Test score or RDG 120).

ABG equipment, pulmonary function studies, EKG studies,	
exercise testing, hemodynamics, chest x-rays/scans, fiberoptic	
brochoscopy, and pulmonary rehabilitation. Emphasis is placed	
on clinical application and interpretation. Prerequisites: RCT	
210 and RCT 232 and RCT 242. Co-requisite: RCT 253	

RCT 251 - Clinical Respiratory Care I(2:0:8)

This course applies respiratory care techniques in a patient care setting. Topics include application of infection control, patient assessment, oxygen therapy, bronchial hygiene, aerosol therapy, and professional communication. Prerequisites: RCT 130 and (Test Score or RDG 120) and (Test Score or ENG 121) or (Test Score or ENG 102 or ENG 122).

RCT 252 - Clinical Respiratory Care II(3:0:16)

This course is a continuation of RCT 251 Clinical Respiratory Care I. The student will, under supervision, apply more advanced respiratory care modalities, such as bronchial hygiene techniques, as well as care of patients with artificial airways and introduction to mechanical ventilation. Prerequisites: RCT 251 Co-requisites: RCT 210 and RCT 232

RCT 253 - Clinical Respiratory Care III......(5:0:24)

This course is designed to provide the student with practice in all aspects of respiratory care. It is an advanced course with emphasis on care of the critically ill adult, pediatric, and neonatal patient in a variety of settings. Prerequisites: RCT 252

RCT 289 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

RDG 005 - Basic Reading.....(4:4:0)

A developmental course designed to improve vocabulary and comprehension skills. Additional resources are available for skill enhancement. Prerequisites: None

RDG 051 - Pre-Tech Reading.....(4:4:0)

A review course designed to improve vocabulary and comprehension skills and to increase reading flexibility. Additional resources are available for skill enhancement. Prerequisites: Test score or RDG 005 or ENG 006 or NCS 052 or ESL 100 or RDG 120.

RDG 120 - Critical Reading & Thinking.....(3:3:0)

A college-level course designed to improve study skill efficiency, reading comprehension, vocabulary, critical reading and thinking. Additional resources are available for skill enhancement. Prerequisites: (Test score or RDG 051 or NCS 052 or ENG 099 or ESL 100) and (Test score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125).

RDG 189 - Approved Technical Elective(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

RDG 289 - Approved Technical Elective(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

SCI 100 - Environmental Monitoring Techn.....(1:0:2.5)

Students will be introduced to hands-on field and laboratory techniques in biology, biotechnology and chemistry to monitor the environment. Prerequisites: (Test scores or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test scores or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120) and (Test scores or MAT 012 or NCS 012 or MAT 015 or NCW 045

or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 182).

SCI 101 - The World: An Owner's Manual(2:2:0)

Scientific literacy is important to understand how the world and society works. This course explores important issues of the day such as global climate change, drug-resistant bacteria, global information systems, and invasive species. Basic concepts in earth science, human health and technology will be discussed. Prerequisites: (Test scores or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test scores or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120).

SCI 112 - Science Crs Success Strategies(1:1:0)

This class is designed to improve learning and comprehension in the science courses that precede major classes. Student success, learning styles, time management, problem solving, and effective study skills will be covered. Prerequisites: (Test score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120) and (Test score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125)

SCI 130 - Introduction to Research(2:2:0)

Research is integral to many fields of study. This course investigates the components of a research project including scientific principles, prjoect design, documentation, communication, and professional ethics and behavior. Prerequisites: Test score or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test scores or MAT 012 or NCS 012 or MAT 015 or NCW 045 or MAT 075 or MAT 090 or MAT 119 or MAT 120 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181 and Test scores or RDG 051 or NCS 052 or ESL 100 or RDG 120.

SCI 141 - Nutrition in the Culinary Fld(2:2:0)

This course, which is designed for students in the culinary or food service management field, covers the basic principles that apply to the connection between good nutrition and healthy menu planning and development. Prerequisites: (Test Score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test Score or MAT 012 or NCS 012 or MAT 015 or MAT 119 or MAT 120 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181) and (Test Score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120).

SCI 206 - Pesticide Principles and Apps.....(3:3:0)

This course examines the principles of insects, weed and disease control in agricultural crops, horticultural plants and turf, integrated pest management, economics and safety. Prerequisites: (Test score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120) and (Test score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test score or MAT 012 or NCS 012 or MAT 015 or MAT 090 or MAT 119 or MAT 120 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181) and AGS 105.

SCI 223 - Applied Ecology(3:3:0)

This course offers an exploration of the ecology of plant form, function, abundance and diversity. Topics include plant adaptations to environmental conditions, life history variation, competitions, and mid-Atlantic native plant distribution. Prerequisites: (Test score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120) and (Test score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test score or MAT 012 or NCS 012 or MAT 015 or MAT 090 or MAT 119 or MAT 120 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181)

SCI 230 - Research Methodology (3:2:3)

To successfully conduct undergraduate research, students require an in-depth knowledge of the scientific process. This class investigates experimental design, data collection, statistical

analysis, scientific integrity, and communication within the context of ongoing research projects. Prerequisites: (NCJ 130 or SCI 130) and (Test score or RDG 120) and (Test score or MAT 075 or MAT 090 or MAT 140 or MAT 153 or MAT 181 or MAT 185) and (BIO 150 or CHM 150 or PHY 171 or PHY 281).

SCI 240 - Turfgrass Physiology.....(3:2:2)

This course is an introduction to the science of turf grasses. Students will develop an understanding of turf grass growth, development, and adaption, cultural practices used to manage turf grasses, pest problems, and establishment methods. Students will be exposed to the various grasses used in turf grass management. Topics covered will be identification, growth and development, seasonal grasses, turf grass environment and an overview of cultural practices will be discussed. Prerequisites: AGS 101 and AGS 105

SGT 100 - Intro to Surgical Technology(2:2:0)

An introduction to surgical technology focusing on selected aspects in the development of surgical technology as a technical profession. Topics include professionalism, communication, biomedical science, the biopsychocial needs of the surgical patient, ethical/legal issues specific to the perioperative setting, patient, and work place safety. Prerequisite: Test Score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120

SGT 200 - Surgical Technology I(7:4:8)

This course highlights the basic knowldege and fundamental techniques necessary for assuming the responsibilities of a surgical technologist. Preoperative and intraoperative patient care concepts, with both non-sterile and sterile responsibilities, are emphasized. This course also introduces skill development related to intrumentation, equipment, patient transportation, surgical positioning, and preoperative patient preparation. Prerequisites: BIO 100, BIO 121, BIO 125, CIS 107, ENG 102, (MAT 130 or MAT 140 or MAT 119 or MAT 129), SGT 100 Corequisite: SGT 202

SGT 202 - Pharmacology.....(2:2:0)

This course will provide students with foundation in pharmacology. This will prepare the student to safely and appropriately prepare and manage operating room medications and solutions. Prerequisites: BIO 121 and BIO 125 and SGT 100.

SGT 210 - Surgical Technology II.....(7:4:10)

This course will review the surgical specialties and focus on the diagnostic and surgical interventions and complications. Knowledge and skills for effective performance as a scrubbed member of the operating room team are reinforced. Focus is placed on the responsibilities of the surgical technician in intraoperative case management during intermediate surgical interventions. Prerequisites: SGT 200 and SGT 202. Corequisite: SGT 211

SGT 211 - Surgical Tech Clinical I(2:0:9)

This course will be clinical rotations in the operating room of affiliated healthcare institutions. Knowledge and techniques essential to effective performance as a scrubbed member of the surgical team will be stressed as the student develops and improves skills as the scrub person. Progression to solo scrub experience is expected. Prerequisites: SGT 200 and SGT 201. Corequisite: SGT 210

SGT 220 - Surgical Technology III(4:3:4)

This course is a continuation of SGT 210. Knowledge and skills for effective performance as a scrubbed member of the operating room are stressed. The responsibilities of the surgical technician in the care and safety of the patient during and after surgical

intervention in both general and specialty field surgery are reviewed. Prerequisites: SGT 210 and SGT 211. Corequisite: SGT 221

SGT 221 - Surgical Technolgy Clinical II(5:0:24)

This course will be clinical rotations in the operating room of affiliated healthcare institutions. Learning experiences in advanced surgical interventions in general and specialty surgery are included. Focus is on the student assuming an independent role as a surgical technician to facilitate transition from student to graduate. Prerequisites: SGT 210 and SGT 211. Corequisite: SGT 220

SMT 110 - Occupational Safety/Health Act.....(3:3:0)

The scope and elements of the Occupational Safety and Health Act are covered. The duties and responsibilities of employers and employees under the OSHA Act are discussed. Students are taught to interpret and apply sections of the law in practical exercises. Prerequisites: None.

SMT 120 - Dsgning Safe Work Environments.....(4:3:3)

The role of the safety manager in creating safe working conditions is discussed. Safety techniques and programs for construction sites, vehicle operations, factories, offices, and laboratories are presented. Hazardous processes, working with electrical equipment and power tools will also be covered. Prerequisite: SMT 230

SMT 189 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

SMT 210 - Industrial Hygiene I.....(3:3:1)

The fundamentals of the causes and prevention of occupational illnesses and diseases are covered. Chemical, noise, and environmental exposures are discussed in the context of the workplace. Students perform lab exercises designed to apply theories to actual problem solving. Prerequisites: None

SMT 221 - Industrial Hygiene II.....(3:2:2)

This advanced course deepens and broadens the student's understanding of occupational health issues. Air, noise, and chemical sampling equipment and techniques are covered in lab exercises. Prerequisites: SMT 210

SMT 230 - Ergonomics.....(3:3:0)

The engineering science of adapting the work environment to the physiological needs of the human worker is presented. The mechanics and results of repetitive motion injuries are discussed and solutions offered. Prerequisites: None.

SMT 289 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

SOC 103 - Sustainability and Society.....(3:3:0)

This course provides an introduction to contemporary sustainability topics using the "3E" (economics, equity, and the environment) framework. Topics may include sustainability impacts of land use, energy, water use, agriculture, economics, policy, social issue, and natural resource. Prerequisites: (Test Score or MAT 012 or NCS 012 or MAT 015 or MAT 119 or MAT 120 or MAT 130 or MAT 140 or MAT 141 or MAT 150 or MAT 153 or MAT 181) and (Test Score or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test Score or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120)

SOC 111 - Sociology(3:3:0)

This course provides an analysis of American social organization and

culture, through a cross-cultural perspective. Sociology investigates, describes and analyzes patterns of human behavior in all areas of human experience for the purpose of understanding the human condition. Pre-requisites: (Test Scores or ENG 051 or ENG 099 or NCS 051 or ESL 100 or ENG 121 or ENG 125) and (Test Scores or RDG 051 or NCS 052 or ENG 099 or ESL 100 or RDG 120) SOC 125 - Honors Sociology	SPA 136 - Spanish Communication I
This course, which has higher level standards, fulfills the requirement for SOC 111-Sociology I. It emphasizes writing in a variety of modes, focuses on an analysis of American social organization and culture, including relations to other cultures, and integrates the topic of technology and its influences. Prerequisites: Test score or RDG 120	SPA 137 - Spanish Communication II
SOC 189 - Approved Technical Elective	SPA 138 - Spanish Communication III
An introduction to the social process found in the health care system, including those within the group, institutional, and	is a major focus of the course. Prerequisites: SPA 137
community medical environments. Prerequisites: Test score or ENG 051 or ENG 121 and Test score or RDG 051 or RDG 120	SPA 139 - Spanish for Heritage Speakers(4:4:0) In this course for native/heritage Spanish speakers, students develop, maintain and enhance their Spanish language
SOC 215 - Business Ethics	proficiencies in the reading, writing, speaking, listening, and cultural competencies. Students use Spanish for a variety of personal, academic, and community interactions with diverse audiences. Prerequisites: Student must be a fluent native/heritage speaker of Spanish with some reading and writing proficiency.
PrerequisitesL BUS 101 and (Test score or ENG 121 or ENG 125). SOC 221 - Human Diversity(3:3:0) This course is designed to increase the student's awareness, tolerance,	SPA 189 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
and appreciation for participation in an increasingly complex and diverse human landscape. This course will have a double focus: one will be an historical approach to intercultural relationships, and the other will be an analysis of the current success in incorporating	SPA 289 - Approved Technical Elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.
the emerging diverse minorities into our general social fabric. Prerequisites: Test score or ENG 051 and Test score or RDG 051	SSC 100 - First Year Seminar (1:1:0) N/A
SOC 224 - Family Structures	SSC 101 - Career Exploration & Planning(1:1:0) This course introduces the process for exploring careers and developing an appropriate career plan. Students will use the results of comprehensive self-assessments to research career options and make informed and realistic career decisions. Prerequisite: None
SOC 289 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	SSC 104 - Learning Through Service(1:1:0) This course introduces students to the value of service
SPA 133 - Using Beginning Spanish(3:3:0) Recommended for those who have had no prior study of Spanish or who need a basic working knowledge of the language, this	learning by combining community service with academic instruction, focusing on critical, reflective thinking and personal and civic responsibilities. Prerequisites: None
course allows students to focus on the fundamentals: sounds, basic greetings, and simple grammatical structures. Real-life communication will take place in Spanish. Prerequisite: None	SSC 106 - Introduction to Leadership(1:1:0)
SPA 135 - Spanish for Health Care Worker(3:3:0) This course prepares students to use Spanish for basic communications in health care situations, for example, making appointments and discussing medical histories, injuries, test	SSC 108 - Learning with Technology
procedures. Focus is also on cultural patterns and attitudes toward health care issues. Prerequisites: SPA 133 or SPA 136.	SSC 114 - Diversity Relations/College Ex(1:1:0)

culture, through a cross-cultural perspective. Sociology investigates,

SPA 136 - Spanish Communication I(4:4:1)

A course that examines, cultivates, and uses diversity knowledge, skills, and abilities as a catalyst to analyze and change ways of thinking and performing diversity communications. A brief background of each ethnic group is provided, as well as information about the worldview or orientation that guides a synthesis and evaluation of course competencies into an action plan indicative of the College and various diversity missions. Prerequisites: None

SSC 115 - Research Success Strategies.....(1:1:0)

This course introduces the student to basic information literacy skills which include how to access, locate, evaluate and use information sources in a variety of formats. Students will gain an understanding of the role of library resources in the research process. Topics include how to create a search strategy for finding information, use print and electronic resources to locate information, critically evaluate and analyze information sources, and how to properly cite the information. Prerequisites: None

SSC 117 - Brain Power(1:1:0)

The human brain is the most complex organ in the body. This course examines how the brain functions and explores how it regulates basic body functions and responses. Topics include brain development, healthy brain lifestyle choices, and the effects and dangers of drug and alcohol use. Prerequisites: None

SSC 130 - Where's My Money(1:1:0)

This course, an overview and application of money management, introduces concepts of financial goals within earning, budgeting, spending, and resources in banking to provide a solid foundation for financial success. Students develop a financial plan to promote a healthy standard of living. Prerequisites: None

SSC 131 - Are You Credit Worthy?(1:1:0)

This course covers obtaining and maintaining access to credit using credit cards, bank cards, and other means. Students develop a plan to establish good credit, discuss the advantages and disadvantages of consumer credit, and explore the various sources of consumer loans. Prerequisites: None

SSC 132 - Planning for the Beach.....(1:1:0)

This course allows students to determine what kind of lifestyle they want to have in the future and how much money is needed at that time to maintain it. Students develop an understanding of the power of compounding, the knowledge to select investments based on their own risk/reward preferences, and the ability to calculate how much they need to save today to reach their financial plan. Prerequisites: None

SSC 202 - Strategies to Find/Keep a Job.....(1:1:0)

This course introduces students to the tools necessary for success in their selected career field. Students will understand the skills and tools essential for an effective job search. Professional behaviors expected in the workplace are discussed. Prerequisite: None

SSS 101 - Mastering College Life(1:1:0)

This course is designed to provide any Delaware Tech student with the information necessary to understand and use college procedures, policies, and services. These include, but are not limited to, grading policies, study skills and strategies, learning styles, registration procedures, student rights and responsibilities, introduction to technologies, and student services. Prerequisites: None

SSS 103 - Adult Learner Success Strategy.....(1:1:0)

While all students need help adjusting to college life, adult students

need special attention if they are to succeed. This course will guide students in increasing their ability to handle the multiple pressures of being an adult student. Topics will include, but are not limited to, balancing college and work, improving efficiency and effectiveness with new learning strategies, thriving under pressure, and gaining support of family and friends. Activities and discussions will focus on behaviors which contribute to a successful and positive college experience. Prerequisites: None

SSS 105 - A College & Life Skills Course.....(1:1:0)

The purpose of this course is to enhance your skills and knowledge in both life management and academic planning. Course topics include: money management; interviewing and resume writing skills; college application process; science, math and English success strategies; value of higher education. This course is designed to help you succeed and stay on track toward your life and educational goals! Prerequisites: None

SSS 106 - Becoming a Peer Helper.....(1:1:0)

The purpose of this course is to build peer helping and leadership skills. Peer helping builds upon the natural helping skills and relationships which exist among students. Peer helpers will be trained to listen, share experiences, assist with decision making and provide support and practical assistance with their fellow students. Prerequisites: None

SSS 107 - Tutorial Support Course.....(1:1:0)

This course is designed to provide any Delaware Tech student (tutor) with the information necessary to offer academic support to students (tutees). Instruction includes, but is not limited to, tutorial procedures and policies, tutor's role and responsibilities, study skills and strategies, learning styles, and diverse student population. Prerequisites: None

TDT 101 - Tractor-Trailer Driver Trainin......(12:7:14)

Drivers aree trained to safely, legally, and efficiently operate a tractortrailer, and to teach knowledge of the non-driving duties required for drivers to operate in interstate commerce. Prerequisites: None

TDT 189 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

TDT 289 - Approved Technical Elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

VAS 111 - Vascular Techniques I(3:3:1)

This course introduces the student to the basic, vascular, physical principles and instrumentation; vascular physiology and hemodynamics; vascular anatomy; and fundamental skills and principles needed to perform peripheral arterial evaluation of the upper and lower extremities. Prerequisites: BIO 120 and DMS 106.

VAS 112 - Vascular Techniques II(3:3:1)

This course is a continuation of VAS 111 Vascular Techniques I. Emphasis is placed on the fundamental skills and principles needed to perform peripheral venous evaluation of the upper and lower extremities. Evaluation of cerebrovascular, intracranial Doppler is alson introduced. Introductory clinical experiences integrate previously learned principles. Prerequisites: VAS 111

VAS 189 - Approved Technical elective.....(3:0:0)

Students may complete technical electives for which they have written prior approval of the department chairperson.

VAS 213 - Vascular Techniques III	VET 205 - Small Animal This is a survey course in the i of companion animals. The etio
and evaluate abdominal aorta, IVC, liver vasculature, mesenteric arteries and renal vascultures Prerequisites: VAS 112	prevention (including dentistry) be covered. The role of the vete the public on common diseases
VAS 289 - Approved Technical elective	discussed. A good knowledge of physiology are necessary for the Prerequisites: VET 120 and VET
VET 101 - Intro to Veterinary Technology	VET 210 - Veterinary CI This course will provide basic lead pathology covering theory and chemistry, urinalysis, microbiol introduction to the common into small animals will be covered. It is skills and use of diagnostic equential prerequisite: VET 201 and CHM
VET 102 - Veterinary Anatomy(3:2:3)	VET 221 - Veterinary Nu This course will give the veterin
This course introduces the student to comparative anatomy of	and technical skills in medical r
common domesticated species. Anatomical relationships to clinical conditions will be discussed. The laboratory will reinforce gross and	care and first aid, physical exan nutrition, and disinfecting/clean
microscopic structural differences between species through examination of skeletons and/or slides, cadaver specimens, and radiographs. Prerequisites: (BIO 140 or BIO 150) and CHM 100 and MAT 153.	be discussed. Laboratory sessi- lecture. Prerequisites: VET 110
Frelequisites. (BIO 140 01 BIO 130) and Ornor 100 and WAL 133.	VET 222 - Veterinary Nu
VET 110 - Veterinary Physiology(3:2:3)	This course will give the veterior and technical skills in surgical a
This course introduces the student to the physiological processes carried out by the major tissues and organ systems in the	sterile technique, description ar
domesticated species of animals. Regulatory mechanisms and	surgical procedures, preparatio of the surgical suite. Anesthesic
homeostasis are discussed. The laboratory will reinforce the application of physiology to function and dysfunction as seen in veterinary medicine. Prerequisites: VET 101 and VET 102	drugs, patient preparation, mor the patient. Topics in veterinary medicine will be covered. Labor
VET 120 - Breeds And Behavior (2:2:0)	learned in lecture. Prerequisites
This course is an overview on the common breeds of domesticated animals. Breed characteristics and disease predisposition of common breeds will be discussed in class. Fundamental principles of animal behavior, including patterns of behavior, evolution of behavior, and abnormal behavior will be discussed. These principles will be applied	VET 224 - Lg Animal/Eq This course involves large anim management for the veterinary introduction to nursing and hea
to teach students proper animal restraint in a variety of settings. Pet selection, behavior modification, human-animal bond, and pet training will be discussed using clinical scenarios. Prerequisites: Vet 101	be expected to provide in a vete of livestock and equine includin approaches, and vaccinations v
VET 140 - Pharmacology for Vet Techs(3:2:3)	VET 230 - Research Ani This course prepares students
This course will provide study in the area of veterinary drugs and medicines. Topics include classes and actions of drugs, calculating dosages, administering medications, pharmacy maintenance, drug dispensing laws and procedures, laboratory safety and	animals used in research. Labo on training in restraint, drug ad anesthesia, and research techni husbandry, diseases, and sanita
pharmacy record keeping. Prerequisites: VET 101 and VET 102	and ethics of animal research. F
VET 145 - Exotic Animal Care and Mgmt (1:1:0) This course provides an overview of exotic animal medicine and surgery as it applies to the veterinary technician. Topics include	VET 235 - Diagnostic In This course provides students
nursing care, anatomy and physiology, nutrition, husbandry, behavior, common diseases, handling, and surgery and anesthesia of the most common exotic animals will be covered. Prerequisites: VET 110	information and experience nee medical radiographs. Other me ultrasonography, will be discus
VET 189 - Approved Technical elective (3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	VET 250 - Vet Tech Inte This course is designed to give prior to the graduation from the This course will provide clinical the techniques required for vete

VET 205 - Small Animal Health & Disease(3:3:0)

This is a survey course in the infectious and noninfectious diseases of companion animals. The etiology, diagnosis, treatment, and prevention (including dentistry) and vaccination programs will be covered. The role of the veterinary technician in educating the public on common diseases and their clinical signs will be discussed. A good knowledge of comparative anatomy and physiology are necessary for the successful navigation of this course. Prerequisites: VET 120 and VET 110 and VET 140 and MLT 130.

VET 210 - Veterinary Clinical Pathology(3:2:3)

This course will provide basic backgroound in veterinary pathology covering theory and techniques in hematology, chemistry, urinalysis, microbiology, cytology, and toxicology. An introduction to the common internal and external parasites of small animals will be covered. Practical application of laboratory skills and use of diagnostic equipment is taught in the laboratory. Prerequisite: VET 201 and CHM 111 and MLT 120 and BIO 250

VET 221 - Veterinary Nursing I(3:2:3)

This course will give the veterinary technician student theoretical and technical skills in medical nursing. Topics include basic animal care and first aid, physical examination, administration of medication, nutrition, and disinfecting/cleaning. Fluid therapy administration will be discussed. Laboratory sessions reinforce the concepts learned in lecture. Prerequisites: VET 110 and VET 120 and VET 140 and MLT 130.

VET 222 - Veterinary Nursing II.....(3:2:3)

This course will give the veterinary technician student theoretical and technical skills in surgical and anesthesia nursing. Topics include sterile technique, description and use of surgical equipment, common surgical procedures, preparations of surgical patient, and preparation of the surgical suite. Anesthesiology will be discussed including drugs, patient preparation, monitoring, and post-operative care of the patient. Topics in veterinary dentistry and advanced emergency medicine will be covered. Laboratory sessions reinforce the concepts learned in lecture. Prerequisites: VET 205 and VET 210 and VET 221.

VET 224 - Lg Animal/Equine Nurs/Hith Mgt(4:3:3)

This course involves large animal and equine nursing and health management for the veterinary technician. This course provides an introduction to nursing and health management that a technician will be expected to provide in a veterinary practice. Common diseases of livestock and equine including basic therapeutic or diagnostic approaches, and vaccinations will be discussed. Prerequisites: VET 221

VET 230 - Research Animal Technology(3:2:2)

This course prepares students to work with a variety of animals used in research. Laboratory sessions provide handson training in restraint, drug administration, sample collection, anesthesia, and research techniques. Lectures will cover husbandry, diseases, and sanitation, as well as the principles and ethics of animal research. Prerequisites: VET 205

VET 235 - Diagnostic Imaging(3:2:3)

This course provides students with theoretical and practical information and experience needed to produce diagnostic veterinary medical radiographs. Other methods of diagnostic imaging, including ultrasonography, will be discussed. Prerequisites: VET 205 and VET 221.

VET 250 - Vet Tech Internship(5:0:15)

This course is designed to give students "hands-on" experience prior to the graduation from the Veterinary Technology program. This course will provide clinical learning situations for developing the techniques required for veterinary technicians in small and/or

large animal surgery, medical nursing, clinical pathology, diagnostic imaging, and ancillary areas. Students are assigned to 240 hours
working in a variety of clinical and field service settings under the direction of a qualified veterinarian and/or licensed veterinary technician.
Prerequisites: VET 222 and VET 224 and VET 235 and VET 230.

VET 289 - Approved Technical Elective.....(3:1:8)

Students may complete technical electives for which they have written prior approval of the department chairperson. Prerequisite: VET 101 or VET 101 concurrently.

VSC 109 - Drawing I.....(4:3:3)

Fundamentals of drawing; use of line, shape, shading, and pictorial composition through the study of nature, still life arrangements, the human figure, landscapes, etc. Includes introduction to drawing media, such as pencil, pen and ink and charcoal. Prerequisites: None

VSC 115 - Intro To Design....(3:2:2)

This class is an introduction to the principles and techniques of visual communications and interior design. Emphasis will be placed on the development of problem solving skills required by designers in both disciplines. Key elements of design will be examined in conjunction with training in basic production skills. Prerequisites: Test score or RDG 005 and Test score or ENG 005 and Test score or MAT 005

VSC 125 - Color And Composition.....(3:2:2)

Extensive work in applied color theory combined with the study of compositional formats and styles. Focus will be on application of these concepts in realistic interior and graphic design projects. Prerequisites: Test Score or RDG 005 and Test Score or ENG 005 and Test Score or MAT 005

VSC 131 - Art History I(3:3:0)

The history of Western art, architecture, and the decorative arts from cave paintings to the height of the Renaissance. Egyptian, Greek, roman, Gothic, and early Renaissance artists and artworks will be examined and discussed as they relate to the history of art and western civilization. Prerequisites: Test score or RDG 005 or RDG 051 or NCS 052 or ESL 032 or ESL 100 or RDG 120 and Test score or ENG 005 or ENG 051 or NCS 051 or ESL 034 or ESL 100 or ENG 121 or ENG 125

VSC 132 - Art History II.....(3:3:0)

This course deals with the history of Western art, architecture, and the decorative arts from the height of the Renaissance to the 21st century. Relationship between art of the various periods and their historical and cultural influences will be explored. Prerequisite: Test score or RDG 051 and Test Score or ENG 005

VSC 133 - History of Graphic Design(2:2:0)

The study of the history and growth of graphic design as it applies to current trends in industry and commerce. The focus will be on a survey of the major innovators and movements in visual communications and advertising in the 20th century. Prerequisite: VSC 115

VSC 134 - Art History Study Abroad(3:3:0)

This course is designed with a study abroad component to immerse the student in the art, architecture, artists, styles, and movements of the designated study abroad location. It will be a focused 3-credit art history course run in distributed format. The art history artifacts will be studied in-place as they are found in the museums and and historical sites of the designated study abroad location(s). Prerequisites: Test scores or ENG 051 or NCS 051 or ESL 100 or ENG 121 or ENG 125 and Test scores or RDG 051 or NCS 052 or ESL 100 or RDG 120

VSC 135 - Non-Western Art Survey(3:3:0)

This is a survey course of the diverse art of the non-western world. The art of Africa, Native American, India, China, etc., will be examined. Largely ignored in traditional art history courses, non-western art has had a great cultural and stylistic influence on today's art world. Prerequisite: Test Score or RDG 051 and Test Score or ENG 005

VSC 155 - Typography And Layout(3:2:2)

This course examines the history of type and typesetting, modern methodologies and principles, and the aesthetics of good typographic design. Students will strengthen their use of type as a design element through a variety of projects ranging from elementary exercises to intermediate and advanced presentations. Prerequisites: VSC 115 and VSC 160

VSC 160 - Computer Graphics I(4:3:2)

Students will be introduced to the computer as an artistic medium. The basics of the Macintosh operating platform and Adobe Photoshop and QuarkXPress software will be emphasized. Students will become proficient in the use of these important computer graphic software packages through a series of beginning to intermediate projects. Prerequisites: Test score or RDG 005 and Test score or ENG 005

VSC 161 - Computer Graphics II.....(4:3:2)

Students will continue progress initiated in Computer Graphics I and expand their capabilities to include further mastery of Photoshop, QuarkXPress, and additional software skills with the draw program, Adobe Illustrator. Emphasis will be placed on development of professional level projects for inclusion in the student's final portfolio. Prerequisites: VSC 160

VSC 165 - Photography I.....(4:3:2)

This course is an introduction to the 35mm camera and the exposure controls and creative decision making skills necessary to create quality images on film. It will focus on managing the variables of shutter speed, film speed, aperture settings, and other elements. Artistic and aesthetic issues relevant to professional practice also will be explored. Prerequisites: Test score or RDG 005 and Test score or ENG 005 and Test score or MAT 005

VSC 166 - Photography II.....(3:2:4)

Students will expand their knowledge of photography beyond those learned in Photography I and develop a deeper understanding of aesthetic issues. It will focus on the technical aspects of processing black and white film and prints and explore the students' personal creativity and vision. Prerequisites: VSC 165

VSC 175 - Print Production Processes.....(2:1.5:1)

A study of the processes used in the printing industry. Emphasis will be placed on terminology, practices, and techniques for effectively communicating with printing professionals. Class projects will develop the students' ability to design within the parameters necessary to insure a printable solution. Prerequisites: VSC 155 and VSC 160

VSC 181 - CorelDraw(4:3:2)

An introduction to CorelDraw, a PC-based graphic design software package. Emphasis will be placed on illustrative and text handling capabilities of the software through exercises and projects. This serves as a valuable cross-training course for visual communications students. Prerequisites: Test score or RDG 005 and Test score or ENG 005

VSC 185 - Advanced Drawing.....(3:2:2)

Self-paced study of advanced techniques in a selected drawing

permission of the department chairperson. Prerequisites: VSC 109	In this class, students will learn advanced concepts as they build on skills mastered in earlier computer graphics classes. Students will be introduced to designing and animating objects using 3-D software
VSC 186 - Advanced Painting(3:2:2) Self-paced study of advanced techniques in a selected painting	and the use of timelines for animation. Prerequisites: VSC 162
media or technique. Targeted for students with skills beyond the	VSC 265 - Motion Graphics(3:2:4)
foundation level or students intending an illustration career. Requires permission of the department chairperson. Prerequisites: VSC 125	A study of the basics of computer animation via foundation level projects. Additional work will be done using traditional animation methods in a digital environment. Prerequisites: VSC 161
VSC 187 - Advanced Illustration(3:2:2)	
Self-paced study of advanced techniques in a selected media or technique. Emphasis will be placed on development of a personal illustrative style. Targeted for students intending to pursue an illustrative career. Requires permission of department chairperson. Prerequisites: VSC 109 and VSC 125 and VSC 165.	VSC 267 - Color Photography
VSC 189 - Approved Technical Elective(3:0:0) Students may complete technical electives for which they have written prior approval of the department chairperson.	VSC 268 - Photo Illustration
VSC 190 - Intro To Videography(3:2:2)	techniques. Using the 4x5 camera, students will explore commercial illustration tools, props, lighting and background requirements needed by the new digital photographer. Prerequisites: VSC 166
Students will learn the basics of video camera operation, lighting, sound, and editing. Emphasis will be placed on lectures and hands-on	needed by the new digital photographer. I relequisites. voo 100
assignments as students prepare to use video production techniques on multimedia projects. Prerequisites: VSC 160 and VSC 165	VSC 270 - Project Management
VSC 251 - Portfolio Workshop	pricing, ethical guidelines, and media specification. Students will develop projects and move them through concept, development, production and delivery. Prerequisites: VSC 115 and VSC 160 and VSC 175
other classes in the student's final semester and culminates with a formal portfolio review presentation. Prerequisites: VSC 115 and VSC 155 and VSC 161 and VSC 165.	VSC 271 - Illustration
VSC 260 - Multimedia Authoring(3:2:4) Students will learn how to script and execute interactive multimedia presentations. Emphasis will be placed on design and techniques	of images for editorial, commercial, and book illustrations. Prerequisites: VSC 109 and VSC 115 and VSC 125 and VSC 160.
through the development of a full multimedia presentation project. Prerequisites: VSC 160 and VSC 161 and VSC 262.	VSC 275 - Self Promotion
VSC 261 - Multimedia Sound	to help them get the attention of potential clients or employers. Emphasis will be on showcasing the student's individual talents through a series of promotional projects. Prerequisites: VSC 155 and VSC 161 and VSC 165
to multimedia presentations. Prerequisites: VSC 160	VSC 281 - Project Elective(3:2:2) Individualized work on a practical field assignment or specified
VSC 262 - Computer Graphics III(4:3:2)	series of assignments that will help prepare the student for
Students will continue progress initiated in Computer Graphics I and II and expand their capabilities to use them in multimedia	the realities of being a visual communications technology professional. Requires approval and sponsorship of the instructor.
applications. Software skills will expand to include Adobe Premier.	Prerequisite: Permission of the department chairperson
Students will complete a four-to-six minute presentation as well	
as other exercises and projects. Emphasis will be placed on development of professional level projects for inclusion in the	VSC 285 - Advanced Project Elective(3:2:4) Advanced level individualized work on a practical field assignment
student's final portfolio. Prerequisites: VSC 115 and VSC 160.	or specified series of assignments that will help prepare the
VCC 2C2 Advanced Multimedia Authoring (4.9.0)	student for the realities of being a visual communications technology professional. Must include scheduling, cost analysis,
VSC 263 - Advanced Multimedia Authoring(4:3:3) In this class students will learn advanced concepts in scripting as	and contractual components. Requires approval and sponsorship
they build on skills mastered in Multimedia Authoring. Advanced	of the department chairperson. Prerequisites: VSC 115
Lingo software and web applications also will be addressed. Requires permission of the department chairperson. Prerequisites: VSC 260	VSC 289 - Approved Technical Elective(3:0:0)
	Students may complete technical electives for which they have

VSC 264 - 3-D Design and Animation(4:3:3)

In this class, students will learn advanced concepts as they build on

written prior approval of the department chairperson.

media or technique. Targeted for students with skills beyond the

foundation level or students intending an illustration career. Requires

VSC 292 - Video Production
WEB 160 - Internet/Web Construction



Associate in Applied Science Degree Programs (A.A.S.)

CAMPUS KEY: T = Dover; O = Georgetown; S = Stanton; W = Wilmington

<u>Program</u>	<u>Campus</u>
Accounting	O,T,W
Advertising Design	Т
Agribusiness Management	O,T,W
Architectural Engineering Technology	O,T,S
Automotive Technology	0,5
Biological Sciences	0,5
Biomedical Option	T
Biotechnology	0,5
Building Automation Systems Option	T
Business Administration Transfer Option	O,T,W
Cardiovascular Sonography	W
Chemical Process Operator	S
Chemistry	5
Chemistry Math Concentration	S S
	0,5
Civil Engineering Technology	
Communications	0
Computer Aided Drafting/Design Technology	S
Computer Engineering Tcy Option	S
Computer Information Systems	O,T,W
Computer Network Engineering Technology	O,T,W
Computing and Information Science	W
Construction Management Technology	O,S,T
Criminal Justice	O,S,T
Culinary Arts	T,S
Dental Hygiene	W
Design Engineering (Mechanical)	0
Diagnostic Medical Sonography: Owens	0
Diagnostic Medical Sonography: Wilmington	W
Drug Alcohol Counseling	T,W
Early Childhood Development	O,T,W
Electrical and Computer Engineering Transfer Option	O,T,S
Electromechanical Engineering Technology	T
Electronics Engineering Tcy	O,T,S
Electronics Engineering Technology Transfer Option	0,T,S
Emergency Medical Technician Paramedic	T
Energy Management	0,T,S
Entrepreneurship	O,T,W
Environmental Technology: Environmental Engineering	0,5
Technology	0,5
Exercise Science	W
Fire Protection	S
Food Safety	0
•	S
Food Service Management	
General Business	O,T,W
Health Information Management	W
Histotechnician	M
Homeland Security and Emergency Management	T
Hospitality Management	T,W
Human Services	O,T,W
Information Security	O,T,W
Instrumentation Option	S
Landscape and Ornamental Horticulture	0
Law Enforcement Option	O,T,S
Management	O,T,W
Marketing	O,T,W
Mechanical Engineering Technology	S



Medical Assistant	W
Medical Laboratory Technician	0
Multimedia	Т
Nuclear Medicine	W
Nursing	O,T,S
Occupational Therapy Assistant	O,W
Office Administration	0
Operations Management	W
Paraeducator	O,T,W
Paralegal	O,T
Photo Imaging	Т
Physical Therapist Assistant	O,W
Production Agriculture	0
Radiologic Technology	O,W
Refrigeration, Heating, & Air Conditioning	0
Renewable Energy Solar	O,T,S
Respiratory Care	O,W
Surgical Technology	Т
Surveying and Geomatics Engineering Technology	O,S
Turf Management	0
Veterinary Technology	0
Web Development	O,T



Business

Accounting

A.A.S. Degree (O,T,W)

As a graduate of the Accounting Program at Delaware Tech, you will use your strong accounting skills along with communication, computation and interpersonal skills on the job every day. A degree from this program, which has earned national accreditation from the Association of Collegiate Business Schools and Programs (ACBSP), sends a clear signal to potential employers that you have completed a high quality business program that meets rigorous educational requirements established by the ACBSP. Your degree will open the door to many different career paths in accounting. Graduates are employed as general staff accountants for business and industry, and frequently enter the areas of auditing, tax accounting and cost accounting.

CORE COURSES

Course	es		<u>Credits</u>
ECO 1	L11	Macroeconomics	3
ECO 1	L22	Microeconomics	3
ENG 1	L01	Crit Thinking & Acad Writing	3
ENG 1	L02	Composition and Research	3
MAT 1	L40	Essentials of College Algebra	4
or			
MAT 1	L53	College Math and Statistics	4

PROGRAM/MAJOR COURSES

<u>Courses</u>		<u>Credits</u>
ACC 101	Accounting I	4
ACC 112	Accounting II	4
ACC 211	Tax Accounting I	3
ACC 221	Cost Accounting I	3
ACC 231	Intermediate Accounting I	3
ACC 232	Intermediate Accounting II	3
BUS 203	Business Law	3
BUS 275	Portfolio/Experiential Lrning	3
MGT 212	Principles of Management	3
FIN 221	Money and Banking	3
or		
MIS 220	Management Information	3
	Systems	
or		
ACC 162	Computerized Accounting	3
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PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>		Credits	
BUS	101	Introduction to Business	3
CIS	107	Intro to Computers/Application	3
MAT	255	Business Statistics I	3
MKT	212	Principles of Marketing	3

CIS	112	Spreadsheet/Graphics Proc	3
or			
OAT	152	Excel Level I	3

Visual Communications

Advertising Design

A.A.S. Degree (T)

The Advertising Design Option of the Visual Communications program is a focused curriculum aimed at training new professional creative talent for the information age. Communicating visual information requires imagination, skill, and talent. While developing skills in key software for print and non-print communications, the program stresses the use of innovative, creative problem solving. As the information highway becomes more and more congested, good design and graphics will be needed to compete for the attention of a visually acute public. A professional in the visual communication industry would be involved in a range of projects from traditional print items such as brochures, publications and stationery to exhibits, signage, audio-visual presentations, and architectural graphics. Graduates of the program may enter careers as in-house designers for corporations, publishers, schools, retailers, and design firms. Many students work as independent, self-employed designers.

CORE COURSES

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3

PROGRAM/MAJOR COURSES

<u>Courses</u>		<u>Credits</u>
VSC 109	Drawing I	4
VSC 115	Intro To Design	3
VSC 125	Color And Composition	3
VSC 133	History of Graphic Design	2
VSC 155	Typography And Layout	3
VSC 160	Computer Graphics I	4
VSC 161	Computer Graphics II	4
VSC 165	Photography I	4
VSC 175	Print Production Processes	2
VSC 251	Portfolio Workshop	4
VSC 262	Computer Graphics III	4
VSC 270	Project Management	2
VSC 271	Illustration	3
VSC 275	Self Promotion	2
VSC 131	Art History I	3
or		
VSC 132	Art History II	3



<u>Courses</u>		<u>Credits</u>
BUS 101	Introduction to Business	3
POL 111	Political Science	3
or		
PSY 121	General Psychology	3
Select 1 c	ourse(s) from:	
VSC 135	Non-Western Art Survey	3
VSC 166	Photography II	3
VSC 181	CorelDraw	4
VSC 185	Advanced Drawing	3
VSC 186	Advanced Painting	3
	Advanced Illustration	3
VSC 190	Intro To Videography	3
VSC 260	Multimedia Authoring	3
	Motion Graphics	3
	Color Photography	4
VSC 268	Photo Illustration	3
VSC 281	Project Elective	3

Applied Agriculture

Agribusiness Management

A.A.S. Degree (O,T,W)

Agriculture plays an extensive and essential part in today's economy. Individuals seeking a career in agriculture and its related occupations will discover the need for a formal education is now greater than ever. The investment in a modern agricultural enterprise is too costly to permit poor planning and preparation. Sound principles of production, management, and marketing are vital to the successful undertaking of an agricultural business. A broad spectrum of agriculture-related careers extends beyond the farm. Employers look to two-year technical colleges for qualified employees, and entrepreneurs look to the associate degree as a means to prepare them for ownership of an agribusiness.

Agribusiness Management prepares students for positions related to the agriculture industry by developing their knowledge of agriculture, business and economics. This program will enable graduates to obtain positions with large corporations, small business or government agencies. Those who desire to be self-employed may choose to own or operate a farm business. Academics combined with real world experience will prepare students for a variety of employment opportunities.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 150	Business Mathematics	3

OI .			
MAT	125	Math for the Trades	4
Selec	t 2 c	ourse(s) from:	
POL	111	Political Science	3
PSY	100	Human Relations	3
PSY	121	General Psychology	3
SOC	111	Sociology	3

PROGRAM/MAJOR COURSES

Cour	ses		Credits
AGS	102	Agricultural Science	3
AGS	104	Intro to Agribusiness Managemt	3
AGS	209	Farm Records & Accounts	3
AGS	212	Intro to Agribusiness Marketng	3
AGS	215	Agriculture Leadership	3
AGS	225	Agriculture Seminar	3
AGS	226	Agribusiness Management	3
		Co-op	
Seled	ct 3 c	ourse(s) from:	
AGS	101	Soil Science	3
AGS	105	Prin of Plant Growth	3
AGS	240	Hydroponics Production	3
AGS	245	Turf Management	3
AGS	250	Greenhouse Crop Production	3

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>	Credits	
BUS 101	Introduction to Business	3
CIS 107	Intro to Computers/Application	3
ECO 111	Macroeconomics	3
MGT 212	Principles of Management	3
OAT 152	Excel Level I	3
Select 1 course(s) from:		
BIO 140	General Biology	4
BIO 150	Biology I	4
BIO 151	Biology II	4
SCI 223	Applied Ecology	3

Architectural Engineering

Architectural Engineering Technology

A.A.S. Degree (O,T,S)

Architectural Engineering Technology is an intensive mixture of architectural, civil, mechanical, and electrical principles as they relate to building design and construction. The curriculum provides a broad base instructional program suitable to numerous aspects of the building industry. Graduates of the Architectural Engineering Technology program may work as engineering technicians in offices of architects; mechanical, electrical, structural, or civil consulting engineering firms; contractors and developers; municipal, state and federal building regulating agencies; facilities/plant management offices for private industry; and building material suppliers and fabricators. Graduates of this program are prepared for immediate productivity in the



profession.

CORE COURSES

	101	Crit Thinking & Acad Writing	Credits 3
		Composition and Research	3
	181	Algebra and Trigonometry I	4
or			
MAT	185	Precalculus	4
Seled	ct 2 c	ourse(s) from:	
CLT	110	Cross-Cultural Immersion	3
ECO	111	Macroeconomics	3
ECO	122	Microeconomics	3
HIS	111	U. S. History: Pre-Civil War	3
HIS	112	U. S. History: Post-Civil War	3
POL	111	Political Science	3
PSY	121	General Psychology	3
SOC	111	Sociology	3
VSC	131	Art History I	3
VSC	132	Art History II	3

PROGRAM/MAJOR COURSES

<u>Courses</u>	Credits	
AET 123	Arch Drafting/Design I	4
AET 125	Arch Drafting/Design II	4
AET 135	Construction Materials/Methods	3
AET 232	Contracts/Specifications	3
AET 236	Building Service Systems	3
AET 250	Arch Drafting/Design III	4
AET 264	Architectural CAD Applications	3
AET 270	Arch Drafting/Design IV	4
AET 275	Arch Dsgn:Foundation Studies I	4

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>			Credits
CMT	234	Cost Estimating/Planning	3
EDD	171	Intro to CAD Using AutoCAD	3
MET	132	Statics	3
MET	242	Strength of Materials	3
MAT	182	Algebra and Trigonometry II	4
or			
MAT	281	Calculus I	4
PHY	205	General Physics I	4
or			
PHY	281	Physics I with Calculus	4

Automotive Technology

Automotive Technology

A.A.S. Degree (O,S)

The Automotive Technology Program allows students to select a practical hands-on Diploma program or a more rigorous Associate Degree option.

Graduates of the Associate Degree option will be

able to perform a variety of preventive maintenance and repair functions on automobiles. Through systematic classroom instruction, completion of required laboratories and structured, mandatory internships, graduates will be able to use printed and electronic information, tools and instruments to diagnose faults and carry out necessary repairs and maintenance procedures.

Graduates of the Diploma program will be able to enter the automotive service industry as entry level technicians. Through the completion of the required pre-tech courses, students completing the Diploma program may transfer their earned credits toward the Associate Degree program. Academically ready students can apply to the program following the guidelines of each location's wait-list process. Interested applicants should review the information provided here and contact their program advisor for program requirements.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ECO 111	Macroeconomics	3
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 120	Math for Behavioral Sciences	3
PSY 100	Human Relations	3

PROGRAM/MAJOR COURSES

<u>Courses</u>		Credits
AUT 114	Intro to Automotive Technology	3
AUT 116	Automotive Electrical	5
AUT 118	Auto Steering & Suspension	3
AUT 119	Automotive Brake Systems	3
AUT 122	Auto Air Conditioning/Heating	3
AUT 123	Work Experience I	3
AUT 202	Automotive Engine Repair	3
AUT 203	Automotive Engine	6
	Performance	
AUT 205	Manual	3
	Transmissions/Transaxle	
AUT 208	Automatic Transmissions	3
AUT 223	Work Experience II	3

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>	<u>Credits</u>	
CIS 107	Intro to Computers/Application	3
MET 123	Modern MFG Techniques	3
MGT 212	Principles of Management	3
SOC 103	Sustainability and Society	3
ENT 101	Intro to Entrepreneurship	3
or		
BUS 101	Introduction to Business	3

Biotechnology



Biological Sciences

A.A.S. Degree (O,S)

The Biotechnology: Biological Sciences program is designed to meet the needs of students who intend to pursue a bachelor's degree in biotechnology or biological sciences. The curriculum provides a theoretical and practical education in various aspects of biology and chemistry that can be applied to diverse careers in the medical, environmental, industrial, and agricultural fields. Standard techniques used in science laboratories are covered, and special emphasis is placed on science and math instruction to prepare students for upper-level course work.

CORE COURSES

<u>Courses</u>	<u>Credits</u>	
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 281	Calculus I	4
PSY 121	General Psychology	3
SOC 111	Sociology	3

PROGRAM/MAJOR COURSES

	<u>Credits</u>
Biology I	4
Biology II	4
Principles of Microbiology	4
Biotechnology I	4
Biotechnology II	4
Organic Chemistry I	4
Organic Chemistry II	4
Analytical Chemistry I	5
	Biology II Principles of Microbiology Biotechnology I Biotechnology II Organic Chemistry I Organic Chemistry II

PROGRAM/MAJOR SUPPORT COURSES

Cour	ses		Credits
CHM	150	Chemical Principles I	5
CHM	151	Chemical Principles II	5
CIS	107	Intro to Computers/Application	3
PHY	205	General Physics I	4
or			
PHY	281	Physics I with Calculus	4

Electronic Engineering Technology

Biomedical Option

A.A.S. Degree (T)

This degree program takes the electronics program and provides course work beyond the normal theories and applications of the electronics technology field. Courses from the computer and electromechanical engineering technologies and the nursing program become part of the curriculum requirements. Internship work experience in electronics and in a hospital/medical environment is a significant part of the program. A student who is training to be a biomedical technician must have a high level of personal commitment, ethical conduct, and a knowledge of interpersonal relationships in order to enable him or her to interact with medical staff within the hospital/medical environment. Courses are transferable to four-year degree programs in engineering technology and related programs. Students are advised to contact the department for details.

CORE COURSES

Courses		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 181	Algebra and Trigonometry I	4
Select 2 c	ourse(s) from:	
COM 111	Human Communications	3
ECO 111	Macroeconomics	3
ECO 122	Microeconomics	3
HIS 111	U. S. History: Pre-Civil War	3
HIS 112	U. S. History: Post-Civil War	3
POL 111	Political Science	3
PSY 100	Human Relations	3
PSY 121	General Psychology	3
SOC 111	Sociology	3

PROGRAM/MAJOR COURSES

<u>Courses</u>		<u>Credits</u>
CEN 100	Intro Elec & Computer Eng	3
	Tech	
CEN 126	Industrial Networks	3
ELC 125	Electrical Circuits I	4
ELC 126	Analog Electronics I	3
ELC 127	Digital Electronics	4
ELC 225	Electrical Circuits II	4
ELC 226	Analog Electronics II	3
ELC 260	Biomedical Instrumentation	4
ELC 261	Biomedical Instrumentation II	4
ELC 291	Biomed Electronics Internship	3

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>	<u>Credits</u>	
BIO 110	Essentls-Anatomy & Physiology	4
CHM 110	General Chemistry	4
MAT 182	Algebra and Trigonometry II	4
PHY 111	Conceptual Physics	4

Biotechnology

Biotechnology

A.A.S. Degree (O,S)



Biotechnology associate degree graduates are prepared for entry-level employment in a variety of laboratory settings. They analyze and interpret data using their knowledge of biological methods, laboratory techniques, and modern instrumentation. Students acquire a theoretical and practical education in various aspects of biology and chemistry that can be applied to diverse careers in the medical, environmental, industrial, and agricultural fields.

CORE COURSES

Courses		Credits
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
ENG 122	Technical Writing-Comm	3
MAT 153	College Math and Statistics	4
or		
MAT 181	Algebra and Trigonometry I	4
Select 2 c	ourse(s) from:	
CLT 110	Cross-Cultural Immersion	3
COM 111	Human Communications	3
ECO 111	Macroeconomics	3
ECO 122	Microeconomics	3
POL 111	Political Science	3
PSY 121	General Psychology	3
PSY 123	Industrial Psychology	3
SOC 111	Sociology	3

PROGRAM/MAJOR COURSES

C			C1:4-
Cour			<u>Credits</u>
BIO	150	Biology I	4
BIO	151	Biology II	4
BIO	250	Principles of Microbiology	4
BIT	260	Biotechnology I	4
BIT	261	Biotechnology II	4
CHM	111	Intro to Organic & Biochemstry	4
CHM	250	Analytical Chemistry I	5
CHM	251	Analytical Chemistry II	4

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>		<u>Credits</u>
CHM 150	Chemical Principles I	5
CHM 151	Chemical Principles II	5
CIS 107	Intro to Computers/Application	3

Energy

Building Automation Systems Option

A.A.S. Degree (T)

The Building Automation Systems (BAS) Program leads to an Associate in Applied Science (A.A.S.) degree in Energy Management with a Building Automations System option. BAS technicians conduct the hands-on operation of a building's

computer networking of electronic devices designed to monitor and control the mechanical, security, fire and flood safety, HVAC and humidity control, and ventilation systems. The program incorporates electronics, energy, and HVAC courses designed to train an entry level controls technician.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 140	Essentials of College Algebra	4
SOC 103	Sustainability and Society	3
PSY 100	Human Relations	3
or		
ECO 122	Microeconomics	3

PROGRAM/MAJOR COURSES

Course	S		<u>Credits</u>
ACR 12	21	HVAC Energy Systems	3
ACR 22	22	Commercial HVAC Energy Analysi	2
NRG 10	01	Intro to Energy Management	3
NRG 12	23	Fundamentals of Control	3
		System	
		Energy Efficient Methods	3
NRG 14	40	Commercial Building Systems	3
NRG 20	09	BAS Co-operative Education	3
NRG 22	23	Energy Control Strategies	3
NRG 23	33	Lighting Fundmt & Applications	4
NRG 24	45	Building Systems Integration	3
NRG 2	53	BAS Capstone	3

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>			<u>Credits</u>
CEN	126	Industrial Networks	3
EDD	131	Engineering Graphics/CAD	3
ELM	130	Industrial Electricity	3
OAT	152	Excel Level I	3
PHY	111	Conceptual Physics	4

Business

Business Administration Transfer Option

A.A.S. Degree (O,T,W)

The Business Administration Transfer option is designed to enable graduates to transfer to four year business programs accredited by the Association to Advance Collegiate Schools of Business (AACSB). The option combines studies in non-business and business courses that will best match students' individual education goals. This option will give graduates the flexibility to transfer to institutions of higher learning.



CORE COURSES

<u>Courses</u>		Credits
ECO 111	Macroeconomics	3
ECO 122	Microeconomics	3
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
ENG 124	Oral Communications	3
MAT 153	College Math and Statistics	4

PROGRAM/MAJOR COURSES

Courses	
Accounting I	4
Accounting II	4
Cost Accounting I	3
Introduction to Business	3
Business Statistics I	3
Business Statistics II	3
Business Calculus I	4
Principles of Management	3
Principles of Marketing	3
	Accounting II Cost Accounting I Introduction to Business Business Statistics I Business Statistics II Business Calculus I Principles of Management

PROGRAM/MAJOR SUPPORT COURSES

	107	Intro to Computers/Application General Psychology	Credits 3 3
or	121	General r sychology	5
SOC	111	Sociology	3
Seled	ct 2 c	ourse(s) from:	
ENG	128	Black American Literature	3
HIS	111	U. S. History: Pre-Civil War	3
HIS	112	U. S. History: Post-Civil War	3
SPA	136	Spanish Communication I	4
SPA	137	Spanish Communication II	4
Seled	ct 1 c	ourse(s) from:	
BIO	100	Medical Terminology	3
BIO	110	Essentls-Anatomy & Physiology	4
BIO	140	General Biology	4
CHM	110	General Chemistry	4
ENV	190	Intro to Envtl Science & Tech	3
PHY	111	Conceptual Physics	4

Allied Health

Cardiovascular Sonography

A.A.S. Degree (W)

Sonography is the art and science of employing high frequency sound waves to image organs, vessels, masses, and fluid accumulations within the body. The Cardiovascular Sonography program at the Wilmington Campus provides comprehensive educational experiences that enable qualified students to acquire the knowledge, skills, and behaviors necessary to be eligible for licensure and employment as entry level diagnostic cardiac sonographers and vascular technologists. The cardiovascular program focuses on procedures that

help to diagnose abnormalities related to heart and vascular diseases. The cardiovascular program is accredited by the Joint Review Committee on Education in Diagnostic Medical Sonography (JRCDMS) 6021 University Blvd., Suite 500, Ellicott City, MD 21043, (443) 973-3251 of the Commission on Accreditation of Allied Health Education Programs (CAAHEP) 1361 Part Street, Clearwater, FL 33756. (727)210-2350. Graduates may take the national certification in cardiac and vascular sonography. Courses are offered on campus and a variety of clinical affiliates. Academically ready students can apply to the program following the guidelines of the Allied Health competitive admission process. Interested applicants should review the information provided here and contact their program advisor for application requirements.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
PSY 121	General Psychology	3
SOC 213	Ethical Issues in Health Care	3
MAT 153	College Math and Statistics	4
or		
MAT 181	Algebra and Trigonometry I	4

PROGRAM/MAJOR COURSES

<u>Courses</u>		<u>Credits</u>
CVS 109	Intro to Clin Internship II	1
CVS 201	Clinical Internship I	3
CVS 202	Clinical Internship II	7
CVS 203	Clinical Internship III	7
CVS 210	Scanning Applications	1
DMS 106	Intro-Patient Care/Sonography	3
DMS 108	Intro to Clin Internship I	1
DMS 110	Acoustical Physics	3
DMS 230	Special Topics	2
ECH 111	Echocardiography Techniques I	3
ECH 112	Echocardiography Techniques II	3
ECH 213	Echocardiography Technique III	3
HLH 215	Cardiovascular Monitoring	2
VAS 111	Vascular Techniques I	3
VAS 112	Vascular Techniques II	3
VAS 213	Vascular Techniques III	3

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>			Credits
BIO	100	Medical Terminology	3
BIO	120	Anatomy and Physiology I	5
BIO	121	Anatomy and Physiology II	5
BIO	130	Disease Proc/Pathophysiology	3
CHM	110	General Chemistry	4
PHY	111	Conceptual Physics	4

Chemical Process Operator



Chemical Process Operator

A.A.S. Degree (S)

The Chemical Process Operator curriculum prepares students for employment in industrial plants in the chemical, petroleum, polymer and pharmaceutical industry. The chemical industry throughout the state has a great need for trained chemical operators to adjust and optimize conditions for the production of large quantities of products in local chemical plants and pilot plants. Graduates are readily employed by these local plants at competitive salaries. The program provides a practical education in the various aspects of plant operations such as hands-on training in process operations and control, regulatory compliance, and preventive maintenance skills. Laboratory facilities include not only standard lab equipment, but also modern instrumentation in pilot plant technology and computer simulations.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 153	College Math and Statistics	4
Select 2 c		
ECO 111	Macroeconomics	3
POL 111	Political Science	3
PSY 121	General Psychology	3
SOC 111	Sociology	3

PROGRAM/MAJOR COURSES

Cour	ses		Credits
CPO	100	Intro to Chem Proc Oper Tech	3
CPO	125	Safety, Health & Environment	3
CPO	135	Chem Proc Tech-Equipment	3
CPO	151	Chem Proc Tech I-Systems	4
CPO	240	Quality	3
CPO	252	Chem Proc Tech II-Operations	4
CPO	253	Process Troubleshooting	4
CPO	260	Work Experience	4

PROGRAM/MAJOR SUPPORT COURSES

Cour	<u>ses</u>		Credits
CHM	110	General Chemistry	4
CIS	107	Intro to Computers/Application	3
ELC	101	Intro to Instrumentation	3
ELC	270	Process Instrumentation I	4
PHY	111	Conceptual Physics	4

Chemistry

Chemistry

A.A.S. Degree (S)

The Chemistry associate degree will give you the skills needed to work as a technician in a laboratory in chemical, pharmaceutical, and related industries. Chemical and related industries employ scientists at all degree levels in research, production, and quality control laboratories, and in customer service and related areas. The Delaware Tech Chemistry program teaches you to integrate scientific knowledge, laboratory skills, and critical thinking to solve chemical problems.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 181	Algebra and Trigonometry I	4
Select 2 co	ourse(s) from:	
CLT 110	Cross-Cultural Immersion	3
COM 111	Human Communications	3
ECO 111	Macroeconomics	3
ECO 122	Microeconomics	3
POL 111	Political Science	3
PSY 121	General Psychology	3
PSY 123	Industrial Psychology	3
SOC 111	Sociology	3

PROGRAM/MAJOR COURSES

<u>Courses</u>		Credits
CHM 111	Intro to Organic & Biochemstry	4
CHM 150	Chemical Principles I	5
CHM 151	Chemical Principles II	5
CHM 240	Organic Chemistry I	4
CHM 241	Organic Chemistry II	4
CHM 245	Intro to Industrial Chemistry	4
CHM 250	Analytical Chemistry I	5
CHM 251	Analytical Chemistry II	4

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>		<u>Credits</u>
BIO 150	Biology I	4
CIS 107	Intro to Computers/Application	3
CPO 106	Statistical Procs Cntrl Ovrvw	1
CPO 240	Quality	3
PHY 205	General Physics I	4

Chemistry

Chemistry Math Concentration

A.A.S. Degree (S)

The Chemistry, Math Concentration Option is equivalent to the first two years of a Baccalaureate program in Chemistry. Connected Degree agreements with the University of Delaware and Delaware State University create a seamless path between Delaware Tech and senior institutions.



Knowledge of chemistry is critical in areas such as biology, chemical engineering, dentistry, forensic science, materials science, medicine, and pharmacy.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 281	Calculus I	4
PSY 121	General Psychology	3
SOC 111	Sociology	3
ENG 122	Technical Writing-Comm	3
or		
ENG 130	Honors Tech. Writing & Comm	3

PROGRAM/MAJOR COURSES

<u>Courses</u>		<u>Credits</u>
BIO 150	Biology I	4
CHM 150	Chemical Principles I	5
CHM 151	Chemical Principles II	5
CHM 240	Organic Chemistry I	4
CHM 241	Organic Chemistry II	4
CHM 250	Analytical Chemistry I	5
CHM 251	Analytical Chemistry II	4

PROGRAM/MAJOR SUPPORT COURSES

Courses		Credits
CIS 107	Intro to Computers/Application	3
SCI 130	Introduction to Research	2
PHY 205	General Physics I	4
or		
PHY 281	Physics I with Calculus	4
PHY 206	General Physics II	4
or		
PHY 282	Physics II with Calculus	4
MAT 282	Calculus II	4
or		
ECO 111	Macroeconomics	3
or		
ECO 122	Microeconomics	3

Civil Engineering Technology

Civil Engineering Technology

A.A.S. Degree (O,S)

Civil Engineering Technology is one of the broadest fields in the overall practice of engineering because its work is coordinated with so many other areas of engineering. The curriculum provides a broad base instructional program suitable to many aspects of the construction industry. The employment opportunities are extensive, varying and offer graduates numerous challenges in a growing technological society.

The program emphasizes practical applications in the areas of site development; route surveying & design; topographic drafting; hydraulics/hydrology; the selection, specification and testing of soils, concrete, asphalt, and other construction materials for the construction industry. The use of computers for CAD, data acquisition and analysis is integrated throughout the program preparing graduates for immediate productivity in the profession.

Graduates of the Civil Engineering Technology program may work as engineering technicians in offices of civil/surveying/structural/consulting engineering firms; local, state, and federal departments of natural resources; transportation/highway departments; material testing laboratories; and flood control and soil conservation agencies.

CORE COURSES

Courses		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 181	Algebra and Trigonometry I	4
or		
MAT 281	Calculus I	4
Select 2 c	ourse(s) from:	
CLT 110	Cross-Cultural Immersion	3
ECO 111	Macroeconomics	3
ECO 122	Microeconomics	3
HIS 111	U. S. History: Pre-Civil War	3
HIS 112	U. S. History: Post-Civil War	3
POL 111	Political Science	3
PSY 121	General Psychology	3
SOC 111	Sociology	3

PROGRAM/MAJOR COURSES

<u>Courses</u>		Credits
CET 125	Civil & Envl Drafting & Design	4
CET 135	Engineering Materials	3
CET 144	Surveying Principles	4
CET 225	Civil CAD Applications	3
CET 236	Soils	3
CET 240	Hydraulics and Hydrology	4
CET 244	Principles of Site Development	4
CET 247	Route Surveying and Design	3
MET 132	Statics	3
or		
CET 258	Statics with Calculus	3
MET 242	Strength of Materials	3
or		
CET 270	Solid Mechanics with Calculus	3

<u>Courses</u>			<u>Credits</u>
AET	234	Cost Estimating/Planning	3
EDD	171	Intro to CAD Using AutoCAD	3



GIS	101	Introduction to GIS	3
PHY	205	General Physics I	4
or			
PHY	281	Physics I with Calculus	4
MAT	182	Algebra and Trigonometry II	4
or			
MAT	185	Precalculus	4
or			
MAT	282	Calculus II	4

Communications Technology

Communications

A.A.S. Degree (O)

The Communications program provides essential background for students preparing for careers in the print or broadcasting media. Students learn how to write news articles for print and broadcast. They learn how to operate industry standard equipment and software. Instruction is also given in copy writing and in selling advertisements for different types of media. The program emphasizes hands-on experience with students participating in the student-produced website "The Wire" and serving an internship prior to graduation.

CORE COURSES

<u>Courses</u>	<u>Credits</u>	
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 120	Math for Behavioral Sciences	3
POL 111	Political Science	3
PSY 121	General Psychology	3

PROGRAM/MAJOR COURSES

<u>Courses</u>		Credits
COM 110	Intro. to Video Production	3
COM 140	Newswriting I	3
COM 150	Intro to Electronic Media	3
COM 240	Mass Media Law	3
COM 242	Newswriting II	3
COM 250	Photography	4
COM 251	Layout and Design	3
COM 293	Internship with Seminar	5
Select 2 c	ourse(s) from:	
COM 142	Radio Production	3
COM 152	Podcasting	3
COM 160	Intro to Public Relations	3
COM 210	Advanced Video Production	3
COM 246	Introduction to Film	4
COM 252	Advanced Photography	4

PROGRAM/MAJOR SUPPORT COURSES

Courses			Credits
CIS	107	Intro to Computers/Application	3

HIS 111	U. S. History: Pre-Civil War	3
MKT 212	Principles of Marketing	3
OAT 242	Desktop Publishing	4
ENG 129	Creative Writing	3
or		
ENG 124	Oral Communications	3

Computer Aided Drafting/Design Technology

Computer Aided Drafting/Design Technology

A.A.S. Degree (S)

Computer-Aided Engineering Drafting & Design Technology is a program which prepares students for industry by enhancing their computer-aided drafting (CAD) and design skills. The employment opportunities are extensive and varying and offer students numerous challenges in a growing technological society.

Graduates of the program may work as CAD technicians in offices of mechanical, electrical, architectural, structural consulting engineering offices; industrial piping; chemical/oil refineries; and municipal, state, and federal agencies. Graduates of this program are prepared for immediate productivity in the profession.

CORE COURSES

Cours	ses		Credits
ENG	101	Crit Thinking & Acad Writing	3
ENG	102	Composition and Research	3
MAT	181	Algebra and Trigonometry I	4
and			
MAT	182	Algebra and Trigonometry II	4
or			
	185	Precalculus	4
or			
MAT	281	Calculus I	4
Selec	t 2 c	ourse(s) from:	
CLT	110	Cross-Cultural Immersion	3
POL	111	Political Science	3
PSY	121	General Psychology	3
SOC	111	Sociology	3
ECO	111	Macroeconomics	3
or			
ECO	122	Microeconomics	3
HIS	111	U. S. History: Pre-Civil War	3
or			
HIS	112	U. S. History: Post-Civil War	3

PROGRAM/MAJOR COURSES

Courses		<u>Credits</u>
EDD 141	Engr Drafting & Design I	4



EDD 142	Engr Drafting & Design II	3
EDD 161	Intro - CAD using MicroStation	3
EDD 171	Intro to CAD Using AutoCAD	3
EDD 233	Engr Drafting and Design III	3
EDD 234	Eng. Drafting - Piping	3
EDD 246	Eng. Drafting - Structural	3
EDD 249	Engineering Design Process	3
	Advanced CAD	3
EDD 272	Solid Modeling	3

<u>Courses</u>	<u>Credits</u>	
AET 236	Building Service Systems	3
MET 115	Intro Mechanical Engr Tech	3
MET 123	Modern MFG Techniques	3
PHY 205	General Physics I	4

Electronic Engineering Technology

Computer Engineering Tcy Option

A.A.S. Degree (S)

The Computer Engineering Technology Option combines the hardware and software principles a technician encounters working with microcomputers. Specialized courses cover the fundamentals of electrical and electronic circuit theory as well as device operation and computer circuits. Students will acquire skills in basic PC installation and routine maintenance including troubleshooting and repair of microcomputer equipment and peripherals. Advanced skills in networking and security are also covered. An introduction to software through computer languages, such as C, C++, and assembly language are presented. Graduates can pursue career opportunities as computer technician, field service engineer, customer service representative or computer network technician. The Computer Engineering Technology Option is a path through the Electronics Engineering Technology program.

CORE COURSES

Course	<u>es</u>		<u>Credits</u>
ENG 1	.01	Crit Thinking & Acad Writing	3
ENG 1	.02	Composition and Research	3
MAT 1	.81	Algebra and Trigonometry I	4
MAT 1	.82	Algebra and Trigonometry II	4
Select	2 cc	ourse(s) from:	
COM 1	.11	Human Communications	3
ECO 1	.11	Macroeconomics	3
ECO 1	.22	Microeconomics	3
POL 1	.11	Political Science	3
PSY 1	.00	Human Relations	3
PSY 1	.21	General Psychology	3
SOC 1	.11	Sociology	3

PROGRAM/MAJOR COURSES

Cour	ses		Credits
ELC	125	Electrical Circuits I	4
ELC	126	Analog Electronics I	3
ELC	127	Digital Electronics	4
ELC	205	Computer Networks and	4
		System I	
ELC	206	Computer Networks & Systems	3
		II	
ELC	225	Electrical Circuits II	4
ELC	226	Analog Electronics II	3
ELC	227	Microcontroller Fundamentals	3
ELC	228	Microcontroller Applications	4

PROGRAM/MAJOR SUPPORT COURSES

Courses		
100	Intro Elec & Computer Eng	3
	Tech	
150	Computer Assembly/Maint	4
180	C/C++ Language Intro	4
205	General Physics I	4
	100 150 180	100 Intro Elec & Computer Eng

Computer Information Systems

Computer Information Systems

A.A.S. Degree (O,T,W)

The Computer Information Systems prepares students for careers in applied programming and other computer-related fields. Computer concentrations are available leading to Associate in Applied Science degrees, diplomas, and certificates. The following Options are available:

Associate Degree in Computer Information Systems Associate Degree in Microcomputers and Networking Diploma in Microcomputer Studies Certificates in Microcomputers, Network, and Web Developer

These Options prepare students for computer-related careers in businesses that use hardware ranging from microcomputers to large mainframe computers. Students are also taught to use the wide variety of software found in businesses including microcomputer networks. Each curriculum consists of a core of courses in programming, software applications, systems analysis, and related accounting and mathematics courses. All core courses make extensive use of computers.

<u>Courses</u>			<u>Credits</u>
ECO	111	Macroeconomics	3
ECO	122	Microeconomics	3
ENG	101	Crit Thinking & Acad Writing	3



ENG 102	Composition and Research	3
MAT 153	College Math and Statistics	4

Cour	ses		<u>Credits</u>
CIS	120	Intro to Programming	4
CIS	141	Operating Systems I	3
CIS	150	Intro to Objct-Orntd Prgrmmng	3
CIS	199	Data Comms & Networking	3
CIS	209	Visual Programming	3
CIS	211	Data Structures	4
CIS	238	Database Design &	4
		Programming	
CIS	240	Systems Analysis & Design	3
CIS	282	Topics in Programming	4
		Language	

PROGRAM/MAJOR SUPPORT COURSES

Cour	ses		Credits
CNE	180	Computer Assmbly &	4
		Maintenance	
ISY	111	Ethics & the Information Age	2
ISY	143	Intro to Information Security	3
ISY	150	Introductory Scripting	4
WEB	160	Internet/Web Construction	3

Computer Network Engineering Technology

Computer Network Engineering Technology

A.A.S. Degree (O,T,W)

The Computer Network Engineering program prepares students for careers in the field of networking and data communications. The curriculum, which consists of courses in computing and electronics, is designed to develop students' skills in installing, operating, and trouble-shooting computer networks. An introduction to computer languages, including assembly language, C++, and Visual systems is included. The electronics courses enable students to design and trouble-shoot the physical layer of the network. Graduates of this program will find jobs as network technicians, network administrators, and installers.

CORE COURSES

Courses		<u>Credits</u>
ECO 111	Macroeconomics	3
ECO 122	Microeconomics	3
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 153	College Math and Statistics	4

PROGRAM/MAJOR COURSES

Cour	ses		<u>Credits</u>
CIS	120	Intro to Programming	4
CIS	141	Operating Systems I	3
CIS	240	Systems Analysis & Design	3
CNE	180	Computer Assmbly &	4
		Maintenance	
CNE	191	Router Configuration	3
CNE	192	Network Administration	4
CNE	215	Enterprise Server Admin	4
CNE	216	Open Source Server Admin	3
CNE	280	Advanced Networking Topics	3
CNE	284	Cloud Computing	3

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>			<u>Credits</u>
ISY	111	Ethics & the Information Age	2
ISY	150	Introductory Scripting	4
ISY	250	Network Def &	3
		Countermeasures	
MAT	253	Discrete Math	3
PHY	111	Conceptual Physics	4

Computing and Information Science

Computing and Information Science

A.A.S. Degree (W)

Employment demand for graduates with high level computing and information technology skills is projected to continue to increase over the next decade. The Computing and Information Science program provides students with the skills necessary to design computing and information technology solutions so that they are prepared to be successful upon transfer to a bachelor's degree program. Students who wish to continue their education may do so through connected degree programs with local universities, including the University of Delaware and Delaware State University.

Courses		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
HIS 111	U. S. History: Pre-Civil War	3
MAT 181	Algebra and Trigonometry I	4
or		
MAT 185	Precalculus	4
Select 1 c	ourse(s) from:	
ECO 111	Macroeconomics	3
POL 111	Political Science	3
PSY 121	General Psychology	3
SOC 111	Sociology	3



Cours	Credits		
CIS :	130	Computer Organization	3
CIS 2	211	Data Structures	4
CSC :	114	Computer Science I	4
CSC :	164	Computer Science II	4
CSC 2	214	Computer Science III	4
CSC 2	264	Applied Computer Capstone	4
MAT 2	263	Principles of Discrete Math	4
MAT 2	281	Calculus I	4

PROGRAM/MAJOR SUPPORT COURSES

Cour	ses		<u>Credits</u>
ECO	122	Microeconomics	3
or			
ENG	124	Oral Communications	3
PHY	205	General Physics I	4
or			
PHY	281	Physics I with Calculus	4
MAT	182	Algebra and Trigonometry II	4
or			
MAT	282	Calculus II	4
HIS	112	U. S. History: Post-Civil War	3
or			
SPA	136	Spanish Communication I	4

Construction Management Technology

Construction Management Technology

A.A.S. Degree (O,S,T)

The Construction Management program prepares individuals to work in the office/business end of a construction firm. Students are required to take a core of construction courses and business courses. The student chooses several elective courses to broaden his/her background in a specialized area. Graduates from the program will be prepared to qualify for paraprofessional employment in the construction industry. Career positions include engineering aide, materials and job estimator, assistant construction supervisor/project manager, specification writer, material salesperson, building inspector, and office manager. Graduates of this program are prepared for immediate productivity in the profession.

CORE COURSES

Courses	<u>Credits</u>	
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 181	Algebra and Trigonometry I	4
or		
MAT 281	Calculus I	4
Select 2 co		

CLT 110	Cross-Cultural Immersion	3
ECO 111	Macroeconomics	3
ECO 122	Microeconomics	3
HIS 111	U. S. History: Pre-Civil War	3
HIS 112	U. S. History: Post-Civil War	3
POL 111	Political Science	3
PSY 121	General Psychology	3
SOC 111	Sociology	3
VSC 131	Art History I	3
VSC 132	Art History II	3

PROGRAM/MAJOR COURSES

<u>Courses</u>	<u>Credits</u>	
CET 125	Civil & Envl Drafting & Design	4
CET 144	Surveying Principles	4
CMT 111	Construction Print Reading	3
CMT 224	OSHA Constr Industry Training	3
CMT 234	Cost Estimating/Planning	3
CMT 235	Adv Cost Estimating/Planning	3
CMT 242	Constr Project Management I	3
CMT 243	Co-op Work Experience	3
CMT 244	Constr Project Management II	4

PROGRAM/MAJOR SUPPORT COURSES

Cour	ses		<u>Credits</u>
ACC	101	Accounting I	4
AET	135	Construction Materials/Methods	3
AET	232	Contracts/Specifications	3
AET	236	Building Service Systems	3
AET	264	Architectural CAD Applications	3
NRG	101	Intro to Energy Management	3
MAT	182	Algebra and Trigonometry II	4
or			
PHY	205	General Physics I	4

Criminal Justice

Criminal Justice

A.A.S. Degree (O,S,T)

The Criminal Justice program prepares students for positions in local, state, and federal criminal justice agencies as well as private agencies. Career areas available to graduates are law enforcement and related services, corrections, counseling, probation, and parole. This program provides students the foundation for transfer to public and private four-year in-state colleges and universities to complete requirements for a bachelor's degree.

Cour	<u>Credits</u>		
ENG	101	Crit Thinking & Acad Writing	3
ENG	102	Composition and Research	3
PSY	121	General Psychology	3
SOC	111	Sociology	3



MAI	120	Math for Benavioral Sciences	3
or			
MAT	153	College Math and Statistics	4

Cour	ses		<u>Credits</u>
CRJ	101	Intro to Criminal Justice	3
CRJ	102	Criminal Law	3
CRJ	104	Drugs Society/Human Behavior	3
CRJ	105	Computer Appl in Crim./Justice	3
CRJ	115	Essntls of Intrvwng/Counsing	3
CRJ	118	Corrections in America	3
CRJ	220	Criminal Judiciary	3
CRJ	222	Constitutional Law	3
CRJ	223	Criminology	3
CRJ	226	Crisis Intervention	3

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>		<u>Credits</u>
CIS 107	Intro to Computers/Application	3
ENG 122	Technical Writing-Comm	3
ENG 124	Oral Communications	3
PSY 223	Abnormal Psychology	3
POL 111	Political Science	3
or		
HIS 112	U. S. History: Post-Civil War	3
SPA 133	Using Beginning Spanish	3
or		
SPA 136	Spanish Communication I	4

Culinary Arts

Culinary Arts

A.A.S. Degree (T,S)

This program provides students with the basic skills necessary for pursuing a career as a chef. Graduates will also be prepared for continuing their studies towards an advanced degree. Classes are a combination of classroom lecture and hands-on cooking in the demonstration kitchen. Students also prepare and serve lunch in the restaurant located on campus. Students must complete a practicum (field experience) prior to graduation.

Graduates can expect to find employment in hotels, restaurants, clubs, and institutional settings. The program is a member of the National Restaurant Association and the American Culinary Federation. Interested applicants should contact Admissions for required admissions packet.

The Stanton and Terry Campus Culinary Arts programs are accredited by the American Culinary Federation, Foundation Inc.'s Accrediting Commission; 180 Center Place Way; St. Augustine, FL 32095 (800) 624-9458.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
COM 111	Human Communications	3
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 120	Math for Behavioral Sciences	3
PSY 121	General Psychology	3

PROGRAM/MAJOR COURSES

<u>Courses</u>		Credits
CUL 119	Food Safety and Sanitation	2
CUL 121	Food Prep I	4
CUL 156	Practicum	3
CUL 171	Garde Manger	4
CUL 245	Applied Hospitality	2
CUL 261	Baking	4
CUL 262	Pastry	4
CUL 285	International Cuisine	4
CUL 291	Food Prep II	4

PROGRAM/MAJOR SUPPORT COURSES

Cour	ses		Credits
CIS	107	Intro to Computers/Application	3
HRI	210	Beverage Management	3
HRI	212	Food/Beverage Cost Control	3
MGT	248	Culinary Supervisory	3
		Develpmnt	
SCI	141	Nutrition in the Culinary Fld	2

Allied Health

Dental Hygiene

A.A.S. Degree (W)

The Dental Hygiene program provides comprehensive educational experiences for qualified students to achieve the knowledge and skills necessary to be eligible for licensure and employment as dental hygienists. The program is accredited by the Commission on Dental Accreditation, a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at (312) 440-4653 or at 211 East Chicago Avenue, Chicago, IL 60611-2678. The program includes didactic, laboratory and clinical experiences and is based at the Wilmington Campus, with an extension location at the Terry Campus (Dover, DE) that serves Kent and Sussex county students. The Terry Campus-based students complete their didactic courses at both the Dover and Wilmington campus locations and their clinical experiences at the Dover Air Force Base. The Dental Hygiene program cycle begins once a year in the fall semester. Academically ready students can apply to the program following the guidelines of the Allied Health competitive admission process. Interested



applicants should review the information provided here and contact their program advisor for application requirements.

CORE COURSES

Courses

	<u>Credits</u>
Crit Thinking & Acad Writing	3
Composition and Research	3
Biomedical Statistics	3
General Psychology	3
Sociology	3
	Composition and Research Biomedical Statistics General Psychology

Cradita

PROGRAM/MAJOR COURSES

Courses		<u>Credits</u>
DHY 101	Clinical Dental Hygiene I	2
DHY 102	Clinical Dental Hygiene II	3
DHY 103	Clinical Dental Hygiene III	2
DHY 111	Dental Hygiene Fundamtls I	3
DHY 112	Dental Hygiene Fundmtls II	3
DHY 121	Oral Histology/Embryology	2
DHY 132	Dental Anatomy	1.5
DHY 133	Head and Neck Anatomy	1.5
DHY 141	Oral Radiography	3
DHY 151	Periodontology/Cariology	3
DHY 161	Oral Pathology	3
DHY 204	Clinical Dental Hygiene IV	4
DHY 205	Clinical Dental Hygiene V	4
DHY 212	The Compromised Dental	1.5
	Patient	
DHY 213	Adv Clinical Techniques	3
DHY 215	3	1
DHY 271	Pharmacology for Dental	1.5
	Hygien	
DHY 281	Operative/Specialty Dentistry	1
DHY 290	Community Dental Health	2
DHY 291	Communty Dental Health Fld	1
	Wrk	

PROGRAM/MAJOR SUPPORT COURSES

Cour	ses		<u>Credits</u>
BIO	100	Medical Terminology	3
BIO	115	Nutrition	3
BIO	120	Anatomy and Physiology I	5
BIO	121	Anatomy and Physiology II	5
BIO	125	Introductory Microbiology	4
CHM	110	General Chemistry	4

Design Engineering Technology

Design Engineering (Mechanical)

A.A.S. Degree (O)

The Design Engineering Technology curriculum is designed to provide students with a broad knowledge of basic engineering principles. An emphasis is placed on manufacturing, machining,

and mechanical drafting and design. The program incorporates hands-on courses that provide students with experience in the modern technologies used in today's manufacturing sector. The program incorporates direct experience in CADD (computer-aided drafting and design), CNC (computer numerical control) machining, and CAM (computer-aided manufacturing). Careers in mechanical design, manufacturing, machining, maintenance, technical sales, and engineering management are likely areas of employment. The Design Engineering Technology program at the Owens Campus is accredited by the Engineering Technology Accreditation Commission of ABET, http://www.abet.org.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ENG 101 Crit T	hinking & Acad Writing	3
ENG 102 Comp	osition and Research	3
MAT 181 Algeb	ra and Trigonometry I	4
or		
MAT 185 Preca	lculus	4
Select 2 course(s) from:	
CLT 110 Cross	-Cultural Immersion	3
ECO 111 Macro	peconomics	3
ECO 122 Micro	economics	3
HIS 111 U.S.	History: Pre-Civil War	3
HIS 112 U.S.	History: Post-Civil War	3
POL 111 Politic	cal Science	3
PSY 121 Gene	ral Psychology	3
SOC 111 Socio	logy	3

PROGRAM/MAJOR COURSES

<u>Courses</u>		<u>Credits</u>
EDD 141	Engr Drafting & Design I	4
EDD 171	Intro to CAD Using AutoCAD	3
EDD 272	Solid Modeling	3
EDD 273	Advanced Solid Modeling	3
EDT 128	Machine Trades Blueprnt Rding	3
EDT 152	Engineering Design II	4
EDT 252	Engineering Design III	4
ELC 125	Electrical Circuits I	4
IET 209	Survey in Prod Plan & Cntrl	3

Courses		Credits
	Modern MFG Techniques	3
	Adv Manufacturing Techniques	3
MET 132	Statics	3
MET 242	Strength of Materials	3
PHY 205	General Physics I	4
or		
PHY 281	Physics I with Calculus	4
MAT 182	Algebra and Trigonometry II	4
or		
MAT 281	Calculus I	4



Allied Health

Diagnostic Medical Sonography: Owens

A.A.S. Degree (O)

Diagnostic Medical Sonography is the art and science of employing high frequency sound waves to image organs, vessels, masses, and fluid accumulations within the body. The skilled sonographer, qualified by academic and clinical training, assists the physician in assessing both disease processes and the state of well-being. The Diagnostic Medical Sonography program is accredited by the Joint Review Committee on Education in Diagnostic Medical Sonography (JRCDMS) 6021 University Blvd., Suite 500, Ellicott City, MD 21043, (443) 973-3251 of the Commission on Accreditation of Allied Health Education Programs (CAAHEP) 1361 Park Street Clearwater, FL 33756, (727) 210-2350 to prepare students for national certification in general sonographic learning concentrations.

Courses are offered on campus and at a variety of clinical affiliates. Employment opportunities in this dynamic field exist in a wide range of settings such as hospitals, clinics, and doctors' offices. Other opportunities are available in veterinary medicine, industry, sales, mobile services, and the private sector. Academically ready students can apply to the program following the guidelines of the Allied Health competitive admission process. Interested applicants should review the information provided here and contact their program advisor for application requirements.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 153	College Math and Statistics	4
PSY 121	General Psychology	3
SOC 213	Ethical Issues in Health Care	3

PROGRAM/MAJOR COURSES

<u>Courses</u>		<u>Credits</u>
DMS 104	Intro to Clinical Internship	1
DMS 107	Essentials in Pt. Care/Sono	3
DMS 110	Acoustical Physics	3
DMS 112	OB/GYN Sonography I	2
DMS 131	Abd/Small Parts Sono. I	2
DMS 214	Essentials in Vascular U/S	2
DMS 215	OB/GYN Sonography II	2
DMS 231	Abd/Small Parts Sono. II	2
DMS 235	Pediatric Sonography	1
DMS 240	Clinical Internship I	3

DMS 241	Clinical Internship II	6
DMS 242	Clinical Internship III	5
DMS 243	Clinical Internship IV	5
DMS 250	Selected Topics in U/S	2

PROGRAM/MAJOR SUPPORT COURSES

Courses			Credits
BIO	100	Medical Terminology	3
BIO	120	Anatomy and Physiology I	5
BIO	121	Anatomy and Physiology II	5
BIO	130	Disease Proc/Pathophysiology	3
CHM	110	General Chemistry	4
PHY	111	Conceptual Physics	4

Allied Health

Diagnostic Medical Sonography: Wilmington

A.A.S. Degree (W)

Diagnostic Medical Sonography is the art and science of employing high frequency sound waves to image organs, vessels, masses, and fluid accumulations within the body. The skilled sonographer, qualified by academic and clinical training, assists the physician in assessing both disease processes and the state of well-being. The Diagnostic Medical Sonography program is accredited by the Joint Review Committee on Education in Diagnostic Medical Sonography (JRCDMS) 6021 University Blvd., Suite 500, Ellicott City, MD 21043, (443) 973-3251 of the Commission on Accreditation of Allied Health Education Programs (CAAHEP) 1361 Park Street Clearwater, FL 33756, (727) 210-2350 to prepare students for national certification in general sonographic learning concentrations.

Courses are offered on campus and at a variety of clinical affiliates. Employment opportunities in this dynamic field exist in a wide range of settings such as hospitals, clinics, and doctors' offices. Other opportunities are available in veterinary medicine, industry, sales, mobile services, and the private sector. Academically ready students can apply to the program following the guidelines of the Allied Health competitive admission process. Interested applicants should review the information provided here and contact their program advisor for application requirements.

Courses		Credits
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
PSY 121	General Psychology	3
SOC 213	Ethical Issues in Health Care	3



MAT	153	College Math and Statistics	4
or			
MAT	181	Algebra and Trigonometry I	4

<u>Courses</u>		Credits
DMS 106	Intro-Patient Care/Sonography	3
DMS 108	Intro to Clin Internship I	1
DMS 109	Intro to Clin Internship II	1
DMS 110	Acoustical Physics	3
DMS 113	Gynecological Sonography	2
DMS 114	Obstetrical Sonography	2
DMS 121	Abdominal Sonography I	2
DMS 122	Abdominal Sonography II	2
DMS 201	Clinical Internship I	3
DMS 202	Clinical Internship II	7
DMS 203	Clinical Internship III	7
DMS 210	Scanning Applications	1
DMS 211	Abdominal Sonography III	1
DMS 230	Special Topics	2
VAS 111	Vascular Techniques I	3
VAS 112	Vascular Techniques II	3
VAS 213	Vascular Techniques III	3

PROGRAM/MAJOR SUPPORT COURSES

Courses			<u>Credits</u>
BIO	100	Medical Terminology	3
BIO	120	Anatomy and Physiology I	5
BIO	121	Anatomy and Physiology II	5
BIO	130	Disease Proc/Pathophysiology	3
CHM	110	General Chemistry	4
PHY	111	Conceptual Physics	4

Human Services

Drug Alcohol Counseling

A.A.S. Degree (T,W)

The goal of the Drug and Alcohol Counseling curriculum is to train students in the various theories and techniques which are unique to drug and alcohol counseling. This program will prepare students for entry into the drug and alcohol counseling profession and/or to continue their education at a four-year institution to complete a bachelor's degree.

CORE COURSES

<u>Courses</u>	<u>Credits</u>	
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
PSY 121	General Psychology	3
SOC 111	Sociology	3
MAT 120	Math for Behavioral Sciences	3

or		
MAT 153	College Math and Statistics	4

PROGRAM/MAJOR COURSES

Courses		Credits
DAC 141	Intro Drug&Alcohol Counseling	3
DAC 225	Drug&Alcohol Counseling II	3
DAC 230	Assessmnt/Trtmnt/D&A	3
	Counsing	
DAC 240	Families & Addiction	3
DAC 244	Dir Practice II-Drug/Alcohol	6
HMS 121	Intro To Human Services	3
HMS 122	Theories of Counseling	3
HMS 123	Dynamics/Group	3
	Communication I	
HMS 221	Ethical Problems and Issues	3
HMS 243	Directed Practice I	6

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>	<u>Credits</u>	
CIS 107	Intro to Computers/Application	3
COM 222	Intercultural Communication	3
POL 111	Political Science	3
PSY 127	Human Development	3
PSY 223	Abnormal Psychology	3

Early Childhood Education

Early Childhood Development

A.A.S. Degree (O,T,W)

The Early Childhood Education Development curriculum prepares the future Early Childhood Professionals to develop and implement curriculum, to communicate effectively with families, and to manage a classroom or a child care program Students may build on the Early Childhood Studies diploma. They will also receive a broad based education in Social Sciences, English, and Math. The Education department arranges for on-site community-based and/or lab school experiences.

CORE COURSES

<u>Courses</u>	<u>Credits</u>	
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 150	Business Mathematics	3
PSY 121	General Psychology	3
PSY 125	Child Development	3

PROGRAM/MAJOR COURSES

Cour	ses		Credits
ECE	120	Comtemp Issues in Erly Childhd	3
ECE	121	Infant & Toddler Methods & Lab	5
ECE	123	Early Childhd Methods I & Lab	5



ECE	125	Early Childhd Methods II & Lab	5
ECE	127	Childhood Classroom Mgt	3
ECE	222	Program Planning/Evaluation	3
ECE	233	Exceptional Child	3
ECE	244	Fld Work - Teaching Practicum	6
EDC	220	Parent/Family/School Interact	3

Courses		Credits
CIS 107	Intro to Computers/Application	3
ECE 111	Childhd Nutrition/Safety	3
ECE 226	Assessment of Young Children	3
EDC 120	Foundations of Literacy	3
HIS 111	U. S. History: Pre-Civil War	3

Electrical and Computer Engineering

Electrical and Computer Engineering Transfer Option

A.A.S. Degree (O,T,S)

This program is designed for students that are interested in pursuing a career in the exciting fields of electrical or computer engineering. Electrical and computer engineers design, research, develop, and test electrical and computer systems and components in a variety of industries. Electrical and computer engineers are designers and innovators that help create the products that we use and rely on in our daily lives for work, entertainment, safety, health, and happiness. Electrical and computer engineers also develop solutions to current and future problems like sustainable energy resources, secure networks and computers, and new and innovative medical equipment.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 281	Calculus I	4
Select 1 co	ourse(s) from:	
HIS 111	U. S. History: Pre-Civil War	3
HIS 112	U. S. History: Post-Civil War	3
SPA 136	Spanish Communication I	4
VSC 131 /	Art History I	3
VSC 132	Art History II	3
Select 1 co	ourse(s) from:	
ECO 111	Macroeconomics	3
ECO 122	Microeconomics	3
POL 111	Political Science	3
PSY 121	General Psychology	3
SOC 111	Sociology	3

PROGRAM/MAJOR COURSES

Cour	ses		<u>Credits</u>
CEN	100	Intro Elec & Computer Eng	3
		Tech	
CEN	200	Introduction to MATLAB	2
CIS	211	Data Structures	4
CSC	114	Computer Science I	4
CSC	164	Computer Science II	4
ELC	265	Intro to Digital Systems	3
ELC	266	Analog Circuits I	4
ELC	272	Electronic Circuit Analysis I	4
ELC	275	Microprocessor Systems	4
ELC	282	Signals and Systems	4
MAT	292	Engineering Math I	3

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>		<u>Credits</u>
CHM 150	Chemical Principles I	5
MAT 282	Calculus II	4
MAT 283	Calculus III	4
PHY 281	Physics I with Calculus	4
PHY 282	Physics II with Calculus	4

Electromechanical Engineering Technology

Electromechanical Engineering Technology

A.A.S. Degree (T)

The Electromechanical Engineering Technology Department awards a student an Associate in Applied Science (A.A.S.) degree. To receive this degree, the student must complete training in the fields of electricity, electronics, process control, and hydraulics/pneumatics. The graduating student will be able to construct electrical, electronic, and fluid circuits from engineering designs provided by supervisory engineers, to apply test and evaluation procedures to these circuits, and to correct circuit defects with instrument-aided analysis.

A graduate of this technology is qualified for at least an entry-level position in the electromechanical field, which includes plant maintenance, small machine repairs, and school or hospital maintenance. A student may also choose to attend a four-year institution and pursue a baccalaureate degree in industrial, mechanical, or electromechanical engineering.

Courses		<u>Credits</u>	
ENG 101	Crit Thinking & Acad Writing	3	
ENG 102	Composition and Research	3	
MAT 181	Algebra and Trigonometry I	4	
Select 2 course(s) from:			



COM 111	Human Communications	3	ENG 10
ECO 111	Macroeconomics	3	MAT 18
ECO 122	Microeconomics	3	MAT 18
HIS 111	U. S. History: Pre-Civil War	3	Select 2
HIS 112	U. S. History: Post-Civil War	3	COM 11
POL 111	Political Science	3	ECO 11
PSY 100	Human Relations	3	ECO 12
PSY 121	General Psychology	3	POL 11
SOC 111	Sociology	3	PSY 10
			DCV 12

Courses		<u>Credits</u>
CEN 12	6 Industrial Networks	3
ELC 12	5 Electrical Circuits I	4
ELC 12	7 Digital Electronics	4
ELC 24	3 Programmable Logic	4
	Controllers	
ELM 13	0 Industrial Electricity	3
ELM 20	5 Mechanisms and Design	3
ELM 25	0 Industrial Automation	3
ELM 25	2 Fluid Power	3
ELM 29	0 Electromechanical Internship	3
MET 13	2 Statics	3
MET 24	2 Strength of Materials	3

PROGRAM/MAJOR SUPPORT COURSES

Courses		<u>Credits</u>	
EDD	131	Engineering Graphics/CAD	3
MAT	182	Algebra and Trigonometry II	4
PHY	205	General Physics I	4
PHY	206	General Physics II	4

Electronics Engineering Technology

Electronics Engineering Tcy

A.A.S. Degree (O,T,S)

The graduate of the Electronics Engineering Technology program has extensive training in analog and digital electronics with emphasis on applications and analysis relating to microprocessor, industrial control and communication systems. The students are skilled in computer simulation, robotics, programmable logic controllers, networking, and wireless communications. This program integrates the teaching styles of lecture, demonstration, laboratory and "hands-on" into all course work. Career opportunities in engineering, robotics, avionics, communications, computer electronics, quality control, networking, microwave filters, and manufacturing are likely employment areas.

CORE COURSES

Courses		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3

ENG 102	Composition and Research	3
MAT 181	Algebra and Trigonometry I	4
MAT 182	Algebra and Trigonometry II	4
Select 2 c	ourse(s) from:	
COM 111	Human Communications	3
ECO 111	Macroeconomics	3
ECO 122	Microeconomics	3
POL 111	Political Science	3
PSY 100	Human Relations	3
PSY 121	General Psychology	3
SOC 111	Sociology	3

PROGRAM/MAJOR COURSES

<u>Courses</u>			Credits
ELC	125	Electrical Circuits I	4
ELC	126	Analog Electronics I	3
ELC	127	Digital Electronics	4
ELC	225	Electrical Circuits II	4
ELC	226	Analog Electronics II	3
ELC	227	Microcontroller Fundamentals	3
ELC	228	Microcontroller Applications	4
ELC	236	Analog Electronics III	3
ELC	243	Programmable Logic	4
		Controllers	

PROGRAM/MAJOR SUPPORT COURSES

Courses		<u>Credits</u>
CEN 100	Intro Elec & Computer Eng	3
	Tech	
CEN 150	Computer Assembly/Maint	4
CEN 180	C/C++ Language Intro	4
PHY 205	General Physics I	4

Electronics Engineering Technology

Electronics Engineering Technology Transfer Option

A.A.S. Degree (O,T,S)

The Electronics Engineering Technology Transfer Program prepares students for transfer to a baccalaureate electronics engineering technology program. Rigorous mathematics and physics instruction as well as hands-on laboratory training in analog and digital electronics, microprocessors, computers and programmable logic controllers provide students the foundational skills necessary for a successful transfer to a four year institution.

<u>Courses</u>			<u>Credits</u>
ENG	101	Crit Thinking & Acad Writing	3
ENG	102	Composition and Research	3
MAT	281	Calculus I	4



Select 2 course(s) from:			
COM 111	Human Communications	3	
ECO 111	Macroeconomics	3	
ECO 122	Microeconomics	3	
POL 111	Political Science	3	
PSY 100	Human Relations	3	
PSY 121	General Psychology	3	
SOC 111	Sociology	3	

Courses		Credits
ELC 125	Electrical Circuits I	4
ELC 126	Analog Electronics I	3
ELC 127	Digital Electronics	4
ELC 225	Electrical Circuits II	4
ELC 226	Analog Electronics II	3
ELC 227	Microcontroller Fundamentals	3
ELC 228	Microcontroller Applications	4
ELC 243	Programmable Logic	4
	Controllers	
Select 1 c	course(s) from:	
ELC 236	Analog Electronics III	3
ELC 283	Introduction to LabVIEW	3

PROGRAM/MAJOR SUPPORT COURSES

Courses		<u>Credits</u>
CEN 100	Intro Elec & Computer Eng	3
	Tech	
CEN 180	C/C++ Language Intro	4
MAT 282	Calculus II	4
PHY 205	General Physics I	4
PHY 206	General Physics II	4

Allied Health

Emergency Medical Technician Paramedic

A.A.S. Degree (T)

The Emergency Medical Program prepares students to provide advanced prehospital emergency care under medical command authority to acutely ill or injured patients. Students will recognize, assess, and manage a medical or trauma emergency, record and communicate pertinent data to designated medical command authority, and direct and coordinate the transport of the patient. Students study both on campus and at a variety of field sites. The Emergency Medical Technician program is accredited by the Commission on Accreditation of Allied Health Education Programs upon the recommendation of Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP); 1361 Park Street; Clearwater, FL 33756; 727-210-2350; www.caahep.org. Academically ready students can apply to the program following the guidelines of the Allied Health competitive admission process.

Interested applicants should review the information provided here and contact their program advisor for application requirements.

CORE COURSES

<u>Courses</u>		Credits
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 130	Algebra for Allied Health	4
or		
MAT 129	Math for Health Sciences	3
or		
MAT 140	Essentials of College Algebra	4
PSY 121	General Psychology	3
or		
SOC 111	Sociology	3
SOC 213	Ethical Issues in Health Care	3
or		
PSY 223	Abnormal Psychology	3

PROGRAM/MAJOR COURSES

Courses		Credits
EMT 200	Intro To Paramedic Technology	5
EMT 201	Patient Assessment	3
EMT 202	Medical Emergencies I	3
EMT 203	ALS Skills Lab I	3
EMT 204	Special Populations	4
EMT 207	Paramedic Clinical I	1
EMT 211	Cardiology	4
EMT 212	Medical Emergencies II	3
EMT 213	ALS Skills Lab II	3
EMT 214	Legal Issues/Research	3
EMT 215	Trauma Emergencies	2
EMT 217	Paramedic Clinical II	3
EMT 227	Paramedic Clinical III	3
EMT 290	Paramedic Field Clinical	4

PROGRAM/MAJOR SUPPORT COURSES

Courses			<u>Credits</u>
BIO	120	Anatomy and Physiology I	5
BIO	121	Anatomy and Physiology II	5
BIO	130	Disease Proc/Pathophysiology	3
CHM	100	Basic Chemistry	3
or			
CHM	110	General Chemistry	4

Energy

Energy Management

A.A.S. Degree (O,T,S)

Students will gain an understanding of energy systems in today's "built environment" and the tools to analyze and quantify energy efficiency. Students will develop sophisticated skills in multi-level analysis, including human and computer modeling,



to improve energy efficiency in commercial spaces. These skills will be applied to the description and measurement of energy in building systems with the goal of evaluating and recommending energy solutions that will result in greater efficiency, energy cost savings and lower environmental impact. This approach allows energy users to apply strategic efforts to reduce consumption analytically, as opposed to only replacing controls or undertaking expensive changes in equipment. Academically ready students can apply to the program following the guidelines of each location's competitive admission process. Interested applicants should review the information provided here and contact their program advisor for application requirements.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 140	Essentials of College Algebra	4
SOC 103	Sustainability and Society	3
Select 1 c		
COM 111	Human Communications	3
ECO 111	Macroeconomics	3
ECO 122	Microeconomics	3
PSY 100	Human Relations	3
PSY 121	General Psychology	3

PROGRAM/MAJOR COURSES

Courses		Credits
NRG 101	Intro to Energy Management	3
NRG 111	Res/Light Comm Energy	2
	Analysis	
NRG 124	Energy Efficient Methods	3
NRG 142	Energy Accounting	2
NRG 154	Alternativ Energy Technologies	2
NRG 206	Co-op Ed: Energy Management	3
NRG 214	Capstone in Energy Use/Anal.	6
NRG 223	Energy Control Strategies	3
NRG 233	Lighting Fundmt & Applications	4
NRG 241	Energy Investment Analysis	2

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>		Credits
ACR 121	HVAC Energy Systems	3
ACR 222	Commercial HVAC Energy	2
	Analysi	
OAT 152	Excel Level I	3
PHY 111	Conceptual Physics	4
AET 111	Constr Blueprint Reading	4
or		
AET 123	Arch Drafting/Design I	4

Entrepreneurial

Entrepreneurship

A.A.S. Degree (O,T,W)

The Entrepreneurship Program is a comprehensive program of integrated credit and non-credit offerings providing opportunities for students to learn successful entrepreneurship. Students may complete an associate degree in entrepreneurship, complete entrepreneurship courses while majoring in another career area for a dual associate degree, complete entrepreneurship courses for a credit certificate, or complete entrepreneurship courses in a non-credit format earning continuing education units (CEU's). Supporting Offerings are provided, which relate to each of the entrepreneurship courses. These Supporting Offerings include Meet the Entrepreneur Series and the Tell Me More Series where experts expand upon topics taught in the courses. An annual conference each spring will be a culminating activity.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ECO 111	Macroeconomics	3
ECO 122	Microeconomics	3
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 140	Essentials of College Algebra	4
or		
MAT 153	College Math and Statistics	4

PROGRAM/MAJOR COURSES

<u>Courses</u>		Credits
ENT 103	Legal Issues for ENT	3
ENT 106	Business Procedures	3
ENT 211	Business Start Up Design	3
ENT 220	Leadership	3
ENT 225	Entrepreneurial Experience	3
ENT 240	Funding & Finance for ENT	3
ENT 285	Business Plan Development	3
MGT 212	Principles of Management	3
MGT 231	Human Resource Management	3
ENT 101	Intro to Entrepreneurship	3
or		
BUS 101	Introduction to Business	3

Cour	ses		Credits
CIS	107	Intro to Computers/Application	3
MKT	212	Principles of Marketing	3
ACC	100	Introduction to Accounting	3
or			
ACC	101	Accounting I	4
ENG	122	Technical Writing-Comm	3
or			
ENG	124	Oral Communications	3
Seled	ct 1 c	ourse(s) from:	
ACC	162	Computerized Accounting	3
EBZ	220	Fundamentals of E-Commerce	3



MIS	220	Management Information	3
		Systems	
MKT	217	E-Marketing Fundamentals	3

Engineering

Environmental Technology: Environmental Engineering Technology

A.A.S. Degree (O,S)

The program provides a full range of courses to prepare students for entry-level positions in the environmental engineering technology field. The Environmental Engineering Technology Program is designed to educate students in the general and technical aspects of environmental issues and common practice environmental procedures. The degree focuses on practical education with courses covering the basic quantitative and conceptual skills required of environmental engineering technicians. The curriculum is broad-based to meet the demands of a range of environmental positions.

CORE COURSES

Courses	<u>Credits</u>
ECO 111 Macroeconomics	3
ENG 101 Crit Thinking & Acad Writing	3
ENG 102 Composition and Research	3
CLT 110 Cross-Cultural Immersion	3
or	
PSY 121 General Psychology	3
Select 1 course(s) from:	
MAT 181 Algebra and Trigonometry I	4
MAT 185 Precalculus	4
MAT 281 Calculus I	4

PROGRAM/MAJOR COURSES

<u>Courses</u>		<u>Credits</u>
CET 125	Civil & Envl Drafting & Design	4
CET 144	Surveying Principles	4
CET 240	Hydraulics and Hydrology	4
ENV 190	Intro to Envtl Science & Tech	3
ENV 215	OSHA Hazardous Waste	2
	Operation	
ENV 240	Environmental Field Sampling	3
ENV 260	Water/Wastewater Process	4
	Dsgn	
ENV 271	Principles of Site Assessment	2
ENV 275	Environmental Sustainability	3
	Geology and the Environment	3

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>			<u>Credits</u>
BIO	150	Biology I	4
CHM	110	General Chemistry	4

EDD 17	Intro to CAD Using AutoCAD	3
GIS 10	Introduction to GIS	3
MAT 153	B College Math and Statistics	4
or		
PHY 20!	General Physics I	4

Allied Health

Exercise Science

A.A.S. Degree (W)

This curriculum is designed to prepare students as fitness technicians. Students will learn to properly conduct health screenings, administer exercise tests, and develop cardiovascular and strength training exercise programs. Through the technical component of the program, students will develop an in-depth understanding of exercise physiology, kinesiology, exercise testing, and fitness programming. Graduates will be qualified to sit for various certifications as offered by the American Council on Exercise (ACE), National Strength and Conditioning Association (NSCA), and American College of Sports Medicine (ACSM) as a Certified Personal Trainer, Group Fitness Instructor, or Lifestyle and Weight Management Coach.

Academically ready students can apply to the program following the guidelines of the Allied Health competitive admission process. Interested applicants should review the information provided here and contact their program advisor for application requirements.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
PSY 121	General Psychology	3
MAT 153	College Math and Statistics	4
or		
MAT 181	Algebra and Trigonometry I	4
or		
MAT 185	Precalculus	4
SOC 111	Sociology	3
or		
SOC 213	Ethical Issues in Health Care	3

PROGRAM/MAJOR COURSES

Courses			<u>Credits</u>
EXS	100	Introduction to Exercise Scien	4
EXS	101	Functional Kinesiology	3
EXS	105	Conditioning & Strength Trning	4
EXS	120	Wellness and Health Promotion	3
EXS	135	Exercise Science Clinical I	2
EXS	200	Nutrition for Sport & Exercise	3
EXS	205	Fitness for Special Populatns	3



EXS	225	Advanced Exercise Testing	4
EXS	230	Health Fitness Instruction	4
EXS	235	Exercise Clinical II	5

Courses			<u>Credits</u>
BIO	115	Nutrition	3
BIO	120	Anatomy and Physiology I	5
BIO	121	Anatomy and Physiology II	5
HLH	110	First Aid, Safety & CPR	3

Fire Protection Engineering Technology

Fire Protection

A.A.S. Degree (S)

This curriculum is designed to provide the necessary knowledge and skills to work in many areas of the fire protection field and to help solve fire protection and related safety problems in our complex technological society. Technical changes within industry and an increase in the number, variety, type of chemicals, flammable and combustible products, and population densities have accentuated the fire problem. The fire protection engineering technician has a broad scope of occupational opportunities in a variety of areas which include insurance, industry, equipment manufacturers, municipal, and state agencies. Fire protection engineering technicians apply their knowledge in a systematic approach to plans review, occupancy inspections for code compliance, fire prevention planning, fire safety and loss prevention programs, fire administration, equipment representation and sales, and fire protection system design. Laboratory work, field inspections, and field trips provide added experiences. The Fire Protection program emphasizes design and application principles.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ECO 111	Macroeconomics	3
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 181	Algebra and Trigonometry I	4
PSY 121	General Psychology	3

PROGRAM/MAJOR COURSES

Courses			<u>Credits</u>
FET	111	Intro to Fire Protec Eng Tech	4
FET	112	Fire Protection Systems	3
FET	160	Codes and Standards	4
FET	200	Industrial Fire Hazards	4
FET	201	Loss Control Procedures	3
FET	221	Fire Design I	4

FET	222	Fire Protection Design II	4
FET	261	Inspections	4

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>			<u>Credits</u>
AET	123	Arch Drafting/Design I	4
AET	264	Architectural CAD Applications	3
CHM	110	General Chemistry	4
EDD	171	Intro to CAD Using AutoCAD	3
PHY	111	Conceptual Physics	4

Food Safety

Food Safety

A.A.S. Degree (O)

Employment demands for highly skilled Food Safety graduates are projected to continue to increase over the next decade. Food Safety is the application of food science to the selection, preservation, processing, packaging, distribution, and use of safe food. The food consumed on a daily basis is the result of extensive food research - a systematic investigation by food scientists into a variety of foods' properties and compositions. It is through the application of the research that food reaches the consumer. Using the principles of food safety, food products are mass produced, and it is the food safety technicians who have the knowledge of selection, preservation, processing, packaging, and distribution resulting in safe food being consumed. All of these interrelated fields contribute to the food industry -- the largest manufacturing industry in the United States.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ECO 111	Macroeconomics	3
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 153	College Math and Statistics	4
or		
MAT 181	Algebra and Trigonometry I	4
or		
MAT 185	Precalculus	4
PSY 121	General Psychology	3
or		
SOC 111	Sociology	3

PROGRAM/MAJOR COURSES

Cour	Credits		
FSY	100	Introduction to Food Science	3
FSY	110	Food Safety & Sanitation	4
FSY	120	Technology of Food Processing	3
FSY	205	Principles of HACCP	3
FSY	210	Food Safety & Defense	3



FSY	220	Food Chemistry	4	ACC 101	Accounting I
FSY	225	Microbiology of Foods	4	BUS 101	Introduction to Business
FSY	290	Food Safety Internship	5	CIS 107	Intro to Computers/Applicat
FSY	291	Seminar in Food Safety	2	MGT 148	Culinary Supervisory
					Develpmnt
PRO	GRAI	M/MAJOR SUPPORT COURSES		SCI 141	Nutrition in the Culinary Fld

<u>Courses</u>		<u>Credits</u>
BIO 115	Nutrition	3
BIO 140	General Biology	4
CHM 100	Basic Chemistry	3
CIS 107	Intro to Computers/Application	3
POS 215	Poultry Production	3
	Management	

Food Service Management

Food Service Management

A.A.S. Degree (S)

This management program prepares students for a professional career in the hospitality industry. In addition to the course work, industry work experience is required for the degree. Students will be prepared for employment in full service dinner houses, family restaurants, institutional facilities, and casual dining operations. The Food Service Management program is accredited by the American Culinary Federation, Foundation Inc.'s Accrediting Commission; 180 Center Place Way; St. Augustine, FL 32095: 800-624-9458.

CORE COURSES

<u>Courses</u>		Credits
COM 111	Human Communications	3
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 120	Math for Behavioral Sciences	3
PSY 121	General Psychology	3

PROGRAM/MAJOR COURSES

Courses			<u>Credits</u>
CUL	119	Food Safety and Sanitation	2
CUL	121	Food Prep I	4
CUL	245	Applied Hospitality	2
FSM	123	Intro to Food Service	3
FSM	151	Field Experience I	3
FSM	152	Field Experience II	3
FSM	210	Quantity Food Production	3
FSM	265	Effectv Food Serv Mrkt & Mngnt	3
HRI	210	Beverage Management	3
HRI	212	Food/Beverage Cost Control	3
HRI	219	Innkeepers' Law	3

PROGRAM/MAJOR SUPPORT COURSES

Courses	Credits

Business

General Business

A.A.S. Degree (O,T,W)

General Business is tailored to enable students to combine studies in non-business and business courses that best match their individual education goals. This program is intended for full-time business students who plan to transfer to a four-year business college or university after graduation before entering the workforce. This flexibility affords students a unique preparation for continued business studies at an institution of higher learning as well as preparation for professional and technical careers requiring basic business and specific technical skills. A degree from this program, which has earned national accreditation from the Association of Collegiate Business Schools and Programs (ACBSP), sends a clear signal to potential employers that you have completed a high quality business program that meets rigorous educational requirements established by the ACBSP.

CORE COURSES

<u>Courses</u>		Credits
ECO 111	Macroeconomics	3
ECO 122	Microeconomics	3
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 140	Essentials of College Algebra	4
or		
MAT 153	College Math and Statistics	4

PROGRAM/MAJOR COURSES

<u>Courses</u>		Credits
ACC 101	Accounting I	4
ACC 112	Accounting II	4
BUS 101	Introduction to Business	3
BUS 203	Business Law	3
BUS 275	Portfolio/Experiential Lrning	3
FIN 221	Money and Banking	3
MGT 212	Principles of Management	3
MKT 212	Principles of Marketing	3
Select 2 c	ourse(s) from:	
ACC 162	Computerized Accounting	3
MGT 218	Small Business Management	3
MGT 231	Human Resource Management	3
MIS 220	Management Information	3
	Systems	

4 3

3 3

2

ation



Advertising and Promotion	3
Sales & Sales Management	3
Keyboarding	4
Access Level I	3
Excel Level I	3
Word Level I	3
Word Level II	3
PowerPoint	3
Desktop Publishing	4
Where's My Money	1
Are You Credit Worthy?	1
Planning for the Beach	1
	Sales & Sales Management Keyboarding Access Level I Excel Level I Word Level I Word Level II PowerPoint Desktop Publishing Where's My Money Are You Credit Worthy?

Cour	ses		<u>Credits</u>
CIS	107	Intro to Computers/Application	3
CIS	112	Spreadsheet/Graphics Proc	3
MAT	255	Business Statistics I	3
SOC	215	Business Ethics	3
Seled	ct 1 c	ourse(s) from:	
ENG	122	Technical Writing-Comm	3
ENG	124	Oral Communications	3
HIS	111	U. S. History: Pre-Civil War	3
HIS	112	U. S. History: Post-Civil War	3
PSY	121	General Psychology	3
SOC	111	Sociology	3
SPA	136	Spanish Communication I	4

Allied Health

Health Information Management

A.A.S. Degree (W)

The Health Information Management associate degree curriculum provides individuals with the knowledge and skills to process, analyze, abstract, compile, maintain, manage, and report health information. The program is designed to prepare students to function effectively in a technical manner in health information departments in a wide variety of healthcare settings. These settings include ambulatory care, rehabilitation centers, drug and alcohol facilities, local health departments, third-party payers, pharmaceutical companies, acute care, as well as other health care related organizations such as insurance companies, consulting and outsourcing firms, and technology companies. Health Information professionals are responsible for maintaining components of health information computer systems, protecting patient privacy and providing information security, ensuring health information is complete and available to legitimate users, coding and classifying data for reimbursement, analyzing information necessary for decision support, complying with standards and regulations regarding health information, preparing health data for accreditation and licensing surveys, and analyzing clinical data for research and public policy. In all types of facilities, and in various

locations within a facility, the health information technician possesses the technical knowledge and skills necessary to process, maintain, compile and report health information data for reimbursement, facility planning, marketing, risk management, utilization management, quality improvement, and research. In addition, the health information technician may be responsible for functional supervision of the various components of the health information system. This program provides instruction and clinical experiences that assist students in developing the technical skills necessary for many entry level health information positions. Graduates will receive the associate in applied science degree from the College and may be eligible to sit for a variety of credentialing exams in the career field. Academically ready students can apply to the program following the guidelines of the Allied Health's competitive admission process. Interested applicants should review the information provided here and contact their program advisor for application requirements. The Health Information Management associate degree program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM)

CORE COURSES

<u>Courses</u>	<u>Credits</u>	
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 135	Biomedical Statistics	3
PSY 121	General Psychology	3
SOC 213	Ethical Issues in Health Care	3

PROGRAM/MAJOR COURSES

<u>Courses</u>	<u>Credits</u>	
HIM 120	ICD Coding I	4
HIM 121	ICD Coding II	4
HIM 122	CPT Coding	4
HIM 130	Legal Aspects of HIM	3
HIM 131	HIM and Healthcare IT	4
HIM 222	Healthcare Reimbursement	3
HIM 225	Technical Practicum	3
HIM 230	Supervision & Organization	3
HIM 231	Quality Assessment	3
HIM 250	Professional Practicum	4
HIT 100	Intro to Health Information	3

<u>Courses</u>			Credits
BIO	100	Medical Terminology	3
BIO	108	Basic Pharmacology	2
BIO	120	Anatomy and Physiology I	5
BIO	121	Anatomy and Physiology II	5
BIO	130	Disease Proc/Pathophysiology	3
CIS	107	Intro to Computers/Application	3



Allied Health

Histotechnician

A.A.S. Degree (W)

Histotechnology is the art of preparing tissue through specialized cutting, embedding, and staining procedures for both research and diagnostic purposes. The histotechnician is the skilled specialist who prepares and stains these thin tissue specimens for examination by pathologists, dermatologists, researchers, and biologists. They are also trained to perform immunohistochemistry, complex molecular biology and genetic testing procedures using high-tech instruments. Histotechnicians may be employed in hospitals, dermatology laboratories, outpatient laboratories, veterinary facilities, or research laboratories. They work with pathologists, dermatologists, pharmaceutical companies, or forensic investigators. The specimens they prepare can be of human, animal, marine, or plant tissue. The program is fully accredited through the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) 5600 N. River Road, Suite 720, Rosemont, IL 60018, (773) 714-8880 and prepares students to sit for the A.S.C.P. examination. Academically ready students can apply to the program following the guidelines of the Allied Health competitive admission process. Interested applicants should review the information provided here and contact their program advisor for application requirements.

CORE COURSES

Courses	<u>Credits</u>	
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
PSY 121	General Psychology	3
SOC 111	Sociology	3
SOC 213	Ethical Issues in Health Care	3
MAT 153	College Math and Statistics	4
or		
MAT 181	Algebra and Trigonometry I	4

PROGRAM/MAJOR COURSES

<u>Courses</u>	<u>Credits</u>	
HTT 100	Intro To Histotechnology	2
HTT 201	Histology	2
HTT 202	Histology Internship	9
HTT 211	Histotechnology Procedures I	3
HTT 212	Histotechnology Procedures II	3
HTT 220	Histochemistry I	3
HTT 221	Histochemistry II	3

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>			<u>Credits</u>
BIO	100	Medical Terminology	3

BIO	120	Anatomy and Physiology I	5
BIO	121	Anatomy and Physiology II	5
BIO	125	Introductory Microbiology	4
CHM	110	General Chemistry	4
CHM	111	Intro to Organic & Biochemstry	4
CIS	107	Intro to Computers/Application	3

Criminal Justice

Homeland Security and Emergency Management

A.A.S. Degree (T)

The Homeland Security and Emergency
Management Option is a comprehensive option that
will provide opportunities to partner with non-credit
and continuing education offerings of the college.
Students may elect to complete an associate degree
in the Homeland Security and Emergency
Management Option, take courses in the subject
matter while majoring in another career area for a
dual associate degree, take courses for a credit
certificate in the discipline, or take courses in a
non-credit format earning continuing education
credits (CEU's).

CORE COURSES

<u>Courses</u>	<u>Credits</u>	
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
PSY 121	General Psychology	3
SOC 111	Sociology	3
MAT 153	College Math and Statistics	4
or		
MAT 120	Math for Behavioral Sciences	3

PROGRAM/MAJOR COURSES

<u>Courses</u>		<u>Credits</u>
CRJ 226	Crisis Intervention	3
HDM 101	Intro HmInd Sec/Emrgncy Mngt	3
HDM 103	Info/Intel Shrg in HmInd Sec	3
HDM 105	Environmental Hazards	3
HDM 110	Issues Hmland Sec & Emg Mgt	3
HDM 202	First Responder	3
HDM 204	All-Hzrds/Infra/Protection	3
HDM 225	Supervision Leadership in E M	3
HDM 244	Introduction to Terrorism	3
ISY 143	Intro to Information Security	3

<u>Courses</u>			<u>Credits</u>
CIS	107	Intro to Computers/Application	3
CRJ	222	Constitutional Law	3
CRJ	223	Criminology	3
ENG	122	Technical Writing-Comm	3
SPA	133	Using Beginning Spanish	3



DELA	WARE
TECHNICAL	COMMUNITY
COL	LEGE

OI .			
SPA	136	Spanish Communication I	4

Business

Hospitality Management

A.A.S. Degree (T,W)

As a manager in a hotel, restaurant, country club, theme park or attractions environment, you will play a vital role in the success of that organization. Along with a solid background in the principles of business, hospitality management requires a thorough knowledge of specific areas of hospitality operations. A degree from this program, which has earned national accreditation from the Association of College Business Schools and Programs (ACBSP), sends a clear signal to potential employers that you have completed a high quality business program that meets rigorous educational requirements established by the ACBSP. The majority of hospitality management courses are approved by the Educational Institute of the American Hotel and Motel Association.

CORE COURSES

<u>Courses</u>	<u>Credits</u>	
ECO 111	Macroeconomics	3
ECO 122	Microeconomics	3
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 140	Essentials of College Algebra	4
or		
MAT 153	College Math and Statistics	4

PROGRAM/MAJOR COURSES

Cour	Credits		
CUL	119	Food Safety and Sanitation	2
HRI	101	Introduction to Hospitality	3
HRI	210	Beverage Management	3
HRI	211	Food Principles/Menu Planning	3
HRI	212	Food/Beverage Cost Control	3
HRI	214	Principles of Hospitality Mgmt	3
HRI	215	Lodging Operations	3
		Management	
HRI	216	Property Management	3
HRI	219	Innkeepers' Law	3
MGT	231	Human Resource Management	3
MKT	212	Principles of Marketing	3
or			
ENG	122	Technical Writing-Comm	3

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>	<u>Credits</u>	
ACC 101	Accounting I	4
ACC 112	Accounting II	4

CIS	107	Intro to Computers/Application	3
MAT	255	Business Statistics I	3
SPA	136	Spanish Communication I	4
or			
ENT	220	Leadership	3

Human Services

Human Services

A.A.S. Degree (O,T,W)

The mission of the Human Services Program is to provide students with an educational foundation which will allow them to successfully gain entry level employment within the human services arena and/or to succeed in continuing their education at a baccalaureate level upon graduation. The curriculum and individual courses consist of a balance between providing students with a strong theoretical and content foundation as well as an experiential, skill development component in order to prepare students to continue their education and/or to allow them to interface competently and ethically with clients and colleagues in a career setting.

The Human Services program at the Owens, Terry, and Wilmington Campuses are accredited by the Council for Standards in Human Service Education (CSHSE). The regional offices are located at 3337 Duke Street, Alexandria, VA 22314-5219,(571)257-3969 and the web site is http://www.cshse.org.

CORE COURSES

<u>Courses</u>	<u>Credits</u>	
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
PSY 121	General Psychology	3
PSY 223	Abnormal Psychology	3
MAT 120	Math for Behavioral Sciences	3
or		
MAT 153	College Math and Statistics	4

PROGRAM/MAJOR COURSES

<u>Courses</u>		Credits
HMS 121	Intro To Human Services	3
HMS 122	Theories of Counseling	3
HMS 123	Dynamics/Group	3
	Communication I	
HMS 221	Ethical Problems and Issues	3
HMS 223	Social Policy/Program Planning	3
HMS 225	Interviewing/Counseling Skills	3
HMS 243	Directed Practice I	6
HMS 244	Directed Practice II	6



Courses			Credits
CIS	107	Intro to Computers/Application	3
POL	111	Political Science	3
PSY	127	Human Development	3
SOC	111	Sociology	3
Sele			
BIO	110	Essentls-Anatomy & Physiology	4
BIO	120	Anatomy and Physiology I	5
BIO	140	General Biology	4
BIO	150	Biology I	4

Information Security

Information Security

A.A.S. Degree (O,T,W)

The curriculum addresses local, regional, and national workforce needs following the National Security Telecommunications and Information Systems Security standards. Students graduating with an associate degree in Information Security will be able to protect personal and networked computing devices from various kinds of cyber attacks. Building and maintaining secure networks, policies, and operating systems are key components to the curriculum.

CORE COURSES

<u>Courses</u>	<u>Credits</u>	
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 153	College Math and Statistics	4
PSY 121	General Psychology	3
SOC 111	Sociology	3

PROGRAM/MAJOR COURSES

<u>Courses</u>				
ISY	111	Ethics & the Information Age	2	
ISY	143	Intro to Information Security	3	
ISY	150	Introductory Scripting	4	
ISY	201	Advanced Operating Systems	3	
ISY	243	Information & Network Security	4	
ISY	250	Network Def &	3	
		Countermeasures		
ISY	251	Hardening the Infrastructure	3	
ISY	270	Computer Forensics	4	
ISY	280	Advanced Security Topics	3	

PROGRAM/MAJOR SUPPORT COURSES

Courses			<u>Credits</u>
CIS	120	Intro to Programming	4
CIS	141	Operating Systems I	3
CNE	180	Computer Assmbly &	4
		Maintenance	
CNE	192	Network Administration	4

Electronic Engineering Technology

Instrumentation Option

A.A.S. Degree (S)

The Instrumentation Engineering Technology Option prepares graduates for careers as process control instrumentation engineering technicians. Workplace duties can include design, specification, management and troubleshooting of instrumentation and control systems in the areas of chemical processing, food processing, petrochemical production, manufacturing, energy production and other highly technical fields. Graduates offer their employers immediate contributions as team members equipped with a combination of technical knowledge, problem solving experience and communication skills. Courses include a strong component of practical applications, hands-on laboratory experience and basic theoretical concepts. Computer simulation and applications are an integral part of the curriculum. Studies focus on electrical and electronic circuits, digital circuits, microprocessors, computers, programmable logic controls, liquid and gas flow measurement, control systems, instrumentation and calibration. The Instrumentation Engineering Technology Option is a path through the Electronics Engineering Technology program.

CORE COURSES

	<u>Credits</u>
Crit Thinking & Acad Writing	3
Composition and Research	3
Algebra and Trigonometry I	4
Algebra and Trigonometry II	4
course(s) from:	
Macroeconomics	3
Microeconomics	3
Political Science	3
Human Relations	3
General Psychology	3
Sociology	3
	Composition and Research Algebra and Trigonometry I Algebra and Trigonometry II Fourse(s) from: Macroeconomics Microeconomics Political Science Human Relations General Psychology

PROGRAM/MAJOR COURSES

<u>Courses</u>			Credits
ELC	101	Intro to Instrumentation	3
ELC	125	Electrical Circuits I	4
ELC	126	Analog Electronics I	3
ELC	127	Digital Electronics	4
ELC	225	Electrical Circuits II	4
ELC	227	Microcontroller Fundamentals	3
ELC	228	Microcontroller Applications	4
ELC	243	Programmable Logic	4
		Controllers	
ELC	270	Process Instrumentation I	4



Courses	<u>Credits</u>	
CEN 100	Intro Elec & Computer Eng	3
	Tech	
CEN 150	Computer Assembly/Maint	4
CEN 180	C/C++ Language Intro	4
PHY 205	General Physics I	4

Applied Agriculture

Landscape and Ornamental Horticulture

A.A.S. Degree (O)

Horticulture relates to the production and marketing of ornamental plants. Greenhouse operations, lawn and garden services, and nursery operations are all branches of horticulture.

CORE COURSES

<u>Courses</u>		Credits
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 125	Math for the Trades	4
or		
MAT 150	Business Mathematics	3
Select 2 co	ourse(s) from:	
POL 111	Political Science	3
PSY 100	Human Relations	3
PSY 121	General Psychology	3
SOC 111	Sociology	3

PROGRAM/MAJOR COURSES

Cour		Call Calana	Credits
AGS	IOI	Soil Science	3
AGS	104	Intro to Agribusiness Managemt	3
AGS	105	Prin of Plant Growth	3
AGS	123	Trfgrss Maintenance Practices	3
AGS	136	Turf Equipment Operations	3
AGS	203	Plant Identification	3
AGS	232	Horticulture Cooperative	3
AGS	243	Golf & Turf Irrigation	3
AGS	244	Landscape Plans &	3
		Construction	
AGS	250	Greenhouse Crop Production	3
SCI	206	Pesticide Principles and Apps	3

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>	Credits		
BUS 101	Introduction to Business	3	
CIS 107	Intro to Computers/Application	3	
OAT 152	Excel Level I	3	
OAT 157	Word Level I	3	
Select 1 course(s) from:			
BIO 150	Biology I	4	

BIO	151	Biology II	4
CHM	100	Basic Chemistry	3
CHM	110	General Chemistry	4

Criminal Justice

Law Enforcement Option

A.A.S. Degree (O,T,S)

The Law Enforcement Option is an associate degree program designed and offered in collaboration with the Delaware State Police Training Academy. Students who elect this option will be required to pass a background check preliminarily qualifying them as potential police recruit. The student will then take a curriculum of courses based on the criminal justice associate degree appropriate to the law enforcement career path culminating in a 13-credit lecture and lab course taught by certified police instructors.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
PSY 121	General Psychology	3
SOC 111	Sociology	3
MAT 120	Math for Behavioral Sciences	3
or		
MAT 153	College Math and Statistics	4
	=	

PROGRAM/MAJOR COURSES

<u>Courses</u>			<u>Credits</u>
CRJ	101	Intro to Criminal Justice	3
CRJ	102	Criminal Law	3
CRJ	104	Drugs Society/Human Behavior	3
CRJ	105	Computer Appl in Crim./Justice	3
CRJ	115	Essntls of Intrvwng/Counsing	3
CRJ	220	Criminal Judiciary	3
CRJ	222	Constitutional Law	3
CRJ	226	Crisis Intervention	3
CRJ	237	Law Enforcement Practicum	13

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>		Credits
CIS 107	Intro to Computers/Application	3
ENG 122	Technical Writing-Comm	3
ENG 124	Oral Communications	3
HDM 202	First Responder	3
PSY 223	Abnormal Psychology	3
SPA 133	Using Beginning Spanish	3
or		
SPA 136	Spanish Communication I	4

Business



Management

A.A.S. Degree (O,T,W)

Business Management will prepare the graduate to handle supervisory level management positions in different types of organizational settings in all sectors of the business world. The student will gain a broad based knowledge of support fields such as accounting, law, computers and communications. You will gain knowledge and skills in specific areas of management such as resource training and development, project management, organizational behavior and strategy development.

Business Management courses are offered day and evening and most are also offered using online and other distance learning formats. The Department of Business Programs has earned national accreditation from the Association of Collegiate Business Schools and Programs (ACBSP) which sends a clear signal to potential employers that you have completed a high quality business program.

CORE COURSES

<u>Courses</u>	<u>Credits</u>	
ECO 111	Macroeconomics	3
ECO 122	Microeconomics	3
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 140	Essentials of College Algebra	4
or		
MAT 153	College Math and Statistics	4

PROGRAM/MAJOR COURSES

Courses		<u>Credits</u>
ACC 101	Accounting I	4
ACC 112	Accounting II	4
BUS 101	Introduction to Business	3
BUS 203	Business Law	3
BUS 275	Portfolio/Experiential Lrning	3
HRM 224	Training and Development	3
MGT 212	Principles of Management	3
MGT 218	Small Business Management	3
MGT 231	Human Resource Management	3
MKT 212	Principles of Marketing	3

PROGRAM/MAJOR SUPPORT COURSES

Courses		Credits
CIS 107	Intro to Computers/Application	3
ENT 220	Leadership	3
MAT 255	Business Statistics I	3
ENG 122	Technical Writing-Comm	3
or		
ENG 124	Oral Communications	3
or		
ENG 160	Business Communication	3

CIS	112	Spreadsheet/Graphics Proc	3
or			
OAT	152	Excel Level I	3

Business

Marketing

A.A.S. Degree (O,T,W)

With an education in Marketing, the graduate will be prepared to work in a variety of entry-level marketing positions in different types of organizational settings in all sectors of the business world. You will gain broad-based knowledge of support fields such as accounting, law, computers and communications.

You will gain knowledge and skills in specific areas of marketing, such as advertising, e-marketing, sales and sales management, retailing and graphic design. Marketing courses are offered days and evenings and most are offered using online and other distance learning formats. The Department of Business Programs has earned national accreditation from the Association of Collegiate Business Schools and Programs (ACBSP) which sends a clear signal to potential employers that you have completed a high-quality business program.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ECO 111	Macroeconomics	3
ECO 122	Microeconomics	3
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 140	Essentials of College Algebra	4
or		
MAT 153	College Math and Statistics	4

PROGRAM/MAJOR COURSES

<u>Courses</u>		<u>Credits</u>
ACC 101	Accounting I	4
ACC 112	Accounting II	4
BUS 101	Introduction to Business	3
BUS 203	Business Law	3
BUS 275	Portfolio/Experiential Lrning	3
MGT 212	Principles of Management	3
MKT 212	Principles of Marketing	3
MKT 214	Advertising and Promotion	3
MKT 217	E-Marketing Fundamentals	3
MKT 219	Sales & Sales Management	3

PROGRAM/MAJOR SUPPORT COURSES

Cour	<u>ses</u>		Credits
CIS	107	Intro to Computers/Application	3
MAT	255	Business Statistics I	3



OAT	242	Desktop Publishing	4
SOC	215	Business Ethics	3
ENG	122	Technical Writing-Comm	3
or			
ENG	124	Oral Communications	3
or			
ENG	160	Business Communication	3

Mechanical Engineering Technology

Mechanical Engineering Technology

A.A.S. Degree (S)

The mechanical engineering technician applies theory and principles of mechanical engineering technology to develop and test processes, equipment and mechanical systems in cooperation with an engineering staff; reviews project construction and engineering drawings to determine specifications, procedures, objectives, problems, and possible solutions; sets up and conducts tests and experiments for complete units or systems to investigate engineering theories regarding improvement in design or performance; analyzes indicated and calculated test results against design or rated specifications; records test procedures, results, and suggestions for improvement; prepares engineering drawings, charts, and graphs. The Mechanical Engineering Technology program at the Stanton Campus is accredited by the Engineering Technology Accreditation Commission of ABET, http://www.abet.org.

CORE COURSES

Courses		Credits
	Algebra and Trigonometry I	4
	Composition and Research	3
	Crit Thinking & Acad Writing	3
	ourse(s) from:	
COM 111	Human Communications	3
ECO 111	Macroeconomics	3
ECO 122	Microeconomics	3
HIS 111	U. S. History: Pre-Civil War	3
HIS 112	U. S. History: Post-Civil War	3
POL 111	Political Science	3
PSY 100	Human Relations	3
PSY 121	General Psychology	3
SOC 111	Sociology	3

PROGRAM/MAJOR COURSES

Courses		<u>Credits</u>
MET 115	Intro Mechanical Engr Tech	3
MET 123	Modern MFG Techniques	3
MET 125	Adv Manufacturing Techniques	3
MET 132	Statics	3
MET 241	Fluid Mechanics	4

MET 242	Strength of Materials	3
MET 243	Dynamics	3
MET 245	Machine Design	3
MET 252	Fluid Power	3
MET 264	Material Science	4
MET 271	Engineering Project	3

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>		Credits
EDD 131	Engineering Graphics/CAD	3
ELC 248	Electro-Mech. Systems	4
MAT 182	Algebra and Trigonometry II	4
or		
MAT 185	Precalculus	4
PHY 205	General Physics I	4
or		
PHY 281	Physics I with Calculus	4

Allied Health

Medical Assistant

A.A.S. Degree (W)

The Medical Assistant is a multiskilled professional who works with other members of the health care team performing both clinical duties (assisting with patient care) and administrative duties (performing medical office duties.) Graduates of the program may be employed in physicians' offices, hospitals, and other health care facilities. The program consists of course work in the following: keyboarding, medical transcription, business and computer applications for the medical office, insurance coding, phlebotomy, routine diagnostic testing, performing electrocardiograms, obtaining vital signs, and assisting the physician in clinical procedures. In addition to course work and laboratory experiences on campus, students are required to complete a supervised internship in a medical facility. The Associate Degree program at the Wilmington Campus is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) on the recommendation of the Medical Assisting Education Review Board (MAERB), a Committee on Accreditation (CoA) of CAAHEP. Commission on Accreditation of Allied Health Education Programs, 1361 Park Street Clearwater, FL 33756, (727) 210-2350.

Graduates may apply to take the certification exam given by the American Association of Medical Assistants (AAMA). Successful candidates are Certified Medical Assistants (CMA-AAMA). Academically ready students can apply to the program following the guidelines of the Allied Health competitive admission process. Interested applicants should review the information provided here and contact their program advisor for application



requirements.

CORE COURSES

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PROGRAM/MAJOR COURSES

Courses		Credits
MEA 100	Intro to Medical Assisting	3
MEA 120	Medical Office Procedures I	4
MEA 125	Medical Office Procedures II	4
MEA 150	Medical Lab Procedures I	4
MEA 151	Medical Lab Procedures II	4
MEA 170	Pharmacology for Medical Asst	4
MEA 270	Medical Assistant Seminar	3
MEA 290	Medical Assistant Internship	4

PROGRAM/MAJOR SUPPORT COURSES

Courses			<u>Credits</u>
BIO	100	Medical Terminology	3
BIO	110	Essentls-Anatomy & Physiology	4
CIS	107	Intro to Computers/Application	3
OAT	121	Keyboarding	4
SOC	213	Ethical Issues in Health Care	3

Allied Health

Medical Laboratory Technician

A.A.S. Degree (O)

The Medical Laboratory Technician Associate Degree program prepares the student who wishes to seek employment as a medical laboratory technician in hospital laboratories, independent laboratories, physicians' offices, community health agencies, or as a technician in research centers, pharmaceutical laboratories, biomedical laboratories, or as a quality control technician in food processing or manufacturing companies.

Students wishing to enroll in the program will be required to submit evidence of a physical examination. The program includes didactic course work on campus followed by a clinical affiliation in an approved hospital. The program is fully accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) 8410 W. Bryn Mawr Avenue, Suite 670, Chicago, IL 60631-3415,

(773) 714-8880 5600 N. River Road, Suite 720, Rosemont, IL 60018, (773) 714-8880 which qualifies the graduates to take the ASCP registry examination for Medical Laboratory Technicians. Students will be required to complete the program within four calendar years. Academically ready students can apply to the program following the guidelines of the Allied Health competitive admission process. Interested applicants should review the information provided here and contact their program advisor for application requirements.

CORE COURSES

Courses	<u>Credits</u>	
ENG 101	. Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 153	College Math and Statistics	4
PSY 121	. General Psychology	3
SOC 213	Ethical Issues in Health Care	3

PROGRAM/MAJOR COURSES

	<u>Credits</u>
Hematology I	4
Hematology II	4
Clinical Chemistry I	4
Clinical Chemistry II	4
Clinical Microbiology I	4
Clinical Microbiology II	4
Immunology	4
Blood Banking	4
Clinical Practicum	7
	Hematology II Clinical Chemistry I Clinical Chemistry II Clinical Microbiology I Clinical Microbiology II Immunology Blood Banking

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>	<u>Credits</u>			
BIO 120 Anatomy and Physiology I	5			
BIO 121 Anatomy and Physiology II	5			
Select 1 course(s) from:				
CHM 110 General Chemistry	4			
CHM 150 Chemical Principles I	5			
Select 1 course(s) from:				
CHM 111 Intro to Organic & Biochemstry	4			
CHM 151 Chemical Principles II	5			

Visual Communications

Multimedia

A.A.S. Degree (T)

The Multimedia Design Option of the Visual Communications program is a new, innovative option that deals with visual media in non-print forms such as CD's, web pages, and interactive formats. This is a computer intensive option that seeks to blend the visual formats of still and video photography with sound and graphics to create presentations that will bring attention to a client's



product or service. Students in this option are able to extend their foundation work in traditional media into the electronic realm. Emphasis will be placed on creative problem solving in addition to skill building in intermediate to advanced multimedia software. Presentations will be designed and executed in preparation for inclusion in the student's final portfolio. Graduates of the program may enter careers in corporate or institutional marketing communication departments, electronic publishing firms, or opt for further study at the baccalaureate level.

CORE COURSES

<u>Courses</u>	<u>Credits</u>	
COM 111	Human Communications	3
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 150	Business Mathematics	3

PROGRAM/MAJOR COURSES

Courses		<u>Credits</u>
VSC 109	Drawing I	4
VSC 115	Intro To Design	3
VSC 125	Color And Composition	3
VSC 133	History of Graphic Design	2
VSC 155	Typography And Layout	3
VSC 160	Computer Graphics I	4
VSC 161	Computer Graphics II	4
VSC 165	Photography I	4
VSC 175	Print Production Processes	2
VSC 190	Intro To Videography	3
VSC 251		4
VSC 260	Multimedia Authoring	3
VSC 262	Computer Graphics III	4
VSC 270	Project Management	2
VSC 275	Self Promotion	2
VSC 131	Art History I	3
or		
VSC 132	Art History II	3

PROGRAM/MAJOR SUPPORT COURSES

Courses		<u>Credits</u>	
BUS	101	Introduction to Business	3
POL	111	Political Science	3
or			
PSY	121	General Psychology	3

Allied Health

Nuclear Medicine

A.A.S. Degree (W)

Nuclear Medicine is an imaging and therapeutic profession that utilizes minute traces of radioactive material in the determination of pathologic and physiologic conditions within the body. Students are trained in the proper techniques of intravenous radionuclide administrations, therapies, intricate computer applications, and detailed clinical procedures. The program is fully accredited through the Joint Review Committee on Educational Programs in Nuclear Medicine (JRCNMT) and prepares students for the national certification examination.

Students obtain clinical experience and competency at various hospitals and outpatient laboratories. Academically ready students can apply to the program following the guidelines of the Allied Health competitive admission process. Interested applicants should review the information provided here and contact their program advisor for application requirements.

CORE COURSES

<u>Courses</u>		<u>Credits</u>	
ENG 101	Crit Thinking & Acad Writing	3	
ENG 102	Composition and Research	3	
MAT 181	Algebra and Trigonometry I	4	
PSY 121	General Psychology	3	
SOC 213	Ethical Issues in Health Care	3	
PROGRAM/MAJOR COURSES			

Courses		Credits
HLH 215	Cardiovascular Monitoring	2
NMT 101	Patient Care for the NMT	2
NMT 115	Intro to NMT with Clinical Lab	4
NMT 121	Computers & Informatics	2
NMT 201	Nuclear Medicine I	4
NMT 202	Nuclear Medicine II	3
NMT 203	Nuclear Medicine III	2
NMT 211	Scan Reading I	1
NMT 212	Scan Reading & PET/CT	1
NMT 222	Nuclear Physics	3
NMT 223	Nuclear Med Instrumentation	4
NMT 224	Radiopharmacy &	2
	Pharmacology	
NMT 226	Radiobiology/Protection	2
NMT 295	Clinical Internship I	4
NMT 296	Clinical Internship II	5

PROGRAM/MAJOR SUPPORT COURSES

NMT 297 Clinical Internship III w/CT

PHY 112 Physics for Allied Health

<u>Courses</u>			Credits
BIO	100	Medical Terminology	3
BIO	120	Anatomy and Physiology I	5
BIO	121	Anatomy and Physiology II	5
CHM	110	General Chemistry	4
CHM	111	Intro to Organic & Biochemstry	4

6



MAT 135 Biomedical Statistics

30326; (404) 975-5000; www.acenursing.org.

Allied Health

Nursing

A.A.S. Degree (O,T,S)

The Associate of Applied Science nursing degree program at Delaware Technical Community College provides multiple learning opportunities through a balance of general education courses, nursing courses, and supervised clinical practice. The nursing graduate is prepared to care for individuals and families in a variety of health care settings. The graduate will function as an integral member of the healthcare team and utilize evidence-based practice that is patient centered. The graduate of the associate degree nursing program is academically eligible to take the National Council of State Boards of Nursing Licensure Examination for Registered Nurses (NCLEX-RN). The legal requirements for licensure in the State of Delaware are outlined in the Nursing Department Admissions Handbook. The associate degree nursing program provides a foundation for continuation of higher education through articulation with baccalaureate and master's degree nursing programs. The associate degree nursing program is offered at three Delaware Tech campuses: Newark (Stanton), Dover (Terry), and Georgetown (Owens). The program can be completed in five semesters and offers an accelerated option whereby students may self-select to complete their degree sooner. Advanced placement in the program is available for Licensed Practical Nurses (LPN) who hold a current license and for nationally certified Paramedics. Academically ready students can apply for admission to the associate degree nursing program following completion of its pre-requisite requirements. Full-time students following the five semester course sheet (rapid admission process) can also apply. Admission for all applicants is competitive and completion of pre-requisites does not guarantee admission. Interested students should review the written information provided and meet with their academic advisor to discuss program and application requirements and the competitive admission process. Interested students must attend or view an online nursing information session prior to submitting an application to the program. Transfer students must also follow the transfer policy of Delaware Technical Community College. The associate degree nursing program at each campus has full approval from the Delaware Board of Nursing and is nationally accredited through Accreditation Commission for Education in Nursing (ACEN). Information about the accreditation status of the Associate Degree program is available from the Accreditation Commission for Education in Nursing, 3343 Peachtree Road NE, Suite 850, Atlanta, GA

CORE COURSES

3

Course	es		Credits
ENG 1	.01	Crit Thinking & Acad Writing	3
ENG 1	.02	Composition and Research	3
MAT 1	.29	Math for Health Sciences	3
PSY 1	.27	Human Development	3
SOC 1	.11	Sociology	3

PROGRAM/MAJOR COURSES

Cours	ses		<u>Credits</u>
NUR	200	Nursing Concepts III	4
NUR	201	Maternal-Child Health Concepts	4
NUR	210	Nursing Concepts IV	4
NUR	211	Community & Profess Concepts	4
HLH	130	Nurse Assistant Training	6
and			
NUR	170	Nursing Concepts I	8
and			
NUR	180	Nursing Concepts II	4
and			
NUR	181	Mental Health Concepts	4
or			
NUR	190	Nursing Transition Course	6
and			
NUR	199	Nursing Advanced Credit	8

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>			<u>Credits</u>
BIO	120	Anatomy and Physiology I	5
BIO	121	Anatomy and Physiology II	5
BIO	125	Introductory Microbiology	4
CHM	100	Basic Chemistry	3

Allied Health

Occupational Therapy Assistant

A.A.S. Degree (O,W)

The Occupational Therapy Assistant is an individual who works under the supervision of a certified occupational therapist. The Occupational Therapy Assistant works with individuals or groups by implementing meaningful interventions which support participation in mastering everyday activities (occupations) at home, at work, at school, and in the community. For those with a disability, condition, or impairment being able to perform activities of daily living (ADL) is an important step toward a life that is as independent, productive, as satisfying as possible. The Occupational Therapy Assistant Program is designed to provide general education in the biological, behavioral, and health sciences followed by integrated occupational therapy instruction and laboratory experiences on



campus and fieldwork experiences in approved facilities. The Occupational Therapy Assistant Programs at the Owens and Wilmington Campuses are accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association, Inc. (AOTA), located at 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220. AOTA's phone number is (301) 652-AOTA (2682). AOTA's website is: http://www.aota.org. Graduates will be able to sit for the National Certification Examination for the Occupational Therapy Assistant administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be a Certified Occupational Therapy Assistant (COTA). Many states, including Delaware, require licensure to practice; however, that licensure is based on the results of the NBCOT Certification Exam. Level II Fieldwork (OTA 231 and OTA 232) must be completed within 18 months of the didactic course work for the OTA Program. Academically ready students can apply to the program following the guidelines of the Allied Health competitive admission process. Interested applicants should review the information provided here and contact their program advisor for application requirements.

CORE COURSES

Courses		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 135	Biomedical Statistics	3
PSY 121	General Psychology	3
PSY 127	Human Development	3

PROGRAM/MAJOR COURSES

Courses 4 1		<u>Credits</u>
OTA 110	Intro To Occupational Therapy	3
OTA 120	Activity Analysis	2
OTA 130	Kinesiology for the OTA	2
OTA 220	Pediatric Health Conditions	3
OTA 221	Adult & Geriatric Health Cond	3
OTA 222	Pediatric Intervention	4
OTA 223	Adult & Geriatric Intervention	4
OTA 224	Psychosocial Intervention	4
OTA 225	Clinical Fieldwork Level I-A	2
OTA 226	Clinical Fieldwork Level I-B	2
OTA 229	Professional Seminar	1
OTA 231	Clinical Fieldwork Level II-A	6
OTA 232	Clinical Fieldwork Level II-B	6

PROGRAM/MAJOR SUPPORT COURSES

Cour	<u>rses</u>		<u>Credits</u>
BIO	100	Medical Terminology	3

BIO	120	Anatomy and Physiology I	5
BIO	121	Anatomy and Physiology II	5
BIO	123	Clinical Functional Anatomy	3
PSY	223	Abnormal Psychology	3

Office Administration

Office Administration

A.A.S. Degree (O)

The Office Administration program offers a flexible program leading to the Associate Degree in Applied Science. While software applications and office administration skills are the foundation of this program, the course elective structure allows students the opportunity to acquire a broad base of business and computer skills to enhance upward mobility. Software certification opportunities are available.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 140	Essentials of College Algebra	4
or		
MAT 153	College Math and Statistics	4
ECO 111	Macroeconomics	3
or		
ECO 122	Microeconomics	3
Select 1 c	ourse(s) from:	
PSY 121	General Psychology	3
SOC 111	Sociology	3
SPA 133	Using Beginning Spanish	3
SPA 136	Spanish Communication I	4
SPA 137	Spanish Communication II	4

PROGRAM/MAJOR COURSES

<u>Courses</u>		<u>Credits</u>
OAT 121	Keyboarding	4
OAT 122	Keyboarding Applications	4
OAT 151	Access Level I	3
OAT 152	Excel Level I	3
OAT 157	Word Level I	3
OAT 158	Word Level II	3
OAT 159	PowerPoint	3
OAT 240	Integrated Business Applicatns	3
OAT 242	Desktop Publishing	4

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>	<u>Credits</u>	
BUS 101	Introduction to Business	3
BUS 275	Portfolio/Experiential Lrning	3
ENG 124	Oral Communications	3
ACC 100	Introduction to Accounting	3
or		



ACC	101	Accounting I	4
Selec	t 1 c	ourse(s) from:	
ACC	112	Accounting II	4
COM	111	Human Communications	3
MKT	212	Principles of Marketing	3
MKT	214	Advertising and Promotion	3
SOC	215	Business Ethics	3

Operations Management

Operations Management

A.A.S. Degree (W)

Combining principles of engineering and business, the Operations Management program prepares the graduate to observe measure, analyze, determine, and recommend operations improvements in industry, business, government, and health services. A broad foundation in both technical and non-technical areas provides graduates with a sound working approach to the human as well as the technological aspects of the problems they will be called upon to solve. Upon graduation, the student is prepared to aid in the design, improvement, installation, and operation of integrated systems of people, materials, and equipment.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ECO 111	Macroeconomics	3
ECO 122	Microeconomics	3
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 153	College Math and Statistics	4
or		
MAT 140	Essentials of College Algebra	4

PROGRAM/MAJOR COURSES

	Credits
Human Resource Management	3
Operations Management	4
Project Based Accounting	3
Process Analysis & Control	3
Project Management	3
Supply Chain Management	3
Statistical Process Control	3
Quality Management	4
Process Design & Layout	4
	Operations Management Project Based Accounting Process Analysis & Control Project Management Supply Chain Management Statistical Process Control Quality Management

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>		Credits
BUS 101	Introduction to Business	3
CIS 107	Intro to Computers/Application	3
MAT 255	Business Statistics I	3
MIS 220	Management Information	3
	Systems	

CIS	112	Spreadsheet/Graphics Proc	3
or			
OAT	152	Excel Level I	3

Education

Paraeducator

A.A.S. Degree (O,T,W)

This associate degree program prepares students for a career as a paraeducator in a K-12 school setting. The program provides a foundation in academic skills, child development theories, literacy and mathematics instructional support strategies and a comprehensive range of educational experiences necessary for employment. The program will provide coursework that may transfer to a senior institution for those students who wish to do so.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
HIS 112	U. S. History: Post-Civil War	3
MAT 201	Mathematics for Teachers I	4
SOC 111	Sociology	3

PROGRAM/MAJOR COURSES

ses		<u>Credits</u>
107	Intro to Computers/Application	3
111	Childhd Nutrition/Safety	3
101	Intro to Paraeducator Issues	3
120	Foundations of Literacy	3
211	Classroom Management	3
220	Parent/Family/School Interact	3
230	Children's Literature	3
250	Internship & Seminar	4
202	Mathematics for Teachers II	4
	107 111 101 120 211 220 230 250	107 Intro to Computers/Application 111 Childhd Nutrition/Safety 101 Intro to Paraeducator Issues 120 Foundations of Literacy 211 Classroom Management 220 Parent/Family/School Interact 230 Children's Literature 250 Internship & Seminar 202 Mathematics for Teachers II

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>			Credits
ECE	233	Exceptional Child	3
PSY	121	General Psychology	3
PSY	126	Child/Adolescent Development	3
BIO	140	General Biology	4
or			
BIO	150	Biology I	4
ENG	124	Oral Communications	3
or			
ENG	131	Honors Oral Communication	3

Paralegal

Paralegal

A.A.S. Degree (O,T)



According to the U.S. Bureau of Labor Statistics, the paralegal field is one of the fastest growing professions. To prepare graduates to meet this demand, this program offers a combination of specialized legal courses and general education courses with emphasis on the development of highly marketable skills. A legal internship provides work experience to supplement classroom knowledge and applications. Diversified employment opportunities are available in federal, state and local government agencies, law firms, the court system, banks, insurance companies, private business, and corporations. Upon completion of the degree, students will have gained the following competencies: 1) Explain the present and potential role of the paralegal within the legal system; 2) Produce the documents necessary for a functioning law office; 3) Comply with the profession's Code of Ethics within the legal system; 4) Use a range of research methods and information necessary to complete a variety of legal activities; 5) Apply acquired knowledge of legal specialty areas in the workplace. Paralegals may not provide legal services directly to the public except as provided by law.

CORE COURSES

<u>Courses</u>		Credits
ECO 111	Macroeconomics	3
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 153	College Math and Statistics	4
PSY 121	General Psychology	3

PROGRAM/MAJOR COURSES

Cour	<u>ses</u>		<u>Credits</u>
PLG	170	Intro to the Legal System	3
PLG	280	Legal Research & Writing	3
PLG	290	Paralegal Internship	4
Sele	ct 7 c	ourse(s) from:	
PLG	160	Family Law	3
PLG	172	Law of Simple Contracts	3
PLG	175	Estate Admin and Probate	3
PLG	270	Criminal Law/Invest Procedures	3
PLG	271	Real Property Law	3
PLG	273	Civil Procedure	3
PLG	274	Torts	3
PLG	276	Business Entities	3
PLG	285	Law Office Mgmt & Procedures	3

PROGRAM/MAJOR SUPPORT COURSES

Courses		<u>Credits</u>
BUS 275	Portfolio/Experiential Lrning	3
ENG 124	Oral Communications	3
OAT 121	Keyboarding	4
ACC 100	Introduction to Accounting	3
or		
ACC 101	Accounting I	4

Select 1 course(s) from:			
ACC	162	Computerized Accounting	3
CLT	110	Cross-Cultural Immersion	3
OAT	151	Access Level I	3
OAT	152	Excel Level I	3
OAT	157	Word Level I	3
OAT	158	Word Level II	3
OAT	159	PowerPoint	3
OAT	240	Integrated Business Applicatns	3
OAT	281	Legal Research and Writing II	3
SPA	133	Using Beginning Spanish	3
SPA	136	Spanish Communication I	4

Visual Communications

Photo Imaging

A.A.S. Degree (T)

The Photo Imaging Option of the Visual Communications program is an exciting 21st century blend of traditional photographic processes and computer-based digital photography. This new technology mixes the aesthetics of fine art photography with the speed and flexibility of digital imaging. It is an exciting field with tremendous potential for artistic as well as commercial creativity. The sophistication of imagery from the computer allows designers and photographers to expand the limits of traditional photography. Students will utilize traditional photography, scanned images, and direct digital images to prepare solutions to realistic assignments. All assignments are geared toward the compilation of a final graduate portfolio. Graduates can look forward to being on the cutting edge of this exciting new technology. As the use of the web and other multimedia formats increases, the demand for skilled digital imaging professionals will continue to rise.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
COM 111	Human Communications	3
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 150	Business Mathematics	3

PROGRAM/MAJOR COURSES

Courses			<u>Credits</u>
VSC	115	Intro To Design	3
VSC	125	Color And Composition	3
VSC	133	History of Graphic Design	2
VSC	160	Computer Graphics I	4
VSC	161	Computer Graphics II	4
VSC	165	Photography I	4
VSC	166	Photography II	3
VSC	175	Print Production Processes	2
VSC	190	Intro To Videography	3



VSC	251	Portfolio Workshop	4
VSC	267	Color Photography	4
VSC	268	Photo Illustration	3
VSC	270	Project Management	2
VSC	275	Self Promotion	2
VSC	131	Art History I	3
or			
VSC	132	Art History II	3

PROGRAM/MAJOR SUPPORT COURSES

POL 111	Introduction to Business Political Science	Credits 3 3
or PSY 121	General Psychology	3
	ourse(s) from:	3
VSC 109	Drawing I	4
VSC 135	Non-Western Art Survey	3
VSC 181	CorelDraw	4
VSC 186	Advanced Painting	3
VSC 260	Multimedia Authoring	3
VSC 261	Multimedia Sound	3
VSC 264	3-D Design and Animation	4
VSC 265	Motion Graphics	3
VSC 281	Project Elective	3
VSC 292	Video Production	4

Allied Health

Physical Therapist Assistant

A.A.S. Degree (O,W)

Physical Therapist Assistants are licensed health care workers who provide physical therapy services under the supervision and direction of the physical therapist. They assist with data collection, implement delegated patient interventions, modify interventions within the established plan of care, participate in discharge planning and follow-up care, document the care provided, and educate and interact with health care team members including families, caregivers, students and patients. Students study both on campus and at varied clinical sites. Graduates of the program may be employed by hospitals, rehabilitation centers, private practice clinics, home health agencies, and other health care settings. The Physical Therapist Assistant programs at the Wilmington Campus and the Owens Campus are accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 N. Fairfax Street, Alexandria, VA 22314-1488, (703) 706-3245, email: accreditation@apta.org; website: www.capteonline.org. Academically ready students can apply to the program following the guidelines of the Allied Health competitive admission process. Interested applicants should review the information provided here and contact their program advisor for application requirements.

CORE COURSES

<u>Courses</u>		Credits
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 153	College Math and Statistics	4
PSY 121	General Psychology	3
SOC 213	Ethical Issues in Health Care	3

PROGRAM/MAJOR COURSES

<u>Courses</u>			<u>Credits</u>
PTA	100	Introduction to PTA	2
PTA	101	Basic Techniques	4
PTA	102	Modalities	3
PTA	115	Kinesiology	3
PTA	116	Intro to Pathology	3
PTA	205	Path.Treatmnt Orthopedic	4
		Conds	
PTA	206	Path/Treat Neurolgcl Conds.	4
PTA	208	Special Topics for the PTA	3
PTA	209	PTA Management Issues	2
PTA	211	Clinical Practice I	4
PTA	212	Clinical Practice II	3
PTA	213	Clinical Practice III	4

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>			Credits
BIO	100	Medical Terminology	3
BIO	120	Anatomy and Physiology I	5
BIO	121	Anatomy and Physiology II	5
BIO	123	Clinical Functional Anatomy	3
PHY	110	Physics Physical Therapy Assnt	4
or			
PHY	171	Physics I	4
or			
PHY	205	General Physics I	4

Applied Agriculture

Production Agriculture

A.A.S. Degree (O)

The Production Agriculture option involves the growing and marketing of crops and livestock. A thorough knowledge of marketing, management, and finance as well as production skills are the keys to a career as an agriculture producer.

CORE COURSES

<u>ts</u>
3
3
3
3
3



PSY 121	General Psychology	3
SOC 111	Sociology	3
Select 1 c	ourse(s) from:	
MAT 150	Business Mathematics	3
MAT 153	College Math and Statistics	4
Select 1 c	ourse(s) from:	
BIO 150	Biology I	4
CHM 100	Basic Chemistry	3
CHM 110	General Chemistry	4

students apply their knowledge during integrated clinical experiences in area radiology departments. Academically ready students can apply to the program following the guidelines of the Allied Health competitive admission process. Interested applicants should review the information provided here and contact their program advisor for application requirements.

PROGRAM/MAJOR COURSES

<u>Courses</u>		<u>Credits</u>
AGS 101	Soil Science	3
AGS 102	Agricultural Science	3
AGS 104	Intro to Agribusiness Managemt	3
AGS 105	Prin of Plant Growth	3
AGS 106	Vegetable Crop Production	3
AGS 202	Agronomic Crops	3
AGS 204	Animal Science	3
AGS 230	Production Agriculture Co-op	3
AGS 240	Hydroponics Production	3
AGS 250	Greenhouse Crop Production	3

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>			Credits
FSY	100	Introduction to Food Science	3
POS	215	Poultry Production	3
		Management	
SCI	206	Pesticide Principles and Apps	3
SCI	223	Applied Ecology	3
Seled	ct 1 c	ourse(s) from:	
CIS	107	Intro to Computers/Application	3
OAT	152	Excel Level I	3
OAT	157	Word Level I	3

Allied Health

Radiologic Technology

A.A.S. Degree (O,W)

Radiologic Technology is the art and science of using x-rays to produce images of the organs, bones, tissues and vessels of the human body. Students in this technology are educated in utilizing x-ray equipment and techniques, proper patient positioning, radiation protection methodologies, and quality patient care. As a member of the medical imaging team, the radiologic technologist produces quality, diagnostic images that are interpreted by radiologists -- physicians who specialize in medical imaging. The programs are accredited by the Joint Review Committee on Education in Radiologic Technology (www.jrcert.org). Graduation from an accredited program in Radiologic Technology ensures eligibility to sit for the certification examination administered by the American Registry of Radiologic Technologists (ARRT). In conjunction with related and technology didactic courses,

CORE COURSES

Cour	Credits		
ENG	101	Crit Thinking & Acad Writing	3
ENG	102	Composition and Research	3
MAT	153	College Math and Statistics	4
PSY	121	General Psychology	3
SOC	213	Ethical Issues in Health Care	3

PROGRAM/MAJOR COURSES

Cour	Credits		
RAD		Intro Patient Care/Radiography	3
RAD	130	Radiographic Procedures I	4
RAD	131	Radiographic Procedures II	4
RAD	140	Prin Radiographic Imaging I	3
RAD	141	Prin Radiographic Imaging II	3
RAD	150	Radiation Protection/Biology	2
RAD	160	Clinical Radiography I	3
RAD	161	Clinical Radiography II	3
RAD	162	Clinical Radiography III	5
RAD	222	Selected Topics in Radiography	3
RAD	230	Radiographic Procedures III	3
RAD	240	Radiographic Imaging	3
		Equipment	
RAD	250	Radiographic Pathology	2
RAD	260	Clinical Radiography IV	5
RAD	261	Clinical Radiography V	5
RAD	270	Digital Image Acquistn/Display	2

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>			<u>Credits</u>
BIO	100	Medical Terminology	3
BIO	120	Anatomy and Physiology I	5
BIO	121	Anatomy and Physiology II	5
CHM	110	General Chemistry	4

Refrigeration, Heating, & Air Conditioning

Refrigeration, Heating, & Air Conditioning

A.A.S. Degree (O)

This program offers the opportunity to develop skills leading to the award of an A.A.S. Degree in Refrigeration, Heating, and Air Conditioning. The curriculum is designed to provide the student with



practical and theoretical knowledge of refrigeration, heating, and air conditioning systems. The technical courses combine classroom theory with practical, hands-on training. Related courses are intended to prepare students for professional and technical career opportunities. The degree is awarded to students who complete all required technical and related courses. Diploma and Certificate options are available.

CORE COURSES

Courses	ì	<u>Credits</u>
ECO 11	1 Macroeconomics	3
ENG 10	1 Crit Thinking & Acad Writing	3
ENG 10	2 Composition and Research	3
MAT 12	5 Math for the Trades	4
or		
MAT 15	0 Business Mathematics	3
PSY 10	0 Human Relations	3
or		
PSY 12	1 General Psychology	3

PROGRAM/MAJOR COURSES

<u>Courses</u>		<u>Credits</u>
ACR 101	HVAC Electricity	5
ACR 102	Fundamentals of Refrigeration	5
ACR 104	Residential Climate Control	5
ACR 105	Residential Heating I	5
ACR 114	EPA Seminar and Exam	1
ACR 115	Air Distribution & Balancing	3
ACR 120	Employee Development	2
	Seminar	
ACR 150	Industry Competency Exam I	1
ACR 151	Industry Competency Exam II	1
ACR 202	Commercial Refrigeration	3
ACR 204	Residential Heating II	3
	_	

PROGRAM/MAJOR SUPPORT COURSES

Cour	<u>ses</u>		Credits
AET	111	Constr Blueprint Reading	4
AET	236	Building Service Systems	3
NRG	101	Intro to Energy Management	3
NRG	110	Construction Standards	2
SOC	103	Sustainability and Society	3
CIS	107	Intro to Computers/Application	3
or			
OAT	152	Excel Level I	3

Energy

Renewable Energy Solar

A.A.S. Degree (O,T,S)

The Renewable Energy Solar Program prepares graduates to work as technicians in the renewable energy industry. Students will develop energy

analysis skills to improve energy efficiency and application of renewable energy solar systems. Students will learn solar photovoltaic installation and design and solar thermal applications. They will evaluate and recommend energy solutions with greater efficiency and lower environmental impact with the added benefit of energy cost savings. The focus on renewable energy solar will be integrated with applied practice related to solar photovoltaic and thermal installation. Students will study and work with both grid-tied and stand-alone photovoltaic systems. Academically ready students can apply to the program following the guidelines of each location's wait-list process. Interested applicants should review the information provided here and contact their program advisor for program requirements.

CORE COURSES

Courses		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 140	Essentials of College Algebra	4
SOC 103	Sustainability and Society	3
Select 1 c	ourse(s) from:	
COM 111	Human Communications	3
ECO 111	Macroeconomics	3
ECO 122	Microeconomics	3
PSY 100	Human Relations	3
PSY 121	General Psychology	3

PROGRAM/MAJOR COURSES

NRG 110	Intro to Energy Management Construction Standards Res/Light Comm Energy Analysis	Credits 3 2 2
NRG 124	Energy Efficient Methods	3
	Energy Accounting	2
NRG 154	Alternativ Energy Technologies	2
NRG 200	Solar Energy Systems	2
NRG 201	Photovoltaic Systems I	4
NRG 202	Photovoltaic Systems II	3
NRG 203	Cncpts of Solar Thermal Design	3
NRG 204	Coop Ed:Renewable Energy Solar	3
NRG 207	NABCEP Solar Entry Level Prep	1
	Energy Investment Analysis	2

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>		<u>Credits</u>
ACR 121	HVAC Energy Systems	3
ELC 125	Electrical Circuits I	4
OAT 152	Excel Level I	3
PHY 111	Conceptual Physics	4
AET 111	Constr Blueprint Reading	4
or		



AET 123 Arch Drafting/Design I

4

Allied Health

Respiratory Care

A.A.S. Degree (O,W)

Respiratory Care is an allied health specialty involved in the treatment, management, and diagnostic evaluation of patients with problems of the cardiopulmonary system. Respiratory Care is one of the most dynamic allied health fields, undergoing a continuous process of discovery and improvement in both therapeutic techniques and related modes of mechanical assistance. The Wilmington and Owens Campus programs are accredited by the Commission on Accreditation for Respiratory Care (CoARC), 1248 Harwood Road, Bedford, TX 76021-4244, (817) 283-2835, and prepare students for the National Board for Respiratory Care (NBRC) Entry Level and Advanced Practice Examinations. Courses are offered on campus and at a variety of clinical affiliates. Academically ready students can apply to the program following the guidelines of the Allied Health competitive admission process. Interested applicants should review the information provided here and contact their program advisor for application requirements.

CORE COURSES

Courses		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 153	College Math and Statistics	4
PSY 121	General Psychology	3
SOC 213	Ethical Issues in Health Care	3

PROGRAM/MAJOR COURSES

<u>Courses</u>		Credits
RCT 120	Pharm for Respiratory Care	3
RCT 130	Intro to Respiratory Care	7
RCT 140	Pulmonary Physiology	3
RCT 210	Neonatal/Ped Respiratory Care	3
RCT 231	Respiratory Care Procedures I	4
RCT 232	Respiratory Care Procedures II	7
RCT 233	Spec Topics in Respratory Care	4
RCT 241	Pulmonary Pathophysiology I	3
RCT 242	Pulmonary Pathophysiology II	4
RCT 243	Pulmonary Function Studies	2
RCT 251	Clinical Respiratory Care I	2
RCT 252	Clinical Respiratory Care II	3
RCT 253	Clinical Respiratory Care III	5

PROGRAM/MAJOR SUPPORT COURSES

Courses 4 1	<u>Credits</u>	
BIO 120	Anatomy and Physiology I	5
BIO 121	Anatomy and Physiology II	5
CHM 110	General Chemistry	4
HLH 101	Intro To Patient Care	2
HLH 215	Cardiovascular Monitoring	2

Allied Health

Surgical Technology

A.A.S. Degree (T)

The Surgical Technology program will help to meet the employment demands for highly skilled surgical technologists. The program will provide students with the knowledge and skills required to function effectively in the environment of the operating room. The scrub surgical technologist handles the instruments, supplies, and equipment necessary during the surgical procedure. He/she has an understanding of the procedure being performed and anticipates the needs of the surgeon. He/she has the necessary knowledge and ability to ensure quality patient care during the operative procedure and is constantly on vigil for maintenance of the sterile field. The surgical technologist circulating obtains additional instruments, supplies, and equipment necessary while the surgical procedure is in progress. He/she monitors conditions in the operating room and constantly assesses the needs of the patient and surgical team. The Surgical Technology program is accredited by the Commission on Accreditation of Allied Health Education Programs upon the recommendation of Committee on American College of Surgeons and Association of Surgical Technologists (ARC/STSA); 1361 Park Street; Clearwater, FL 33756; 727-210-2350; www.caahep.org. Academically ready students can apply to the program following the guidelines of the Allied Health competitive admission process. Interested applicants should review the information provided here and contact their program advisor for application requirements.

CORE COURSES

Cours	ses		Credits
ENG	101	Crit Thinking & Acad Writing	3
ENG	102	Composition and Research	3
PSY	121	General Psychology	3
MAT	130	Algebra for Allied Health	4
or			
MAT	129	Math for Health Sciences	3
or			
MAT	140	Essentials of College Algebra	4
SOC	111	Sociology	3
or			
SOC	213	Ethical Issues in Health Care	3



PROGRAM/MAJOR COURSES

<u>Courses</u>	<u>Credits</u>	
SGT 100	Intro to Surgical Technology	2
SGT 200	Surgical Technology I	7
SGT 202	Pharmacology	2
SGT 210	Surgical Technology II	7
SGT 211	Surgical Tech Clinical I	2
SGT 220	Surgical Technology III	4
SGT 221	Surgical Technology Clinical II	5

PROGRAM/MAJOR SUPPORT COURSES

Courses			Credits
BIO	100	Medical Terminology	3
BIO	120	Anatomy and Physiology I	5
BIO	121	Anatomy and Physiology II	5
BIO	125	Introductory Microbiology	4
CIS	107	Intro to Computers/Application	3
CHM	100	Basic Chemistry	3
or			
CHM	110	General Chemistry	4

Civil Engineering Technology

Surveying and Geomatics Engineering Technology

A.A.S. Degree (O,S)

This program option will prepare graduates with the technical skills necessary to enter careers in boundary and/or land surveying, geographic and/or land information systems, engineering project surveying, mapping and geodesy, or other related areas. This curriculum Option emphasizes practical applications in the areas of field mapping, interpretation of basic land records and the preparation of maps and plats. Students will learn on modern surveying equipment including total stations, static and kinematic GPS. The use of computers for CAD, data acquisition and analysis is integrated throughout the program preparing graduates for immediate productivity in the profession.

The State of Delaware recognizes the Civil Engineering Technology, Surveying and Geomatics Option as part of the pathway to licensure as a professional land surveyor.

CORE COURSES

<u>Courses</u>	<u>Credits</u>	
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 181	Algebra and Trigonometry I	4
or		
MAT 281	Calculus I	4
Select 2 c		

CLT	110	Cross-Cultural Immersion	3
ECO	111	Macroeconomics	3
ECO	122	Microeconomics	3
HIS	111	U. S. History: Pre-Civil War	3
HIS	112	U. S. History: Post-Civil War	3
POL	111	Political Science	3
		General Psychology	3
SOC	111	Sociology	3

PROGRAM/MAJOR COURSES

Cour	<u>ses</u>		<u>Credits</u>
CET	125	Civil & Envl Drafting & Design	4
CET	135	Engineering Materials	3
CET	144	Surveying Principles	4
CET	225	Civil CAD Applications	3
CET	236	Soils	3
CET	240	Hydraulics and Hydrology	4
CET	244	Principles of Site Development	4
CET	245	Advanced Surveying Principles	4
CET	247	Route Surveying and Design	3
CET	248	Boundary Surveying and Law	3

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>	<u>Credits</u>	
AET 232	Contracts/Specifications	3
CMT 234	Cost Estimating/Planning	3
EDD 171	Intro to CAD Using AutoCAD	3
PHY 205	General Physics I	4
or		
PHY 281	Physics I with Calculus	4
MAT 182	Algebra and Trigonometry II	4
or		
MAT 185	Precalculus	4
or		
MAT 282	Calculus II	4

Applied Agriculture

Turf Management

A.A.S. Degree (O)

The Turf Management Degree program is designed to provide skills necessary for an individual to attain gainful employment in the turf management industry. The curriculum provides course study for the field of golf course management and professional turf management specialist. The curriculum will prepare the students for careers as golf and turf management technicians, assistant golf course superintendents, assistant equipment managers, horticulturist, irrigation specialist chemical technician, equipment operator and groundskeeper.

Note: Students will be required to take certain course at the Owens Campus Turf Grass Lab



CORE COURSES

Courses		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 125	Math for the Trades	4
or		
MAT 150	Business Mathematics	3
Select 2 c	ourse(s) from:	
POL 111	Political Science	3
PSY 100	Human Relations	3
PSY 121	General Psychology	3
SOC 111	Sociology	3

PROGRAM/MAJOR COURSES

Cour	ses		<u>Credits</u>
AGS	101	Soil Science	3
AGS	104	Intro to Agribusiness Managemt	3
AGS	105	Prin of Plant Growth	3
AGS	123	Trfgrss Maintenance Practices	3
AGS	136	Turf Equipment Operations	3
AGS	224	Turf & Athletic Fld Maintenanc	3
AGS	231	Turfgrss Mgt. Co-op Education	3
AGS	241	Trfgrss Wds Insts/Disease Ctrl	3
AGS	242	Golf Course Operation & Maint	3
AGS	243	Golf & Turf Irrigation	3
AGS	244	Landscape Plans &	3
		Construction	

PROGRAM/MAJOR SUPPORT COURSES

Courses			<u>Credits</u>
CIS	107	Intro to Computers/Application	3
OAT	157	Word Level I	3
SCI	223	Applied Ecology	3
SCI	240	Turfgrass Physiology	3
CHM	100	Basic Chemistry	3
or			
CHM	110	General Chemistry	4

Allied Health

Veterinary Technology

A.A.S. Degree (O)

The Veterinary Technology Associate Degree program provides students with the theoretical and technical skills essential for a wide-range of career options in animal health and management. The curriculum is designed to prepare students for careers as veterinary technicians and for positions in animal hospitals, diagnostic laboratories, research laboratories, animal health industry, zoological parks, and emergency/specialty clinics. The program focuses on the development of laboratory testing techniques, clinical assisting procedures, humane animal care and nursing skills, and hospital management practices. In addition to course work and laboratory experience, students are required to

complete one supervised externship at a variety of animal care facilities. Academically ready students can apply to the program following the guidelines of the Allied Health competitive admission process. Interested applicants should review the information provided here and contact their program advisor for application requirements.

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CORE COURSES

Courses

Courses		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 153	College Math and Statistics	4
Select 2 c	ourse(s) from:	
ECO 111	Macroeconomics	3
ECO 122	Microeconomics	3
HIS 111	U. S. History: Pre-Civil War	3
PSY 100	Human Relations	3
PSY 121	General Psychology	3
PSY 127	Human Development	3
PSY 223	Abnormal Psychology	3
SOC 111	Sociology	3
SOC 213	Ethical Issues in Health Care	3

PROGRAM/MAJOR COURSES

<u>Courses</u>	<u>Credits</u>	
VET 101	Intro to Veterinary Technology	2
VET 102	Veterinary Anatomy	3
VET 110	Veterinary Physiology	3
VET 120	Breeds And Behavior	2
VET 140	Pharmacology for Vet Techs	3
VET 145	Exotic Animal Care and Mgmt	1
VET 205	Small Animal Health & Disease	3
VET 210	Veterinary Clinical Pathology	3
VET 221	Veterinary Nursing I	3
VET 222	Veterinary Nursing II	3
VET 224	Lg Animal/Equine Nurs/Hlth Mgt	4
VET 230	Research Animal Technology	3
VET 235	Diagnostic Imaging	3
VET 250	Vet Tech Internship	5

PROGRAM/MAJOR SUPPORT COURSES

Cour	Credits		
MLT	130	Hematology for the Vet Tech	4
BIO	125	Introductory Microbiology	4
or			
BIO	250	Principles of Microbiology	4
BIO	150	Biology I	4
or			
BIO	140	General Biology	4
CHM	110	General Chemistry	4
or			
CHM	100	Basic Chemistry	3

Web Information Systems

Web Development



A.A.S. Degree (O,T)

The Computer Information Systems department offers the Web Development degree that provides students with a program of instruction in the development, implementation and management of electronic business operations provided online. This program is designed to provide students with a background in the computer applications needed to assist a company wishing to conduct business using the Internet and the World Wide Web. The students acquire knowledge of basic programming, Web construction, interactive Web sites and Internet scripts. Students will be prepared to: create safe and secure networks for businesses having an online presence, to become Web masters capable of building Web sites, and to become technology strategists able to maximize visits to client's sites.

CORE COURSES

Courses		<u>Credits</u>
ECO 111	Macroeconomics	3
ECO 122	Microeconomics	3
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 153	College Math and Statistics	4

PROGRAM/MAJOR COURSES

<u>Courses</u>			Credits
CIS	141	Operating Systems I	3
CIS	160	Internet/Web Construction	3
CIS	170	Internet/Web Multimedia	3
CIS	194	Networking Technologies	3
CIS	201	Microdatabase Programming	3
CIS	207	Visual Programming	4
CIS	238	Database Design &	4
		Programming	
CIS	240	Systems Analysis & Design	3
CIS	260	Internet/Web Commerce	4
CIS	282	Topics in Programming	4
		Language	

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>		Credits
BUS 101	Introduction to Business	3
CIS 120	Intro to Programming	4
EBZ 220	Fundamentals of E-Commerce	3
ISY 111	Ethics & the Information Age	2
MKT 212	Principles of Marketing	3

Associate of Arts in Teaching Degree Programs (A.A.T.)

CAMPUS KEY: T = Dover; O = Georgetown; S = Stanton; W = Wilmington

<u>Program</u>	<u>Campus</u>
Early Care and Education (Birth to Second Grade)	O,T,W
Elementary Education	O,T,W



Math Secondary Education	T,S
Middle-Level Mathematics Education: English Minor	O,W
Middle-Level Mathematics Education: Science Minor	O,W
Middle-Level Mathematics Education: Social Science Minor	O,W
Science Education: Chemistry/Physics	O,T,S



Early Childhood Education

Early Care and Education (Birth to Second Grade)

A.A.T. Degree (O,T,W)

The Birth to Second Grade Option combines the Early Childhood Development curriculum with a student transfer focus. The program prepares students for transfer to a four-year in-state institutions to complete requirements for a bachelor's degree and early care/education (Birth to Second Grade). The Birth to Second Grade Option is approved by the Department of Education as the first half of an associate/bachelor's preparation for a Birth to Second Grade teaching certification. This program offers full articulation with several four-year institutions. Students participate in laboratory hours in public and private school systems. This curriculum option offers students the opportunity to work toward a four-year degree while preparing for the various positions in the field of early childhood.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 201	Mathematics for Teachers I	4
PSY 121	General Psychology	3
PSY 125	Child Development	3

PROGRAM/MAJOR COURSES

<u>Courses</u>		<u>Credits</u>
ECE 120	Comtemp Issues in Erly Childhd	3
ECE 121	Infant & Toddler Methods & Lab	5
ECE 123	Early Childhd Methods I & Lab	5
ECE 125	Early Childhd Methods II & Lab	5
ECE 127	Childhood Classroom Mgt	3
ECE 226	Assessment of Young Children	3
ECE 233	Exceptional Child	3
EDC 120	Foundations of Literacy	3
EDC 220	Parent/Family/School Interact	3
EDC 230	Children's Literature	3

PROGRAM/MAJOR SUPPORT COURSES

Cour	ses		<u>Credits</u>
CIS	107	Intro to Computers/Application	3
ECE	111	Childhd Nutrition/Safety	3
HIS	111	U. S. History: Pre-Civil War	3
MAT	202	Mathematics for Teachers II	4
MAT	203	Math for Teachers III	4
BIO	140	General Biology	4
or			
BIO	150	Biology I	4

Education

Elementary Education

A.A.T. Degree (O,T,W)

Graduates of this option may enter the workforce immediately as a paraeducator in a school setting or they may choose to continue their education. The main focus of this education option is to prepare students to transfer to a four-year college or university where they will complete their bachelor's degree and become certified to teach elementary school. The program provides a foundation in academic skills, child development theory, literacy and mathematics and classroom management strategies. During the required education courses in this option, students are exposed to the teaching profession through a variety of field experiences.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 201	Mathematics for Teachers I	4
PSY 121	General Psychology	3
PSY 125	Child Development	3
or		
PSY 126	Child/Adolescent Development	3
HIS 111	U. S. History: Pre-Civil War	3
or		
HIS 112	U. S. History: Post-Civil War	3

PROGRAM/MAJOR COURSES

Courses		Credits
CHM 101	Introduction to Chemistry	1
CIS 107	Intro to Computers/Application	3
ECE 233	Exceptional Child	3
EDC 120	Foundations of Literacy	3
EDC 150	Issues in Elementary Education	3
EDC 211	Classroom Management	3
EDC 220	Parent/Family/School Interact	3
EDC 230	Children's Literature	3
MAT 202	Mathematics for Teachers II	4
MAT 203	Math for Teachers III	4

PROGRAM/MAJOR SUPPORT COURSES

Cour	ses		Credits
BIO	140	General Biology	4
PHY	111	Conceptual Physics	4
SPA	136	Spanish Communication I	4
ENG	124	Oral Communications	3
or			
ENG	131	Honors Oral Communication	3
VSC	131	Art History I	3
or			
VSC	132	Art History II	3



SPA 137 Spanish Communication II 4 or ECO 111 Macroeconomics 3

Education

Math Secondary Education

A.A.T. Degree (T,S)

This associate degree program will prepare students for transfer to a baccalaureate degree program that leads to a teaching career in middle or high school mathematics. The program includes rigorous mathematics content course work, as well as the integration of educational technology and field experiences in a secondary school setting.

Graduates of this program who have completed the associate degree with a cumulative GPA of 2.5 or higher can transfer to the University of Delaware or Delaware State University.

CORE COURSES

<u>Courses</u>		Credits
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 281	Calculus I	4
PSY 121	General Psychology	3
HIS 111	U. S. History: Pre-Civil War	3
or		
HIS 112	U. S. History: Post-Civil War	3

PROGRAM/MAJOR COURSES

Cours	ses		Credits
ECE	233	Exceptional Child	3
EDC	260	Educational Psychology	3
MAT	263	Principles of Discrete Math	4
MAT	279	Problem Solving Strategies	4
MAT	282	Calculus II	4
MAT	283	Calculus III	4
MAT	285	Introduction to Proof	4
MAT	288	Linear Algebra	4

PROGRAM/MAJOR SUPPORT COURSES

Cour	ses		<u>Credits</u>
CIS	120	Intro to Programming	4
PHY	281	Physics I with Calculus	4
PSY	127	Human Development	3
SPA	136	Spanish Communication I	4

Education

Middle-Level Mathematics Education: English Minor

A.A.T. Degree (O,W)

The main focus of the Middle-Level Mathematics Education program is to provide students with a strong mathematical background that emphasizes the conceptual underpinnings of the mathematics the students will eventually teach. In order to enter the workforce, students will be required to complete a bachelor's degree with a partner university.

Students pursuing the Middle- Level Mathematics Education degree will major in mathematics and choose one of three minors: Science, Social Science or English. The minors enable students to become dually certified in mathematics and their minor field. The major/minor structure for middle school education is the focus of our partner, Wilmington University, and the course sequence sheets were designed to support and guide students based on their desired minor preference.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ECO 111	Macroeconomics	3
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 201	Mathematics for Teachers I	4
PSY 121	General Psychology	3

PROGRAM/MAJOR COURSES

<u>Courses</u>		<u>Credits</u>
ECE 233	Exceptional Child	3
MAT 140	Essentials of College Algebra	4
MAT 143	College Geometry	3
MAT 185	Precalculus	4
MAT 251	Finite Math	3
MAT 253	Discrete Math	3
MAT 255	Business Statistics I	3
MAT 281	Calculus I	4
MAT 282	Calculus II	4

PROGRAM/MAJOR SUPPORT COURSES

<u>Cour</u>	<u>ses</u>		<u>Credits</u>
BIO	140	General Biology	4
CIS	107	Intro to Computers/Application	3
EDC	120	Foundations of Literacy	3
EDC	220	Parent/Family/School Interact	3
EDC	230	Children's Literature	3
PSY	125	Child Development	3
ENG	124	Oral Communications	3
or			
ENG	131	Honors Oral Communication	3

Education

Middle-Level Mathematics Education:



Science Minor

A.A.T. Degree (O,W)

The main focus of the Middle-Level Mathematics Education program is to provide students with a strong mathematical background that emphasizes the conceptual underpinnings of the mathematics the students will eventually teach. In order to enter the workforce, students will be required to complete a bachelor's degree with a partner university.

Students pursuing the Middle- Level Mathematics Education degree will major in mathematics and choose one of three minors: Science, Social Science or English. The minors enable students to become dually certified in mathematics and their minor field. The major/minor structure for middle school education is the focus of our partner, Wilmington University, and the course sequence sheets were designed to support and guide students based on their desired minor preference.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ECO 111	Macroeconomics	3
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 201	Mathematics for Teachers I	4
PSY 121	General Psychology	3

PROGRAM/MAJOR COURSES

<u>Courses</u>		<u>Credits</u>
ECE 233	Exceptional Child	3
MAT 140	Essentials of College Algebra	4
MAT 143	College Geometry	3
MAT 185	Precalculus	4
MAT 251	Finite Math	3
MAT 253	Discrete Math	3
MAT 255	Business Statistics I	3
MAT 281	Calculus I	4
MAT 282	Calculus II	4

PROGRAM/MAJOR SUPPORT COURSES

Cour	ses		Credits
BIO	140	General Biology	4
CIS	107	Intro to Computers/Application	3
EDC	220	Parent/Family/School Interact	3
PHY	205	General Physics I	4
PSY	125	Child Development	3
ENG	124	Oral Communications	3
or			
ENG	131	Honors Oral Communication	3

Education

Middle-Level Mathematics Education:

Social Science Minor

A.A.T. Degree (O,W)

The main focus of the Middle-Level Mathematics Education program is to provide students with a strong mathematical background that emphasizes the conceptual underpinnings of the mathematics the students will eventually teach. In order to enter the workforce, students will be required to complete a bachelor's degree with a partner university.

Students pursuing the Middle- Level Mathematics Education degree will major in mathematics and choose one of three minors: Science, Social Science or English. The minors enable students to become dually certified in mathematics and their minor field. The major/minor structure for middle school education is the focus of our partner, Wilmington University, and the course sequence sheets were designed to support and guide students based on their desired minor preference.

CORE COURSES

<u>Courses</u>		Credits
ECO 111	Macroeconomics	3
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 201	Mathematics for Teachers I	4
PSY 121	General Psychology	3

PROGRAM/MAJOR COURSES

Courses		<u>Credits</u>
ECE 233	Exceptional Child	3
MAT 140	Essentials of College Algebra	4
MAT 143	College Geometry	3
MAT 185	Precalculus	4
MAT 251	Finite Math	3
MAT 253	Discrete Math	3
MAT 255	Business Statistics I	3
MAT 281	Calculus I	4
MAT 282	Calculus II	4

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>		Credits
BIO 140	General Biology	4
CIS 107	Intro to Computers/Application	3
EDC 220	Parent/Family/School Interact	3
POL 111	Political Science	3
PSY 125	Child Development	3
SOC 111	Sociology	3
ENG 124	Oral Communications	3
or		
ENG 131	Honors Oral Communication	3

Education



Science Education: Chemistry/Physics

A.A.T. Degree (O,T,S)

The new Science Education Program will utilize the resources of Delaware Tech's programs and faculty in the Mathematics, Education, Science, English and Social Science departments. Technology is infused within each of the general education areas, so a separate computer technology course will not be part of the course sequence. The major electives and physics course selections allow students to complete courses that articulate to a physics or chemistry bachelor degree program.

CORE COURSES

	<u>Credits</u>
. Crit Thinking & Acad Writing	3
Composition and Research	3
. Calculus I	4
. General Psychology	3
. U. S. History: Pre-Civil War	3
U. S. History: Post-Civil War	3
	Crit Thinking & Acad Writing Composition and Research Calculus I General Psychology U. S. History: Pre-Civil War

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PROGRAM/MAJOR COURSES

Cour	ses		Credits
CHM	150	Chemical Principles I	5
CHM	151	Chemical Principles II	5
EDC	115	Nature of Science	1
EDC	260	Educational Psychology	3
MAT	283	Calculus III	4
and			
MAT	291	Ordinary Differential Equation	4
or			
BIO	150	Biology I	4
and			
CHM	240	Organic Chemistry I	4
PHY	205	General Physics I	4
and			
PHY	206	General Physics II	4
or			
PHY	281	Physics I with Calculus	4
and			
PHY	282	Physics II with Calculus	4

PROGRAM/MAJOR SUPPORT COURSES

Courses		<u>Credits</u>
EDC 100	Professional Prep: Praxis I	1
MAT 282	Calculus II	4
PSY 127	Human Development	3
SPA 136	Spanish Communication I	4
Select 1 c	ourse(s) from:	
ECO 111	Macroeconomics	3
	Microeconomics	3
ENG 124	Oral Communications	3
SOC 111	Sociology	3



Diploma Programs

CAMPUS KEY: T = Dover; O = Georgetown; S = Stanton; W = Wilmington

<u>Program</u>	<u>Campus</u>
Automotive Technician Studies	O,S
Baking and Pastry Skills Studies	S,T
Chemical Process Operator Studies	S
Commercial Transportation Studies	0
Early Childhood Studies	O,T,W
Kitchen Skills Studies	S
Laser & Optics Studies	S
Medical Coding Studies	W
Practical Nursing Studies	O,T
Refrigeration, Heating, & Air Conditioning Studies	0



Automotive Technology

Automotive Technician Studies

Diploma (O,S)

The diploma in Automotive Technician Studies provides the student with a foundation of mechanical skills needed in the automotive industry. The program provides a combination of classroom and shop instruction. Upon completion of the diploma requirements, students who desire to continue their education may transfer these courses into the Automotive Technology Degree program. Academically ready students can apply to the program following the guidelines of each location's wait-list process. Interested applicants should review the information provided here and contact their program advisor for program requirements.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
MAT 120	Math for Behavioral Sciences	3
PSY 100	Human Relations	3

PROGRAM/MAJOR COURSES

<u>Courses</u>	<u>Credits</u>	
AUT 114	Intro to Automotive Technology	3
AUT 116	Automotive Electrical	5
AUT 118	Auto Steering & Suspension	3
AUT 119	Automotive Brake Systems	3
AUT 122	Auto Air Conditioning/Heating	3
AUT 123	Work Experience I	3

PROGRAM/MAJOR SUPPORT COURSES

Courses		Credits	
CIS 1	L07	Intro to Computers/Application	3
ENT 1	L01	Intro to Entrepreneurship	3
or			
BUS 1	L01	Introduction to Business	3

Culinary Arts

Baking and Pastry Skills Studies

Diploma (S,T)

This program is designed specifically for industry professionals and students that are employed or plan to be employed in the hospitality industry as a pastry cook and desire to further their education and begin the advancement to a supervisory position. Courses are offered on a part-time basis and credits earned my be applied to the Associate Degree in the Culinary Arts or Food Service Management. Industry professionals and students will also acquire the

three mandatory classes required by the American Culinary federation to begin the certification process.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
COM 111	Human Communications	3
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 120	Math for Behavioral Sciences	3

PROGRAM/MAJOR COURSES

<u>Courses</u>			<u>Credits</u>
CUL	112	Cake Decorating	2
CUL	119	Food Safety and Sanitation	2
CUL	121	Food Prep I	4
CUL	261	Baking	4
CUL	262	Pastry	4

PROGRAM/MAJOR SUPPORT COURSES

Courses			<u>Credits</u>
HRI	212	Food/Beverage Cost Control	3
MGT	148	Culinary Supervisory	3
		Develpmnt	
SCI	141	Nutrition in the Culinary Fld	2

Chemical Process Operator

Chemical Process Operator Studies

Diploma (S)

The Chemical Process Operator Studies diploma program prepares students for employment in industrial plants in the chemical, petroleum, polymer and pharmaceutical industries. The chemical industry has a great need for trained chemical operators to adjust and optimize conditions for the production of large quantities of products in local chemical plants and pilot plants. Graduates are readily employed by these local plants at competitive salaries. The program provides a practical education in various aspects of plant operations such as hands-on training in process operations and control, regulatory compliance, and preventive maintenance skills. Laboratory facilities include not only standard lab equipment, but also modern instrumentation in pilot plant technology and computer simulations.

CORE COURSES

<u>Courses</u>	<u>Credits</u>		
ENG 101 Crit Thinking & Acad Writing	3		
MAT 140 Essentials of College Algebra	4		
Select 1 course(s) from:			



111	Macroeconomics	3
111	Political Science	3
121	General Psychology	3
111	Sociology	3
	111 121	111 Macroeconomics111 Political Science121 General Psychology111 Sociology

PROGRAM/MAJOR COURSES

Courses			<u>Credits</u>
CPO	106	Statistical Procs Cntrl Ovrvw	1
CPO	125	Safety, Health & Environment	3
CPO	135	Chem Proc Tech-Equipment	3
CPO	151	Chem Proc Tech I-Systems	4
CPO	252	Chem Proc Tech II-Operations	4

PROGRAM/MAJOR SUPPORT COURSES

Cours	ses		<u>Credits</u>
CHM	110	General Chemistry	4
CIS	107	Intro to Computers/Application	3
ELC	101	Intro to Instrumentation	3

Automotive Technology

Commercial Transportation Studies

Diploma (O)

The curriculum is designed to provide the student with operating skills and practical knowledge of tractor trailer driving with emphasis on business skills needed in the transportation industry. It will prepare the student for entry-level employment as a CDL "A" licensed commercial vehicle driver/operator. Students spend their day in a combination of classroom, range practice, and road training in order to develop safe skills of operation and mechanical familiarization of the equipment. Employment opportunities can be found in either local or long-distance areas of the transportation industry.

CORE COURSES

Courses			<u>Credits</u>
ENG 1	.01	Crit Thinking & Acad Writing	3
MAT 1	.50	Business Mathematics	3
PSY 1	.00	Human Relations	3

PROGRAM/MAJOR COURSES

<u>Courses</u>			Credits
CTS	101	Fundmentals-Motor Fleet	3
		Safety	
CTS	102	Vehicle Sys/Report Malfunction	2
CTS	103	Tractor Trailer Operations	2
CTS	104	Road Driving Practices	1
CTS	105	Range Driving Practices	2
CTS	106	Advanced Driving Operations	2
CTS	107	Advanced Driving Practices	1
CTS	108	Professional Driver Developmnt	3

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>			<u>Credits</u>
CIS	107	Intro to Computers/Application	3
Sele	ct 1 c	ourse(s) from:	
BUS	101	Introduction to Business	3
ECO	111	Macroeconomics	3
ENT	101	Intro to Entrepreneurship	3

Early Childhood Education

Early Childhood Studies

Diploma (O,T,W)

The Early Childhood Studies program is an intensive study of the child from birth to eight years. This program prepares the student to work under the supervision of qualified teachers with pre-school children in a day care center, nursery school, or child development center. This program is designed for those currently employed in the child care field or for those considering the Associate Degree Program in Early Childhood Education. Credits earned in this program may be applied toward an Associate Degree in Early Childhood Education.

CORE COURSES

Courses	<u>Credits</u>	
ENG 101	Crit Thinking & Acad Writing	3
MAT 150	Business Mathematics	3
PSY 125	Child Development	3

PROGRAM/MAJOR COURSES

<u>Courses</u>	<u>Credits</u>	
ECE 111	Childhd Nutrition/Safety	3
ECE 120	Comtemp Issues in Erly Childhd	3
ECE 121	Infant & Toddler Methods & Lab	5
ECE 123	Early Childhd Methods I & Lab	5
ECE 125	Early Childhd Methods II & Lab	5
ECE 127	Childhood Classroom Mgt	3

PROGRAM/MAJOR SUPPORT COURSES

Courses			<u>Credits</u>
CIS	107	Intro to Computers/Application	3

Culinary Arts

Kitchen Skills Studies

Diploma (S)

This program is designed specifically for industry professionals and students who are employed or plan to be employed in the hospitality industry as cooks and desire to further their education and begin the advancement to a supervisory position.



Courses are offered on a part-time basis and credits earned may be applied to the Associate Degree in the Culinary Arts or Food Service Management. Industry professionals and students will also acquire the three mandatory classes required by the American Culinary Federation to begin the certification process.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
COM 111	Human Communications	3
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 120	Math for Behavioral Sciences	3

PROGRAM/MAJOR COURSES

Courses			<u>Credits</u>
CUL	119	Food Safety and Sanitation	2
CUL	121	Food Prep I	4
CUL	171	Garde Manger	4
FSM	210	Quantity Food Production	3

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>			<u>Credits</u>
HRI	212	Food/Beverage Cost Control	3
MGT	148	Culinary Supervisory	3
		Develpmnt	
SCI	141	Nutrition in the Culinary Fld	2

Specialized Occupations

Laser & Optics Studies

Diploma (S)

The Laser & Optics Studies Diploma Program is designed to offer students of any degree program the opportunity to study lasers and optics beyond the Physics II level. Lasers are pervasive in many fields of technology. The theoretical as well as hands-on experience students receive will serve as a solid foundation in the basics necessary to keep up with the advances in laser and optics technology. Further information can be obtained by contacting the Chairperson of the Mathematics/Physics Department.

CORE COURSES

<u>Courses</u>	<u>Credits</u>	
ENG 101	Crit Thinking & Acad Writing	3
PSY 121	General Psychology	3
MAT 181	Algebra and Trigonometry I	4
or		
MAT 281	Calculus I	4

PROGRAM/MAJOR COURSES

<u>Courses</u>			<u>Credits</u>
LAS	271	Intro to Lasers	4
LAS	272	Geometrical Optics & Lasers	4
LAS	273	Wave Optics & Lasers	4
PHY	205	General Physics I	4
or			
PHY	281	Physics I with Calculus	4

PROGRAM/MAJOR SUPPORT COURSES

Cour	ses		Credits
MAT	182	Algebra and Trigonometry II	4
or			
MAT	282	Calculus II	4
PHY	206	General Physics II	4
or			
PHY	282	Physics II with Calculus	4

Allied Health

Medical Coding Studies

Diploma (W)

The Medical Coding Studies is a diploma program that prepares graduates for careers as Medical Coders. A Medical Coder manages and classifies medical data for patient billing using standardized codes. Students learn how to correctly assign codes that indicate patient diagnosis, treatment and outcomes in order to properly document patient care and permit data access, analysis and billing. The program provides didactic courses followed by an internship experience in an approved facility. Graduates of the program find employment in a variety of settings, including hospitals, long-term care centers, mental health facilities, federal, state and local health departments, and insurance companies. Academically ready students can apply to the program following the guidelines of the Allied Health competitive admission process. Interested applicants should review the information provided here and contact their program advisor for application requirements.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
SOC 213	Ethical Issues in Health Care	3
Select 1 c	ourse(s) from:	
MAT 120	Math for Behavioral Sciences	3
MAT 135	Biomedical Statistics	3
MAT 140	Essentials of College Algebra	4
MAT 153	College Math and Statistics	4
MAT 181	Algebra and Trigonometry I	4

PROGRAM/MAJOR COURSES



Courses			Credits
HIM	120	ICD Coding I	4
HIM	121	ICD Coding II	4
HIM	122	CPT Coding	4
HIT	100	Intro to Health Information	3
HIT	170	Medical Coding Practicum	2

PROGRAM/MAJOR SUPPORT COURSES

Courses			Credits
BIO	100	Medical Terminology	3
BIO	108	Basic Pharmacology	2
BIO	120	Anatomy and Physiology I	5
BIO	121	Anatomy and Physiology II	5
BIO	130	Disease Proc/Pathophysiology	3
CIS	107	Intro to Computers/Application	3

Allied Health

Practical Nursing Studies

Diploma (O,T)

The Practical Nursing Programs at the Owens and Terry Campuses provide the means by which individuals acquire the knowledge and skills necessary to function in a variety of health care settings at the direction of the registered nurse, physician, or dentist. Courses are designed to include theory and practical application which enables the graduate to provide competent patient care. Licensed Practical Nurses may be employed in a variety of health care settings including acute care hospitals, long-term care facilities, doctor's offices, and public health. Admission to the Practical Nursing Program requires that individuals submit official documentation of high school graduation or equivalent, in addition to the completion of all college admission requirements. Prior to admission to the clinical portion of the program, all students must complete the NLN Pre-Admission Examination-PN. In order to receive a license to practice, the graduate practical nurse must pass the National Council of State Boards of Nursing Examination for Practical Nurses. Licensed Practical Nurses may apply for admission to Associate Degree Nursing programs. Advanced placement will be dependent upon meeting requirements. The legal requirements for licensure in the State of Delaware are outlined in the Nursing Department Admissions Handbook. A criminal background check and drug screen is required for all students. Transfer students must follow the transfer policy of Delaware Technical Community College. The Practical Nursing Programs at both campus locations are approved by the Delaware Board of Nursing and the Terry Campus program is also accredited by the Accreditation Commission for Education in Nursing (ACEN). Information about the program is available from the Accreditation Commission for Education in Nursing, 3342 Peachtree Road NE, Suite 850, Atlanta, Georgia 30326;(404) 975-5000; www.nlnac.org Academically ready students can apply to the program following the guidelines of the Allied Health competitive admission process. Interested applicants should review the information provided here and contact their program advisor for application requirements.

CORE COURSES

<u>Courses</u>	<u>Credits</u>	
ENG 101	Crit Thinking & Acad Writing	3
ENG 102	Composition and Research	3
MAT 129	Math for Health Sciences	3
PSY 127	Human Development	3

PROGRAM/MAJOR COURSES

<u>Courses</u>	<u>Credits</u>	
NUR 131	Fundamentals of Nursing	4
NUR 132	Medical-Surgical Nursing I	6
NUR 133	Medical-Surgical Nursing II	6
NUR 134	Essentials-Mental Hlth Nursing	2
NUR 135	Essents Maternal/Chld Nursing	4
NUR 137	Essentials Legal-Ethicl Issues	1

PROGRAM/MAJOR SUPPORT COURSES

Cour	ses		<u>Credits</u>
BIO	110	Essentls-Anatomy & Physiology	4

Refrigeration, Heating, & Air Conditioning

Refrigeration, Heating, & Air Conditioning Studies

Diploma (O)

This curriculum is designed to provide the student with practical and theoretical knowledge of refrigeration, heating, and air conditioning systems. These technical courses combine classroom theory with practical hands-on training. Related courses are intended to prepare students for professional and technical career opportunities. A diploma is awarded to students who successfully complete all required technical and related courses. Certificate options are available.

CORE COURSES

<u>Courses</u>		<u>Credits</u>
ENG 101	Crit Thinking & Acad Writing	3
MAT 125	Math for the Trades	4
or		
MAT 150	Business Mathematics	3
PSY 100	Human Relations	3
or		



PSY 121 General Psychology

PROGRAM/MAJOR COURSES

<u>Courses</u>		<u>Credits</u>
ACR 101	HVAC Electricity	5
ACR 102	Fundamentals of Refrigeration	5
ACR 104	Residential Climate Control	5
ACR 105	Residential Heating I	5
ACR 114	EPA Seminar and Exam	1
ACR 120	Employee Development	2
	Seminar	
ACR 150	Industry Competency Exam I	1
ACR 151	Industry Competency Exam II	1

Certificate Programs

CAMPUS KEY: T = Dover; O = Georgetown; S = Stanton; W = Wilmington

<u>Program</u>	<u>Campus</u>
Baking and Pastry Skills Certificate	S,T
Chemical Process Operator Certificate	S
Commercial Transportation Certificate	0
Cooking Certificate	S
Direct Support Professional Certificate	O,T,W
Drug/Alcohol Counseling Certificate	T,W
EMT Paramedic Certificate	Т
ENT: Refrigeration Heating A/C Certificate	0
Early Childhood Leadership	O,T,W
English as a Second Language Certificate	O,T,W
Entrepreneurship Certificate	O,T,W
Instructional Design and Technology Certificate	O,T,S,W
Instrumentation Certificate	S
Machinist Training Level I Certificate	S
Machinist Training Level II Certificate	S
Paralegal Certificate	O,T

3



Culinary Arts

Baking and Pastry Skills Certificate

Certificate (S,T)

Is your favorite room the kitchen and your favorite appliance the stove? If you answered "yes" to both questions, then the one-year Baking and Pastry Skills Certificate offered at Delaware Tech will prepare you for employment in the hospitality industry as an entry-level pastry cook. If you're already an industry professional, you'll learn additional skills to help you advance to a supervisory position. At Delaware Tech, you'll gain experience in the demonstration and skills kitchen, learning the details of culinary arts including food preparation, baking, sanitation, and nutrition.

Courses are offered on a part-time basis, and the 18 credits earned in this program may be applied to the Baking and Pastry Skills Studies Diploma or the Associate Degree in the Culinary Arts or Food Service Management programs. Industry professionals and students will also acquire the mandatory classes required by the American Culinary Federation to begin the certification process.

PROGRAM/MAJOR COURSES

Courses			<u>Credits</u>
CUL	112	Cake Decorating	2
CUL	119	Food Safety and Sanitation	2
CUL	261	Baking	4
CUL	262	Pastry	4

PROGRAM/MAJOR SUPPORT COURSES

<u>Cour</u>	<u>ses</u>		<u>Credits</u>
MGT	148	Culinary Supervisory	3
		Develpmnt	
SCI	141	Nutrition in the Culinary Fld	2

Chemical Process Operator

Chemical Process Operator Certificate

Certificate (S)

Delaware Tech's Chemical Process Operator program prepares highly skilled and knowledgeable students for employment as process operators in the chemical, pharmaceutical, polymer, and petroleum refining industries. These important industries throughout the Delaware River Valley area have a great need for trained process technicians to operate equipment for the production of industrial and consumer products. Graduates are readily employed by these local plants at competitive

salaries. The program provides a practical education in the various aspects of plant operations including safe startup, shutdown, troubleshooting procedures, regulatory compliance, and basic preventive maintenance. And our laboratory facilities include high tech mechanical equipment, modern instrument trainers, computer process simulators, and six pilot plant units.

The Chemical Process Operator Technology Program has three options. Certificate, diploma, and associate degree programs are offered so that students can build their educational credentials as they work in the field. The certificate program requires completion of eight courses equivalent to 25 credit hours.

CORE COURSES

<u>Courses</u>	<u>Credits</u>	
MAT 125	Math for the Trades	4

PROGRAM/MAJOR COURSES

<u>Courses</u>	<u>Credits</u>	
CPO 106	Statistical Procs Cntrl Ovrvw	1
CPO 125	Safety, Health & Environment	3
CPO 135	Chem Proc Tech-Equipment	3
CPO 151	Chem Proc Tech I-Systems	4

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>	<u>Credits</u>
CHM 110 General Chemistry	4
CIS 107 Intro to Computers/Ap	plication 3
ELC 101 Intro to Instrumentation	on 3

Automotive

Commercial Transportation Certificate

Certificate (O)

Do you enjoy the freedom of the open road and want a career that doesn't involved sitting behind a desk? This is a Professional Truck Driver Institute (PTDI) nationally-certified curriculum that combines classroom study with practical experience behind the wheel of diesel-powered tractor trailers on a private training range as well as public streets and highways. You'll also learn the intricacies of handling a variety of truck types and cargo, conducting required inspections, proper reporting and documentation requirements, and trip planning techniques -- all in a small class-size environment.

The Certificate Program is available in flexible combinations of weekday and evening study. You'll earn college credits while gaining the knowledge and skills necessary to earn your CDL "A" operator's



license.

PROGRAM/MAJOR COURSES

<u>Courses</u>		<u>Credits</u>
CTS 101	Fundmentals-Motor Fleet	3
	Safety	
CTS 102	Vehicle Sys/Report Malfunction	2
CTS 103	Tractor Trailer Operations	2
	Road Driving Practices	1
CTS 105	Range Driving Practices	2
CTS 106	Advanced Driving Operations	2
CTS 107	Advanced Driving Practices	1
CTS 108	Professional Driver Developmnt	3

Culinary Arts

Cooking Certificate

Certificate (S)

As a graduate of Delaware Tech's Culinary Arts Cooking Certificate program, you'll have the basic skills necessary to start on a career path to becoming a chef. In the program, you'll learn the fundamentals of food preparation and gain practical experience in basic baking, garde-manger, buffet presentation, and international cuisine. You'll work in the skills development kitchen and take field trips to the kitchens of area hotels and restaurants. The Culinary Arts Cooking Certificate prepares students to join the fast-growing food service industry and obtain a respected position in a career field where these skills are in demand. It's an excellent way to earn the credentials to help you advance through the various opportunities that the industry offers with the final goal of becoming a chef.

Courses are offered on a part-time basis, and the 14 credits earned through this program may be applied to the Kitchen Skills Diploma and ultimately the Associate Degree in the Culinary Arts or Food Service Management. Industry professionals and students will also acquire the mandatory classes required by the American Culinary Federation to begin their certification process. The College is a member of the National Restaurant Association and the American Culinary Federation (ACF), and our program is accredited by the Accreditation Commission of the American Culinary Federation.

PROGRAM/MAJOR COURSES

<u>Courses</u>	<u>Credits</u>	
CUL 119	Food Safety and Sanitation	2
CUL 121	Food Prep I	4
FSM 210	Quantity Food Production	3

PROGRAM/MAJOR SUPPORT COURSES

Cour	<u>ses</u>		<u>Credits</u>
MGT	148	Culinary Supervisory	3
		Develpmnt	
SCI	141	Nutrition in the Culinary Fld	2

Human Services

Direct Support Professional Certificate

Certificate (O,T,W)

Make a difference one life at a time! Today, unlike in the past, most individuals with developmental disabilities live in their home communities and thrive thanks to Direct Support Professionals who help them lead self-directed lives and contribute to their communities. As a student in this program, you'll learn how to provide these individuals support in daily living tasks, community living, health and wellness awareness, vocational experiences, and social integration. While enrolled, you'll earn 12 credit hours from a combination of classroom instruction and field work; courses will include face-to-face and online instruction. The skills and knowledge you learn can be applied to residential programs, day programs, or any combination of services appropriate for the client.

Labor market studies in Delaware indicate new job openings in this field within the next five years, and employers of direct support professionals are strongly encouraging certification. If you're looking for a career that is more than just a job, a Direct Support Professional certificate will prepare you for this challenging but rewarding profession.

PROGRAM/MAJOR COURSES

<u>Courses</u>		<u>Credits</u>
HMS 120	Direct Support/Cmnty Services	3
HMS 124	Comm Living Skills/Supports	3
HMS 125	Assessment and	3
	Communication	
HMS 126	Desgn/Evaluation of Services	3

Human Services

Drug/Alcohol Counseling Certificate

Certificate (T,W)

Alcohol and drug addiction is a major public health problem in America. The consequences are far-reaching and affect individuals, families, and society as a whole. Our program will provide you with an understanding of drug use, abuse, and dependence and the related personal and social consequences. You will develop skills to provide therapeutic services for people dealing with substance abuse, with an emphasis on helping them



maintain recovery and prevent relapse. As a graduate, you will be prepared for entry into the drug and alcohol counseling profession and/or to continue your education at a four-year institution to complete a bachelor's degree. This 18 credit-hour certificate program is designed to supplement an existing associate degree in a relevant area of study.

PROGRAM/MAJOR COURSES

<u>Courses</u>	<u>Credits</u>	
DAC 141	Intro Drug&Alcohol Counseling	3
DAC 225	Drug&Alcohol Counseling II	3
DAC 230	Assessmnt/Trtmnt/D&A	3
	Counsing	
DAC 240	Families & Addiction	3
DAC 244	Dir Practice II-Drug/Alcohol	6

Allied Health

EMT Paramedic Certificate

Certificate (T)

Paramedics provide advanced pre-hospital emergency care under medical command authority to acutely ill or injured patients and transport patients by ambulance or other appropriate emergency vehicles. Delaware Tech's 51-credit certificate program prepares you to recognize, assess, and manage a medical or trauma emergency, record and communicate pertinent data to a designated medical command authority, and direct and coordinate the transport of a patient. Enrollment in the Paramedic Certificate is limited to pre-approved candidates from the Delaware State Police Aviation Section or a County Advanced Life Support Service. Academically ready students can apply to the program following the guidelines of the Allied Health competitive admission process. Interested applicants should review the information provided here and contact their program advisor for application requirements.

PROGRAM/MAJOR COURSES

<u>Courses</u>	<u>Credits</u>	
EMT 200	Intro To Paramedic Technology	5
EMT 201	Patient Assessment	3
EMT 202	Medical Emergencies I	3
EMT 203	ALS Skills Lab I	3
EMT 204	Special Populations	4
EMT 207	Paramedic Clinical I	1
EMT 211	Cardiology	4
EMT 212	Medical Emergencies II	3
EMT 213	ALS Skills Lab II	3
EMT 214	Legal Issues/Research	3
EMT 215	Trauma Emergencies	2
EMT 217	Paramedic Clinical II	3

EMT 227	Paramedic Clinical III	3
EMT 290	Paramedic Field Clinical	4

PROGRAM/MAJOR SUPPORT COURSES

Cour	<u>Credits</u>		
BIO	120	Anatomy and Physiology I	5
BIO	121	Anatomy and Physiology II	5
BIO	130	Disease Proc/Pathophysiology	3
CHM	100	Basic Chemistry	3
or			
СНМ	110	General Chemistry	4

Entrepreneurial

ENT: Refrigeration Heating A/C Certificate

Certificate (O)

Want to start an engaging career? Earning your Refrigeration, Heating, and Air Conditioning Certificate will get you on your way! This curriculum is designed to provide students with the technical and practical knowledge required in the heating, air conditioning, and refrigeration fields at an intermediate level. Classroom studies and hands-on experience prepare certificate recipients for professional career opportunities. Taking part in this 38-39 credit-hour certificate program also offers new advancement options for individuals who are already employed in the field.

Students learn how to design, install, and maintain residential heating and air conditioning systems. The courses taken in this program can also be applied toward the completion of an associate degree.

PROGRAM/MAJOR COURSES

<u>Courses</u>	<u>Credits</u>	
ACR 104	Residential Climate Control	5
ACR 105	Residential Heating I	5
ENT 101	Intro to Entrepreneurship	3
ENT 103	Legal Issues for ENT	3
ENT 104	Opportunity Analysis	3

Early Childhood Education

Early Childhood Leadership

Certificate (O,T,W)

The Early Childhood Leadership (ECL) Certificate is designed to enable graduates to fulfill leadership roles in early childhood education facilities. The program combines studies in best practices including creating an environment that promotes peak performance, optimizing operations to



establish a successful business model, and maintaining a quality family-centered environment for young children. It prepares early childhood care and education professionals to serve as leaders in the early childhood care and education programs. Additionally, this Certificate will prepare graduates to serve as advocates for young children as the state of Delaware undergoes a transformation in its approach to preparing, certifying, recruiting, and retaining high quality teachers of young children.

PROGRAM/MAJOR COURSES

<u>Courses</u>			<u>Credits</u>
ECE	130	Early Childhood Leadership I	3
ECE	131	Early Childhood Leadership II	3
ECE	132	Early Childhood Leadership III	3

Specialized Occupations

English as a Second Language Certificate

Certificate (O,T,W)

The Department of Language & Culture offers courses to meet the varied needs of persons for whom English is not a native language. Students can prepare themselves to enter the workforce or pursue a degree.

In beginning, intermediate and advanced level courses, students develop listening/speaking, grammar, reading and writing skills needed for communication in everyday life. A certificate is awarded for program completion.

Students who complete the ESL Certificate Program and wish to pursue a degree take ESL 100, ESL for Degree Programs, which gives them acceptance into open-entry Associate Degree Programs at Delaware Technical Community College and prepares them for studies in any American college or university.

PROGRAM/MAJOR COURSES

Courses			Credits
ESL	022	Beginning ESL Reading/Vocab	4
ESL	024	Beginning Writing	4
ESL	026	Beginning Grammar/Comm	8
ESL	028	Beginning Listenng/Speakng	4
ESL	032	Intermediate Reading	4
ESL	034	Intermediate Writing	4
ESL	036	Intermediate Grammar/Comm	8
ESL	038	Intermediate Listening/Speakng	4
ESL	042	Advanced ESL Reading	4
ESL	044	Advanced ESL Writing	4
ESL	046	Advanced	8
		Grammar/Communication	

ESL 048 Advanced Listening/Speaking

Entrepreneurial

Entrepreneurship Certificate

Certificate (O,T,W)

If you have a desire to be your own boss and have your own business, the Entrepreneurship Program is for you! Now you can explore this opportunity and get credit for it by earning an Introduction to Entrepreneurship Certificate.

4

Starting and operating a business takes a lot of effort and know-how. The Intro to Entrepreneurship Certificate Program offers the foundational basics of taking your passion and turning it into a business. This certificate is designed to augment the degrees earned in other academic and technical programs. Whether you are in health care, automotive, refrigeration-heating-air conditioning, agriculture, or any other career vocation, you can learn the basic skills of how to launch your business. By successfully completing 15 credit hours in five specialized courses in the Entrepreneurship curriculum including topics of legal issues, funding and finance, and business plan development, you can earn an Entrepreneurship Certificate. Courses will include face-to-face and online instruction.

Although this certificate is designed to augment other degrees earned in other academic and technical programs, you may seek this introductory certificate to gain the basics of entrepreneurship without pursuing another degree, in which case some prerequisites may be required.

This certificate will help you take your profession or vocation through the initial steps to turn it into a viable business. As an entrepreneur, you can be self-employed or become a job creator for others!

PROGRAM/MAJOR COURSES

<u>Courses</u>		
Legal Issues for ENT	3	
ENT Business Process	3	
Business Plan Development	3	
Opportunity Analysis	3	
Principles of Marketing	3	
Funding & Finance for ENT	3	
Leadership	3	
	ENT Business Process Business Plan Development Opportunity Analysis Principles of Marketing Funding & Finance for ENT	

Instructional Design and Technology

123 / 150



Instructional Design and Technology Certificate

Certificate (O,T,S,W)

Successfully preparing instructors to be effective users of educational technology is a critical component in helping to solve many of our current educational challenges. The adoption of new and emerging technologies within academia has only continued to grow and offers even more reason to be hopeful. This program prepares instructors to be better able to help their students comprehend difficult-to-understand concepts, engage in active learning, access information and resources, and meet their individual needs. The effective use of technology has proven to enhance learning, as well as improve student engagement and achievement.

The mission of the 15-credit Instructional Design and Technology Certificate program is to prepare educators to design, develop, deliver, and evaluate engaging educational opportunities and experiences to promote student success. The program enables educators to effectively employ emergent technologies in a variety of modes and settings.

PROGRAM/MAJOR COURSES

Cour	ses		Credits
IDT	G21	Instructional Design	2
IDT	G22	Foundational Technologies	2
IDT	G31	Teaching with Technology	2
Sele	ct cou	ırse(s) from:	
IDT	G07	Modem Classroom	2
		Management	
IDT	G12	Tech Enabled Assess Strategies	1
IDT	G26	Advanced Classroom	2
		Technology	
IDT	G32	Implementing Eff. Learning	2
		Com	
IDT	G36	Educational Document Control	1
IDT	G39	Virtual Learning Env in Ed	1
IDT	G43	Crtve Cmns, Fair Use, & Cpyrt	1
IDT	G47	Psych of the Online Learner	2
IDT	G58	Fundamentals of Acad Advmnt	2
IDT	G59	Instructional Strategies	2
IDT	G63	ePortfolio Design	1
IDT	G82	e-books and Digital Readers	1
IDT	G86	Synchronous Tech in Teaching	1
IDT	G88	Leveraging Soc'l Media for Lrn	2
IDT	G99	Special Topic in Ed Technology	1

Electronic Engineering Technology

Instrumentation Certificate

Certificate (S)

If you're interested in a career as a process operator or instrument sales representative, the Instrumentation Certificate is designed to provide you with an introduction to the technical and practical knowledge required in this field. Classroom studies and hands-on experience in this program will prepare you for real-life applications. Taking part in this 15 credit-hour certificate program also offers advancement options if you are already employed in the field; or you could choose to continue your studies to obtain an associate degree, preparing you to be an instrument engineering technician. A career in this field may lead you to work in the chemical processing, food processing, oil and gas production, eneray production industries, or other highly technical fields. You could be involved in the installation, calibration, and maintenance of electronic, digital, and pneumatic equipment, as well as the development of procedures for maintenance and problem solving.

PROGRAM/MAJOR COURSES

Courses			<u>Credits</u>
ELC	101	Intro to Instrumentation	3
ELC	270	Process Instrumentation I	4

PROGRAM/MAJOR SUPPORT COURSES

<u>Courses</u>		<u>Credits</u>
PHY 111	Conceptual Physics	4
or		
PHY 205	General Physics I	4

Mechanical Engineering Technology

Machinist Training Level I Certificate

Certificate (S)

The creative work of designing and making tools from such diverse materials as metal, wood, or plastic requires patience, knowledge, and organization -- skills that are supported by the Delaware Tech Machinist Training Certificate program. In this program you will learn through classroom and hands-on instruction in a modern machine shop facility. You will become proficient in modern manufacturing techniques, 3D computer modeling, 2D drafting, and practical machine shop practices.

Well-trained machinists are in demand in the job market. Upon completion of this certificate program, you will increase your manufacturing job skills to help you gain a rewarding entry level position in a manufacturing environment. This certificate can be earned by successfully completing 16 credit hours through full- or part-time study, in the day or the



evening.

CORE COURSES

<u>Courses</u> <u>Credits</u> MAT 140 Essentials of College Algebra 4

PROGRAM/MAJOR COURSES

Courses		<u>Credits</u>
EDD 131	Engineering Graphics/CAD	3
MET 123	Modern MFG Techniques	3
NCN 105	Machine Shop Practicum I	4

Mechanical Engineering Technology

Machinist Training Level II Certificate

Certificate (S)

Machinist and skilled manufacturing professionals are in demand. The level II certificate will give you the hands-on skills that companies are looking for. You will learn through classroom and practical instruction in a modern machine shop facility. You will become proficient in geometric dimensioning and tolerancing, modern manufacturing techniques, numerical control machining, computer applications, and advanced manufacturing techniques. In addition, you will learn the finer points of manufacturing and machining.

Upon completion of this certificate program, you will be an accomplished and knowledgeable machinist prepared with the job skills you need for a rewarding position in a manufacturing environment. This certificate can be earned by successfully completing 13 credit hours through full- or part-time study, in the day or the evening.

PROGRAM/MAJOR COURSES

Courses		Credits
MET 125	Adv Manufacturing Techniques	3
MET 235	Computer Nmrcl Cntrl	4
	Machining	
NCN 104	Geometric	2
	Dimension/Tolerance	
NCN 106	Machine Shop Practicum II	4

Paralegal

Paralegal Certificate

Certificate (O,T)

The Paralegal Certificate is available to students with

an underlying associate or bachelor's degree in any discipline who are looking to further their education and gain specialized knowledge in the legal field. The certificate program is designed to prepare graduates to find employment in law firms, federal, state, and local agencies, the court system, banks, and private businesses. Students in the certificate program take a minimum of 24 credits in courses focusing on the structure and organization of the American legal system, basic principles of law and legal research, and various areas of substantive law. In addition, students may have the opportunity to complete an internship to supplement their classroom studies with relevant work experience. Paralegals may not provide legal services directly to the public except as provided by law.

PROGRAM/MAJOR COURSES

Cour	ses		Credits
PLG	170	Intro to the Legal System	3
PLG	280	Legal Research & Writing	3
PLG	285	Law Office Mgmt & Procedures	3
or			
PLG	290	Paralegal Internship	4
Select 5 course(s) from:			
PLG	160	Family Law	3
PLG	172	Law of Simple Contracts	3
PLG	175	Estate Admin and Probate	3
PLG	270	Criminal Law/Invest Procedures	3
PLG	271	Real Property Law	3
PLG	273	Civil Procedure	3
PLG	274	Torts	3
PLG	276	Business Entities	3



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